

UMDNJ	University of Medicine and Dentistry of New Jersey
GSBS	Graduate School of Biomedical Sciences
NJDS	New Jersey Dental School
NJMS	New Jersey Medical School
RWJMS	Robert Wood Johnson Medical School
SHRP	School of Health Related Professions
SN	School of Nursing
SOM	School of Osteopathic Medicine
SPH	School of Public Health
UH	University Hospital
UBHC	University Behavioral HealthCare

INTRODUCTION

The University of Medicine and Dentistry of New Jersey is a public research university dedicated to excellence in the health sciences. A true statewide asset, the institution serves the people of New Jersey through its unique four-pronged mission of education, research, healthcare, and community service.

Comprised of eight schools – encompassing the medical, dental, allied health, nursing, public health and biomedical sciences disciplines – as well as a leading academic medical center and a statewide network of mental health providers, UMDNJ touches the lives of millions annually. Since our founding as the College of Medicine and Dentistry in 1970, we have made great strides in both scholarship and service. Our diverse faculty, staff and students continue to build on this momentum, strengthening our academy and our commitment to our state and its communities.

As president, I am proud of our accomplishments and confident that our successes as educators and innovators, and our contributions to enhancing the health and quality of life of New Jerseyans, will only accelerate in the future. We present this report to the Commission on Higher Education and to our public constituencies with the hope that this material will be informative and useful.

A handwritten signature in black ink that reads "William F. Owen, Jr." with a period at the end. The signature is written in a cursive style.

William F. Owen, Jr., MD
President

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MISSION STATEMENT

The University of Medicine and Dentistry of New Jersey (UMDNJ), the state's university of the health sciences, is dedicated to the pursuit of excellence in:

- the undergraduate, graduate, postgraduate and continuing education of health professionals and scientists;
- the conduct of biomedical, psychosocial, clinical and public health research;
- health promotion, disease prevention and the delivery of health care; and
- service to our communities and the entire state.

Providing educational, research and service programs at campuses in Camden, New Brunswick/Piscataway, Newark, Scotch Plains and Stratford, in communities throughout the state, and nationally and internationally through advanced communication and information technologies, UMDNJ seeks to meet the needs of our diverse constituencies and improve the health and quality of life of the citizens of New Jersey and society at large.

*Approved by the Board of Trustees
March 18, 2003*

GOVERNANCE

The governance of the University is vested in a 20-member Board of Trustees. Nineteen voting trustees are appointed by the Governor, with the advice and consent of the Senate, for a term of five years. Board of Trustees members serve until their successors are sworn in. The Commissioner of Health and Senior Services serves *ex-officio*, without vote. The Board has the power to appoint committees from its members and to regulate the duties, functions and procedures of the committees, standing or special, and such advisory committees or bodies as it deems necessary to conduct the efficient management and operation of the University, consistent with the laws of the state. Among its various powers, the Board of Trustees has authority to:

- determine educational policies and programs of the University and approve the educational curricula of the various Schools;
- study the educational and financial needs of the University, and annually acquaint the Governor and Legislature with the condition of the University;
- appoint the president of the University and appoint, upon nomination by the president, such deans, vice presidents and faculty as shall be required;
- fix and determine tuition rates and other fees to be paid by students;
- acquire, dispose of, use and operate property, whether real, personal or mixed or any interest therein, that is necessary or desirable for University purposes;
- borrow money for the needs of the University; and
- exercise the right of eminent domain pursuant to the provisions of the Eminent Domain Act of 1971 to acquire any property or interest therein.

A complete list of the powers and duties of the Board is found in P.L. 1985, chapter 514, section 1 (N.J.S.A. 18A:64G-6 and 7).

The governance of UMDNJ-University Hospital is vested in a 9-member separate board of directors.

BOARD OF TRUSTEES

http://www.umdnj.edu/about/about04_trustees.htm

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Heather Howard, JD

*Commissioner, New Jersey Department of Health and Senior Services
(ex officio, non-voting)*

OFFICERS OF THE UNIVERSITY

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Senior Vice President and General Counsel

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*Interim Senior Vice President for Administration and
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Vice President for Research

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Interim President and CEO of UMDNJ-University Hospital

Freda Zackin, Esq.
Interim Vice President for Academic Affairs

DEANS

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Dean, UMDNJ-School of Osteopathic Medicine

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Dean, UMDNJ-New Jersey Dental School

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Dean, UMDNJ-School of Health Related Professions

Audrey R. Gotsch, DrPH

Dean, UMDNJ-School of Public Health

Robert L. Johnson, MD

Interim Dean, UMDNJ-New Jersey Medical School

Susan W. Salmond, EdD, RN

Interim Dean, UMDNJ-School of Nursing

Kathleen W. Scotto, PhD

Interim Dean, UMDNJ-Graduate School of Biomedical Sciences

PROFILE OF UMDNJ

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SCHOOLS

UMDNJ-Graduate School of Biomedical Sciences (GSBS)

GSBS at New Jersey Medical School

30 Bergen Street, ADMC 110
Post Office Box 1709
Newark, New Jersey 07101-1709

GSBS at Robert Wood Johnson Medical School

675 Hoes Lane
Piscataway, New Jersey 08854-8021

GSBS at School of Osteopathic Medicine

42 East Laurel Road
University Doctors Pavilion
Suite 2200
Stratford, New Jersey 08084-1350

UMDNJ-New Jersey Dental School (NJDS)

110 Bergen Street
Post Office Box 1709
Newark, New Jersey 07101-1709

UMDNJ-New Jersey Medical School (NJMS)

185 South Orange Avenue
Post Office Box 1709
Newark, New Jersey 07101-1709

UMDNJ-Robert Wood Johnson Medical School (RWJMS)

Piscataway Campus

675 Hoes Lane
Piscataway, New Jersey 08854-5635

New Brunswick Campus

Clinical Academic Building
125 Paterson Street
New Brunswick, New Jersey 08903-0019

Medical Education Building
1 Robert Wood Johnson Place
New Brunswick, New Jersey 08903

Camden Campus

401 Haddon Avenue
Camden, New Jersey 08103-1506

UMDNJ-School of Health Related Professions (SHRP)

Newark Campus

65 Bergen Street
Post Office Box 1709
Newark, New Jersey 07101-1709

Scotch Plains Campus

1776 Raritan Road
Scotch Plains, New Jersey 07076-2997

Stratford Campus

University Educational Center
40 East Laurel Road
Stratford, New Jersey 08084-1350

Piscataway Campus

675 Hoes Lane
Piscataway, New Jersey 08854-5635

UMDNJ-School of Nursing (SN)

Newark Campus

65 Bergen Street, 11th Floor
Post Office Box 1709
Newark, New Jersey 07101-1709

Stratford Campus

University Educational Center
40 East Laurel Road
Stratford, New Jersey 08084-1350

UMDNJ-School of Osteopathic Medicine (SOM)

Academic Center
One Medical Center Drive
Stratford, New Jersey 08084-1501

UMDNJ-School of Public Health (SPH)

New Brunswick Campus

335 George Street
Liberty Plaza, Suites 2200, 3600, 3700
Post Office Box 2688
New Brunswick, New Jersey 08903

Tobacco Dependence Program
317 George Street, Suite 210
New Brunswick, New Jersey 08903

Piscataway Campus

683 Hoes Lane West
Piscataway, New Jersey 08854-5635

Newark Campus

65 Bergen Street
Post Office Box 1709
SSB, Room 701
Newark, New Jersey 07101-1709

225 Warren Street
Newark, New Jersey 07103-3535

Stratford/Camden Campus

University Educational Center
40 East Laurel Road, Suite 1114
Stratford, New Jersey 08084-1350

DEGREE AND CERTIFICATE PROGRAMS

<i>Field</i>	<i>Degree/Certificate</i>	<i>UMDNJ School(s)</i>	<i>Partner Institution (if any)</i>
Medicine	MD	NJMS	
	MD	RWJMS	
	DO	SOM	
Dentistry/Dental Science	DMD	NJDS	
	MS	NJDS	
	Master	NJDS	
Graduate Dental Education*	Certificate	NJDS	
Biomedical Sciences**	PhD	GSBS	
	PhD	GSBS	Rutgers University
	MS, Master	GSBS	
	MS	GSBS	Rutgers University
	Certificate	GSBS	
Biomedical Engineering	PhD, MS	GSBS	Rutgers University
	PhD	GSBS	NJIT
Environmental Sciences - Human Exposure Assessment	PhD	GSBS	Rutgers University
Public Health	PhD	SPH	Rutgers University
	DrPH	SPH	Rutgers University
	MPH	SPH	Rutgers University and NJIT
	Certificate	SPH	
Biostatistics	MS	SPH	
Health Care Management	MS	RWJMS	Rutgers University
Urban Systems - Urban Health	PhD	SN	Rutgers University and NJIT
Nursing Practice	DNP	SN	
Advanced Practice Nursing	Post-master's Certificate	SN	

* Includes Endodontics, Oral Medicine, Orthodontics, Pediatric Dentistry, Periodontics and Prosthodontics.

** Includes Anatomy, Biochemistry, Cell & Developmental Biology, Cellular & Molecular Pharmacology, Microbiology & Molecular Genetics, Molecular Pathology & Immunology, Neurosciences, Oral Biology, Pharmacology, Physiology, Physiology & Integrative Biology, Stem Cell Biology, and Toxicology.

Field	Degree/Certificate	UMDNJ School(s)	Partner Institution (if any)
Nursing	MSN	SN	
	BSN	SN	
	BSN	SN	Rowan University
Nursing Informatics	MSN	SN	NJIT
Allied Health Technologies	BS	SHRP	
	BS	SHRP	Bloomfield College Fairleigh Dickinson University Felician College Georgian Court New Jersey City University Ramapo College of NJ Rutgers University
Biomedical Informatics	PhD	SHRP	
	MS	SHRP	
Clinical Laboratory Sciences	BS	SHRP	
	BS	SHRP	Bloomfield College Caldwell College College of Saint Elizabeth Fairleigh Dickinson University Felician College Georgian Court College New Jersey City University Monmouth University Ramapo College of NJ Rutgers University Saint Peter's College
Clinical Nutrition	DCN	SHRP	
	MS	SHRP	
Cytotechnology	Certificate	SHRP	
Dental Assisting	Certificate	SHRP	
	Certificate	SHRP	Essex County College Union County College Brookdale Community College Raritan Valley Community College Thomas Edison State College

<i>Field</i>	<i>Degree/Certificate</i>	<i>UMDNJ School(s)</i>	<i>College</i> <i>Partner Institution (if any)</i>
Dental Hygiene	AAS	SHRP	Essex County College Union County College Brookdale Community College Raritan Valley Community College Thomas Edison State College
Diagnostic Imaging Technologies	Certificate	SHRP	
Diagnostic Medical Sonography	Certificate	SHRP	
Dietary Management	Certificate	SHRP	Essex County College
Dietetic Internship	MS/Certificate	SHRP	Rutgers University (MS)
Health Care Informatics	Certificate	SHRP	
Health Information Management	Certificate BS	SHRP SHRP	Kean University
Health Sciences	PhD MS BS	SHRP SHRP SHRP	New Jersey City University Thomas Edison State College
Health Systems	MS	SHRP	
Medical Coding	Certificate	SHRP	
Medical Laboratory Science	Certificate	SHRP	
Nuclear Medicine Technology	Certificate	SHRP	
Physical Therapy	DPT DPT MPT	SHRP SHRP SHRP	Rutgers University Rutgers University
Physician Assistant	MS	SHRP	
Professional Counseling	Certificate	SHRP	
Psychiatric Rehabilitation	PhD MS	SHRP SHRP	
Psychiatric Rehabilitation & Psychology	BS	SHRP	Felician College Kean University

<i>Field</i>	<i>Degree/Certificate</i>	<i>UMDNJ School(s)</i>	<i>Partner Institution (if any)</i>
Psychosocial Rehabilitation & Treatment	AS	SHRP	Cumberland County College Felician College Middlesex County College Union County College Warren County Community College
Radiologist Assistant	MS	SHRP	
Rehabilitation Counseling	MS	SHRP	
Respiratory Care	AS	SHRP	Essex County College Hudson County Community College Middlesex County College Raritan Valley Community College Union County College Warren County Community College
Respiratory Therapy	AAS	SHRP	Atlantic Cape Community College Burlington County College Camden County College Cumberland County College Gloucester County College Salem Community College
	Certificate	SHRP	
Vascular Technology	Certificate	SHRP	

DUAL-DEGREE PROGRAMS

<u>Degree/Certificate</u>	<u>UMDNJ School(s)</u>	<u>Partner Institution (if any)</u>
MD/PhD	NJMS/GSBS RWJMS/GSBS NJMS RWJMS	Rutgers University Rutgers University Princeton University
DO/PhD	SOM/GSBS	
DMD/PhD	NJDS/GSBS	
MD/MPH	NJMS/SPH RWJMS/SPH	Rutgers University and NJIT Rutgers University and NJIT
MD/MBA	RWJMS NJMS	Rutgers University Rutgers University
MD/JD	RWJMS RWJMS NJMS	Rutgers University Seton Hall University Rutgers University
MD/MS in Biomedical Informatics	RWJMS/SHRP	
MD/MS in Health Care Management	RWJMS	Rutgers University
MD/MSJ	RWJMS	Seton Hall University
MD/Certificate in Oral & Maxillofacial Surgery	NJMS/NJDS	
DO/MPH	SOM/SPH	Rutgers University and NJIT
DO/JD	SOM	Rutgers University

<i>Degree/Certificate</i>	<i>UMDNJ School(s)</i>	<i>Partner Institution (if any)</i>
DO/MBA	SOM	Rowan University
DO/MS	SOM/GSBS	
DMD/MPH	NJDS/SPH	Rutgers University and NJIT
DMD/MS in Biomedical Informatics	SHRP/NJDS	
PsyD/MPH	SPH	Rutgers University and NJIT
MS in Community Health Nursing/MPH	SPH	Rutgers University and NJIT
MSN/MPH	SN/SPH	Rutgers University and NJIT
MS in Biomedical Informatics/ Certificate in Graduate Dental Education	SHRP/NJDS	
MS in Oral Biology/GDE Certificate	GSBS/NJDS	
Master of Biomedical Science/MPH	GSBS/SPH	Rutgers University and NJIT
MPH/JD	SPH	Rutgers University
MPH/MS in Physician Assistant	SPH/SHRP	Rutgers University and NJIT
MPH/MBA	SPH	Rutgers University and NJIT
MBA/MS	GSBS	Rutgers University

ARTICULATED EDUCATIONAL PROGRAMS

UMDNJ-NEW JERSEY MEDICAL SCHOOL

- BA/MD program with Boston University. Seven-year program.
- BS/MD program with Stevens Institute of Technology. Seven-year program.
- BS/MD program with New Jersey Institute of Technology. Seven-year program.
- BS/MD program with The College of New Jersey. Seven-year program.
- BS/MD program with The Richard Stockton College of New Jersey. Seven-year program.
- BA or BS/MD program with Drew University. Seven-year program.
- BS/MD program with Montclair State University. Seven-year program.
- BS/MD program with Montclair State University. Eight-year program.
- BA or BS/MD program with Rutgers, The State University of New Jersey-Newark College of Arts and Sciences. Seven-year program.
- BA or BS/MD program with Rutgers, The State University of New Jersey-Newark College of Arts and Sciences. Eight-year program.
- BS/MD program with St. Peter's College. Seven-year program.

UMDNJ-ROBERT WOOD JOHNSON MEDICAL SCHOOL

- BA or BS/MD program with Rutgers, The State University of New Jersey (any school on any campus). Eight-year program (can be accelerated to seven years).
- BA or BS/MD program with The Richard Stockton College of New Jersey. Eight-year program.
- BA or BS/MD program with Rutgers, The State University of New Jersey (New Brunswick campus) (ACCESS-MED). Eight-year program.
- BA or BS/MD program with Seton Hall University (ACCESS-MED). Eight-year program.

UMDNJ-NEW JERSEY DENTAL SCHOOL

- BS/DMD program with Stevens Institute of Technology. Seven-year program.
- BS/DMD program with New Jersey Institute of Technology. Seven-year program.

- BS/DMD program with Rowan University. Seven-year program.
- BS/DMD program with New Jersey City University. Seven-year program.
- BS/DMD program with The Richard Stockton College of New Jersey. Seven-year program.
- BS/DMD program with Ramapo College of New Jersey. Seven-year program.
- BS/DMD program with Fairleigh Dickinson University. Seven-year program.
- BS/DMD program with Montclair State University. Seven-year program.
- BS/DMD program with New Jersey Institute of Technology. Eight-year program.
- BS/DMD program with Caldwell College. Seven-year program.
- BS/DMD program with Caldwell College. Eight-year program.
- Baccalaureate/DMD program with Saint Peter's College. Seven-year program.
- Baccalaureate/DMD program with Rutgers, The State University of New Jersey. Seven- or eight-year program.
- BA/DMD program with New Jersey City University. Seven- or eight-year program.
- Baccalaureate/DMD program with North Carolina Central University. Seven- or eight-year program.

UMDNJ-SCHOOL OF OSTEOPATHIC MEDICINE

- BA or BS/DO program with The Richard Stockton College of New Jersey. Eight-year program.
- BA or BS/DO program with Kean University of New Jersey. Eight-year program.
- BA or BS/DO program with William Paterson University of New Jersey. Eight-year program.
- BA or BS/DO program with Ramapo College of New Jersey. Eight-year program.
- BA or BS/DO program with Rowan University. Eight-year program.
- BA or BS/DO program with New Jersey City University. Eight-year program.
- BA or BS/DO program with The Richard Stockton College of New Jersey. Seven-year program.

- Baccalaureate/DO program with Rutgers, The State University of New Jersey-Camden. Seven-year program.
- Baccalaureate/DO program with Rowan University. Seven-year program.

UMDNJ-GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

- BA or BS/PhD program with New Jersey City University.
- BS/PhD program with Montclair State University.
- MS/PhD program with Montclair State University.
- MS/PhD program with University of Puerto Rico, Mayagüez Campus.

UMDNJ-SCHOOL OF PUBLIC HEALTH

- BS/MPH and BA/MPH program with Rutgers, The State University of New Jersey.
- BS/MPH program with William Paterson University.

UMDNJ-SCHOOL OF HEALTH RELATED PROFESSIONS

- AS/BS/MS in Psychosocial Rehabilitation & Treatment /Psychiatric Rehabilitation & Psychology/Psychiatric Rehabilitation program with: Middlesex County College (joint AS with UMDNJ), Kean University (joint BS with UMDNJ), Felician College (AS and BS with UMDNJ) and Union County College (AS with UMDNJ).
- BS/MS in Physician Assistant program with Montclair State University.
- BS/MS in Physician Assistant program with Rutgers University.
- BA in Biology/MS in Physician Assistant program with Kean University. Six-year program.
- BS/MS in Physician Assistant program with New Jersey Institute of Technology. Six-year program.
- BS/Doctor of Physical Therapy program with Kean University (formerly BS/MSPT program).
- BS/Doctor of Physical Therapy program with Ramapo College of New Jersey (formerly BS/MSPT program).
- BS/Doctor of Physical Therapy program with Montclair State University.
- BS/Doctor of Physical Therapy program with Felician College.
- BS/Doctor of Physical Therapy program with William Paterson University.

- BA/Doctor of Physical Therapy program with Yeshiva University. Seven-year program.
- BS/Doctor of Physical Therapy program with Fairleigh Dickinson University. Six-year program.
- BS/Doctor of Physical Therapy program with New Jersey Institute of Technology. Six-year program.
- BS/MS in Biomedical Informatics with Ramapo College of New Jersey. Six-year program.

UMDNJ-SCHOOL OF NURSING

- ASN/BSN program with New Jersey Institute of Technology (joint BSN with UMDNJ).
- AS plus diploma in nursing/BSN program with Camden County College (AS), Our Lady of Lourdes School of Nursing (diploma) and New Jersey Institute of Technology (joint BSN with UMDNJ).
- AS plus diploma in nursing/BSN program with Camden County College (AS), Helene Fuld School of Nursing (diploma) and New Jersey Institute of Technology (joint BSN with UMDNJ).

**SPECIAL/ENRICHMENT/PREPARATORY/INTERNSHIP/
EXTERNSHIP PROGRAMS**

Program	UMDNJ School(s)/Unit(s)
Undergraduate Summer Student Research Programs	GSBS/NJDS/NJMS/SOM/RWJMS
Early Start Mentoring Program for Children at Risk at Newark (K – 2nd grade)	NJMS
Freshman Introduction to Resources, Skills and Training (FIRST) (pre-matriculated medical students)	NJMS
National Heart Lung and Blood Institute Short Term Minority Research Apprentice Program (undergraduate and graduate students)	NJMS
Pre-Medical Honors Program (Mini-Med, open to persons high school and above)	NJMS
Science, Medicine & Related Topics (SMART) (5th -12th grade)	NJMS
Success in Sciences (SIS)/Project Beck Two-Year Community College Transfer and Post-Baccalaureate Program in conjunction with Rutgers-New Brunswick (undergraduate college students)	NJMS
Summer Experience in Research for Minority Students (SERMS) (college freshmen and sophomores)	NJMS
Summer Medical & Dental Education Program (SMDEP) (undergraduate college students)	NJMS/NJDS
Decision-for-Dentistry (high school students)	NJDS
Dental Exploration Program (7th and 8th grades)	NJDS
Gateway to Dentistry (undergraduate college students)	NJDS
Clinical Psychology Internship Program	UBHC-Newark
University Behavioral HealthCare Practica	UBHC-Piscataway
Biomedical Careers Program (college students)	RWJMS
Clinical Internship Program (college students)	RWJMS

<i>Program</i>	<i>UMDNJ School(s)/Unit(s)</i>
Continuing Umbrella for Research Education (CURE) (high school and college students)	RWJMS
Health Sciences Academy (high school seniors from Camden)	RWJMS
Human Sexuality Program (graduate students)	RWJMS
Mini Medical School (high school students)	RWJMS
Neuroscience Undergraduate Summer Research Program	RWJMS
Pipeline Program	RWJMS/GSBS
Pre-Matriculation Summer Program (pre-matriculated medical students)	RWJMS
Promise Charter School Mentoring Program (middle school students in Camden)	RWJMS
Research in Science & Engineering Program (RISE) (undergraduate college students)	RWJMS/GSBS
Summer Science Scholars Academy (high school students)	RWJMS
Mini Medical School (community members interested in health sciences and/or medical school)	SOM
National Youth Leadership Forum on Medicine (10 th - 12 th grade)	SOM
Pre-Matriculation Summer Program (pre-matriculated SOM students)	SOM
Prep - A College Science Summer Enrichment Program (undergraduate EOF students)	SOM
ShaD.O.w Program (high school students)	SOM
The UMDNJ-SOM Medical Science Academy (12 th grade honor students)	SOM/SHRP
Educational Opportunity Fund Program (disadvantaged college students)	SHRP
Health Science Careers Program (high school students)	SHRP
Pre-College Program – Newark Area (7 th – 12 grade)	SHRP

Program	UMDNJ School(s)/Unit(s)
Urban Scholars Program (graduating 12 th graders)	SHRP
Center for Academic Success Enrichment Programs (matriculated graduate and undergraduate students)	SN
Bridge to the Doctoral Degree	GSBS
Combined Clinical Residency/PhD Program	GSBS/NJMS
International Graduate Student Research Education Program	GSBS
Science Enrichment Program (high school students)	GSBS/NJMS
Advanced Decision Making (9 th - 12 th grade)	SPH
BIO CONNECT (Biology & Cancer Online Education Connecting Teens) (9 th – 12 th grade)	SPH
Environmental Decision Making (9 th - 12 th grade)	SPH
Healthy Environment - Healthy Me (K - 6 th grade)	SPH
Impacting Lives Everyday: Public Health in the Classroom (9 th – 12 th grade)	SPH
Occupational Health Awareness (vocational school students)	SPH
SUC₂ES₂ (Students Understanding Critical Connections Between the Environment, Society and Self) with Woodbridge Township School District (2 nd , 5 th and 7 th grades)	SPH
The Environment and the Community (9 th - 12 th grade)	SPH
ToxRAP™ (Toxicology, Risk Assessment & Pollution) (K - 9 th grade)	SPH

ACCREDITING AGENCIES

The University is accredited by the Middle States Commission on Higher Education. The University's Schools, educational programs and post-graduate training programs are also accredited where pertinent accrediting agencies exist (see list below).

<i>School/Program</i>	<i>Accrediting Agency</i>
UMDNJ	Middle States Commission on Higher Education
NJDS - DMD	Commission on Dental Accreditation (CODA) of the American Dental Association
NJDS - dental residency programs & postgraduate certificates	Commission on Dental Accreditation (CODA) of the American Dental Association or American Board of Oral Medicine
NJMS - MD	Liaison Committee on Medical Education (LCME)
RWJMS - MD	Liaison Committee on Medical Education (LCME)
NJMS & RWJMS - allopathic residency programs	Accreditation Council for Graduate Medical Education (ACGME)
SN - BSN, MSN	National League for Nursing Accrediting Commission (NLN)
SN - MSN, Nurse Anesthesia Track	Council on Accreditation of Nurse Anesthesia Educational Programs (COA)
SN - MSN Women's Health Nurse Practitioner Track	National Association of Nurse Practitioners for Reproductive Health (NANPRH)
SN - Nurse Midwifery	American College of Nurse Midwives (ACNM)
SOM - DO	American Osteopathic Association (AOA)
SOM - osteopathic internship & residency programs	American Osteopathic Association (AOA)
SPH - PhD, DrPH, MS, MPH	Council on Education for Public Health (CEPH)
<u>SHRP Programs:</u>	
Cytotechnology	Commission on Accreditation of Allied Health Education Programs (CAAHEP)

<i>School/Program</i>	<i>Accrediting Agency</i>
Dental Assisting	Commission on Dental Accreditation (CODA) of the American Dental Association
Dental Hygiene	Commission on Dental Accreditation (CODA) of the American Dental Association
Diagnostic Medical Sonography	Commission on Accreditation of Allied Health Education Programs (CAAHEP)
Dietetic Internship	Commission on Accreditation for Dietetics Education (CADE)
Coordinated Dietetic Program	Commission on Accreditation for Dietetics Education (CADE)
Health Information Management	Commission on Accreditation for Health Informatics and Information Management Education
Medical Laboratory Science	National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
Nuclear Medicine Technology	Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCEPNMT)
Physical Therapy	Commission on Accreditation in Physical Therapy Education (CAPTE/APTA)
Physician Assistant	Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)
Radiologist Assistant	American Registry of Radiologic Technologists (AART)
Rehabilitation Counseling	Council on Rehabilitation Education (CORE)
Respiratory Therapy	Commission on Accreditation of Allied Health Education Programs (CAAHEP)
Vascular Technology	Commission on Accreditation of Allied Health Education Programs (CAAHEP)

UMDNJ MEDICAL / DENTAL FIRST-YEAR TUITION HISTORY

ACADEMIC YEAR	RESIDENT TUITION	% INCREASE IN RESIDENT TUITION	NON-RESIDENT TUITION	% INCREASE IN NON-RESIDENT TUITION
1971 - 1972	\$750	--	\$1,000	--
1972 - 1973	\$1,100	46.67%	\$1,750	75.00%
1973 - 1974	\$1,100	0.00%	\$1,750	0.00%
1974 - 1975	\$1,100	0.00%	\$1,750	0.00%
1975 - 1976	\$1,750	59.09%	\$3,000	71.43%
1976 - 1977	\$3,000	71.43%	\$4,000	33.33%
1977 - 1978	\$4,000	33.33%	\$5,000	25.00%
1978 - 1979	\$4,000	0.00%	\$5,000	0.00%
1979 - 1980	\$4,500	12.50%	\$5,625	12.50%
1980 - 1981	\$5,000	11.11%	\$6,240	10.93%
1981 - 1982	\$5,500	10.00%	\$6,875	10.18%
1982 - 1983	\$6,325	15.00%	\$7,905	14.98%
1983 - 1984	\$6,825	7.91%	\$8,530	7.91%
1984 - 1985	\$7,175	5.13%	\$8,965	5.10%
1985 - 1986	\$7,535	5.02%	\$9,860	9.98%
1986 - 1987	\$8,000	6.17%	\$10,500	6.49%
1987 - 1988	\$8,250	3.13%	\$10,825	3.10%
1988 - 1989	\$8,660	4.97%	\$11,365	4.99%
1989 - 1990	\$9,093	5.00%	\$11,933	5.00%
1990 - 1991	\$10,457	15.00%	\$13,723	15.00%
1991 - 1992	\$11,053	5.70%	\$14,505	5.70%
1992 - 1993	\$11,550	4.50%	\$15,158	4.50%
1993 - 1994	\$12,128	5.00%	\$15,916	5.00%
1994 - 1995	\$12,795	5.50%	\$16,791	5.50%
1995 - 1996	\$13,295	3.91%	\$17,445	3.89%
1996 - 1997	\$14,492	9.00%	\$22,679	30.00%
1997 - 1998	\$14,927	3.00%	\$23,359	3.00%
1998 - 1999	\$15,509	3.90%	\$24,270	3.90%
1999 - 2000	\$16,052	3.50%	\$25,119	3.50%
2000 - 2001	\$16,694	4.00%	\$26,124	4.00%
2001 - 2002	\$17,362	4.00%	\$27,169	4.00%
2002 - 2003	\$18,143	4.50%	\$28,392	4.50%
2003 - 2004	\$19,776	9.00%	\$30,947	9.00%
2004 - 2005	\$20,567	4.00%	\$32,185	4.00%
2005 - 2006	\$21,390	4.00%	\$33,472	4.00%
2006 - 2007	\$22,246	4.00%	\$34,811	4.00%
2007 - 2008	\$23,136	4.00%	\$36,203	4.00%
2008 - 2009	\$25,218	9.00%	\$39,461	9.00%

Sources: 1. Annual Tuition Report for AY 2006-2007, Table 1, UMDNJ-Office of Institutional Research.
 2. UMDNJ Tuition Rates Schedules, Academic Years 2007-2008 and 2008-09.

UNIVERSITY LIBRARIES

The University of Medicine and Dentistry of New Jersey's University Libraries exist in a rapidly changing environment. Like all academic libraries of the 21st century, we are hybrid facilities to an ever increasing extent, preserving past knowledge while offering the latest resources, services and information technology. To do this well necessitates acquiring extensive and appropriate resources, enabling ready and straightforward access to them, and using both traditional and cutting-edge methods of acquisition, access and delivery of service to users. Technology and access to information are being transformed at a pace that requires dynamic research libraries to be more nimble and flexible than ever before. New emphases in research and teaching, and the heightened expectations of the UMDNJ user community, require that the libraries be proactive in anticipating needs, customizing information services that respond to user requirements and designing facilities that enable new kinds of interaction.

The UMDNJ Libraries embrace the 21st century concept of knowledge management. These include the systems and processes used to acquire, organize, store, access, retrieve, teach and disseminate knowledge and information in all formats – traditional and digital. The University Libraries provide a critical portal, where scholarship in all formats is discovered and used, where collaborative education takes place, and where students, faculty and staff can find the expert assistance of highly trained librarians. The scholarly resources made available by the UMDNJ Libraries, combined with effective knowledge management, are crucial competitive assets in an era of massive change in health care and information technology.

Access to scholarly resources and information services to the students, housestaff, faculty, and staff is our primary goal. The Libraries are continually expanding information access, in particular, to electronic scholarly resources available onsite and remotely. Currently, the Libraries provide access to 91 electronic databases, 556 major electronic textbooks in the health sciences and over 11,941 of the most highly rated scholarly electronic journals. Use of licensed electronic resources, online books and journals in full-text, is growing monthly.

The University Libraries are more aggressively supporting electronic journal subscriptions while continuing to cancel large numbers of print journals at each of our campus libraries. As a result of the reduction, we attempt to address the ongoing needs for new electronic content and archival collections. The reduction in print subscriptions is essential to our ability to continue access to the electronic versions of the journals.

Currently, all UMDNJ libraries are fully wireless environments, providing flexible learning and study spaces for all users. New technologies are currently being implemented that will enhance library services to the University community. These include expanding access to electronic resources using open-link/URL technology through a comprehensive knowledge base called SFX and deploying federated search capability enabling searches of multiple resources simultaneously. Improved data security and authentication practices have been a priority over the past year as the libraries move closer to a single sign-on process.

The UMDNJ Libraries contribute to UMDNJ's community services goals and the reality of Internet medicine through HealthyNJ, an extensive consumer health Web site

(<http://www.healthynj.org>). The recent link to HealthyNJ on the University's main Web page will dramatically increase its use. HealthyNJ assists consumers in their quest to rapidly find patient/consumer information tailored to a wide range of cultural, education, and language needs. Currently, there are 400 total topics in the Diseases and Conditions and Health and Wellness portals. Of these, over 200 topics are fully available in Spanish. The site has recently been enhanced with "Read Me First" entries resulting in more widespread use. Plans are underway to participate in the National Library of Medicine's Go Local project, which provides information about health services in local geographic areas, including hospitals, physicians, nursing homes, support groups, health screening providers and many others.

The University Libraries continue to work collaboratively to enhance knowledge management in the clinical practice, education, research, and community service to meet the increasing challenges facing UMDNJ as a major academic health center. The Libraries play a critical support role in supporting learning and the creation and dissemination of new scholarly resources. The libraries strive to be an active catalyst for scholarly communication and knowledge management.

UNIVERSITY LIBRARIES

<http://www.umdnj.edu/librweb/>

NEWARK CAMPUS

UMDNJ – George F. Smith Library of the Health Sciences

30 Twelfth Avenue, P.O. Box 1709, Newark, NJ 07101-1709
(973) 972-4580

<http://www.umdnj.edu/librweb/newarklib/library.html>

NEW BRUNSWICK/PISCATAWAY CAMPUS

UMDNJ-Robert Wood Johnson Library of the Health Sciences

One Robert Wood Johnson Place, New Brunswick, NJ 08903-0019
(732) 235-7610

<http://www2.umdnj.edu/rwjlibweb/index.html>

UMDNJ-Robert Wood Johnson Media Library

675 Hoes Lane, Piscataway, NJ 08854-5635
(732) 235-4460

<http://www.umdnj.edu/librweb/multimedia.html>

STRATFORD CAMPUS

UMDNJ-Health Sciences Library at Stratford

One Medical Center Drive, Stratford, NJ 08084-1501
(856) 566-6800

<http://www.umdnj.edu/librweb/stratlib/index.html>

CAMDEN CAMPUS***The Reuben L. Sharp Health Science Library***

The Cooper Health System, One Cooper Plaza, Camden, NJ
08103-1489

(856) 342-2525

<http://www4.umdj.edu/camlbweb/index.html>

UMDNJ and Coriell Library

401 Haddon Avenue, Camden, NJ 08103-1505

(856) 757-7740

<http://www4.umdj.edu/camlbweb/index.html>

Library resources and services are provided to the University community at the Scotch Plains campus by means of electronic linkages.

UNIVERSITY LIBRARIES-STATISTICAL HIGHLIGHTS-FISCAL YEAR 2008**Access to Libraries' Resources**

Gate Count	440,683
Circulation	18,461

Information Services

Database Accesses/End User	2,105,834
Database Accesses/Librarian Mediated	1,820
Reference Questions Answered	8,988
Education Session (Formal Teaching) Participants	2,555

Interlibrary Cooperation

Lending to Libraries	10,443
Borrowing from Libraries	8,180

Collection

Book Volumes	91,455
Journal Volumes	174,168
Print Journal Subscriptions	599
Electronic Journal Subscriptions	4,580
Database Subscriptions	89

Personnel

Professional Staff (FTE)	34.0
Support Staff (FTE)	29.5

CENTER FOR CONTINUING & OUTREACH EDUCATION (CCOE)

The Center for Continuing and Outreach Education (CCOE) is the centralized administrative unit charged with providing program planning and logistical support services for the continuing and educational outreach activities of all UMDNJ schools and units. It offers complete activity planning and implementation services for live, online, multimedia and print educational programs as well as accreditations in a wide variety of health professions, including medical, dental, and nursing.

CCOE has a multidisciplinary staff of experts with advanced degrees in adult and continuing education, medicine, biosciences and business who ensure that CCOE has the resources necessary to support a full range of educational activities, from small, live local programs to the largest multi-modality national initiatives.

DIVISIONS OF CCOE

CONTINUING MEDICAL EDUCATION (CME). The CME Division works closely with experts from New Jersey Medical School, Robert Wood Johnson Medical School, the School of Osteopathic Medicine and the other Schools, units and centers of UMDNJ to plan, produce, and implement a broad array of educational programming for statewide, regional, national and international audiences.

BIOPHARMA EDUCATION. CCOE is committed to establishing, within appropriate governmental and industry guidelines, long-lasting relationships with partners and grantors in the development of continuing education programming and educational outcomes measurement and analysis. CCOE is equally committed to working in partnership with the BioPharma industry to meet its immediate and ongoing workforce learning needs. Through collaboration with the University's eight schools, industry personnel can participate in existing or customized UMDNJ courses, certificates or degree programs.

CONTINUING DENTAL EDUCATION (CDE). CDE, a cooperative effort between New Jersey Dental School and CCOE, provides a comprehensive array of activities designed to help practicing dentists keep pace with new techniques, technologies and dental materials. Experts from NJDS and external faculty representing the best in education, research and private practice, offer hands-on laboratory activities as well as lecture and surgical/clinical observation activities.

DIVISION OF AIDS EDUCATION. CCOE's Division of AIDS Education, founded in 1989, was among the original Ryan White-funded AIDS Education and Training Centers (AETC) in the country. It serves as the Northern New Jersey Local Performance Site of the NY/NJ AIDS Education and Training Center and is funded in part through the Columbia University Mailman School of Public Health, which holds the regional AETC grant. CCOE-AIDS has clinical faculty throughout New Jersey who are experts in providing medical care to persons living with HIV. These experts offer one-on-one clinical training to less experienced providers, including direct patient care observation, clinical consultation, and small group skills-building sessions. The Division also offers semi-annual HIV medical update programs in New Jersey, as well as important topic

lectures and other skills-building activities that assist providers in the care and treatment of persons living with HIV/AIDS.

CENTERS AND INSTITUTES

UNIVERSITY

Center for Continuing and Outreach Education
Institute for the Elimination of Health Disparities
International Center for Public Health, Inc.
New Jersey AIDS Education and Training Center
New Jersey Center for Biomaterials
New Jersey Chemical-Biological-Radiological-Nuclear-Explosive (CBRNE)
Center for Training and Research at UMDNJ
UMDNJ Informatics Institute

NEW JERSEY MEDICAL SCHOOL AND UNIVERSITY HOSPITAL

AIDS Education and Training Center (AETC) National Resource Center
Asthma and Allergy Center
Cardiovascular Research Institute
Carroll M. Leevy Center for Hepatitis Prevention and Education
Center for Advanced Proteomics Research
Center for Bloodless Surgery and Medicine
Center for Childhood and Neonatal Surgery
Center for Healthcare Ethics
Center for Human Development and Aging
Center for Macular Degeneration Treatment and Research
Center for Neuromuscular Disorders
Center for Rehabilitation Services
Center for Reproductive Medicine
Center for Skull Base Surgery
Center for Vascular Disease
Center for Ventilatory Support Alternatives & Pulmonary Rehabilitation
Cochlear Implant Center
Community Training Center
Cornea and Laser Vision Institute
Cystic Fibrosis Center
Eye Institute of New Jersey
Global Tuberculosis Institute at UMDNJ
Headache Center
Institute for Ophthalmology and Visual Science
Institute of Genomic Medicine
Low Back Pain Rehabilitation Center
Multiple Sclerosis Diagnosis and Treatment Center
Neurofibromatosis Center of New Jersey
Neurological Institute of New Jersey
Neurooncology Center
New Jersey Breast Imaging Center
New Jersey Medical School Center for BioDefense
New Jersey Medical School Center for Immunity and Inflammation
New Jersey Medical School Hispanic Center of Excellence
New Jersey Medical School Liver Center

New Jersey Medical School Spine Center
 New Jersey Medical School Sports Medicine Center
 New Jersey State Trauma Center
 North Jersey Orthopaedics Institute
 Northern New Jersey Spinal Cord Injury Center
 Ophthalmic Center for Minimally Invasive Treatment
 Ophthalmic Clinical Trials Center
 Osteopathic Rehabilitation Center
 Pain and Fatigue Study Center
 Pancreatic Biliary Institute
 Pediatric Comprehensive Epilepsy Center
 Peripheral Nerve Center
 Psychiatric Screening Center
 Ruy V. Lourenço Center for the Study of Emerging and Re-Emerging Pathogens
 Ruy V. Lourenço Student Health Advocates for Research and Education
 (SHARE) Center
 Sickle Cell Disease Center
 The Autism Center
 University Center for Plastic and Reconstructive Surgery
 University Craniofacial Center of New Jersey
 University Hospital Comprehensive Pain Management Center
 University Institute for Children's Health
 University Transplantation Center
 University Women's Health Care Center
 Vascular Biology Center
 Women's Wellness Center
 Young Fathers Program

ROBERT WOOD JOHNSON MEDICAL SCHOOL

Advanced Center for Parkinson's Disease Research (Richard E. Heikkila Center
 of Excellence)
 Antenatal Diagnostic Center (Camden)
 Biliary-Pancreas Disease Center
 Cancer Institute of New Jersey
 Cardiac Arrhythmia Center
 Cardiovascular Institute of New Jersey
 Center for Advanced Biotechnology and Medicine
 Center for Biomedical Imaging and Informatics
 Center for Biostatistics
 Center for Child and Reproductive Environmental Health
 Center for Clinical and Translational Science
 Center for Coronary Artery Disease Reversal
 Center for Healthy Families and Cultural Diversity
 Center for Hematopoietic Stem Cell Transplantation
 Center for HIV Infection
 Center for Molecular Therapeutics
 Center for Neurodegenerative and Neuroimmunologic Diseases
 Center for Neuroscience
 Center for Psychopharmacology Research
 Center for Sexual and Marital Health

Center for Stress Management and Behavioral Medicine
Child Health Institute of New Jersey
Clinical Center of EOHSI
Colorectal Care Center (Camden)
Comprehensive Epilepsy Center
Comprehensive Services on Aging (COPSA) Institute for Alzheimer's Disease
and Related Disorders (with UBHC)
Comprehensive Sleep Disorders Center
Cooper Center for In Vitro Fertilization (Camden)
Corporate Wellness Center
Crohn's and Colitis Center of New Jersey
Cystic Fibrosis Center
Dean and Betty Gallo Prostate Cancer Institute at CINJ
Digestive Disease Center
Elizabeth M. Boggs Center on Developmental Disabilities-The University
Affiliated Program of New Jersey
Environmental & Occupational Health Sciences Institute
Eric B. Chandler Health Center
Gastrointestinal and Liver Tumor Center
Genitourinary Tumor Study Group Center
Geriatric Assessment and Evaluation Center (Camden)
Geriatric Assessment Service
Gerontological Institute
Heart Center of New Jersey
Heart Failure Center
Hypertension Outpatient Center
Infant APNEA Center (Camden)
Institute for Reproductive and Perinatal Genetics
Institute for the Study of Child Development
Ira B. Black Center for Stem Cell Research
Leukemia/Lymphoma Study Center
Lipid Disorder Center
Lyme Disease Center
Melanoma and Sarcoma Center
National Institute of Environmental Health Sciences Center of Excellence
Neuromuscular and ALS Center
New Jersey Comprehensive Breast Care Center
New Jersey Pain Institute
New Jersey Regional Hemophilia Program
Osteoporosis Center
Ozone Research Center
Perinatal Institute
Psoriasis Clinic Research Disease Center
Regional Cleft/Craniofacial Programs of Southern New Jersey (Camden)
Robert Wood Johnson Dialysis Center
Scleroderma Program
SIDS Center of New Jersey
Sports Medicine Center
Stem Cell Institute of New Jersey
The Robert Wood Johnson Autism Center
Thoracic Tumor Study Group Center

Thrombosis Center
Trauma Center
University Center for Reproductive Endocrinology and Fertility
Vascular Center of New Jersey
Women's Health Institute

NEW JERSEY DENTAL SCHOOL

Advanced Technology Education Center
Center for Oral Infectious Diseases
Center for Pharmacogenomics & Complex Disease Research
Center for Treatment of the Handicapped
Northeastern Minority Oral Health Research Center
University Craniofacial Center of New Jersey

SCHOOL OF OSTEOPATHIC MEDICINE

Center for Mental Health Treatment for Persons with Intellectual Disabilities
Center for Wellness
Child Abuse Research Education and Service (CARES) Institute
Geriatric Education Center
New Jersey Institute for Successful Aging (NJISA)
University Headache Center
University Pain Care Center

SCHOOL OF HEALTH RELATED PROFESSIONS

Center for Advanced and Continuing Education (with Center for Continuing and Outreach Education)
Center for Health Informatics
Center for the Study and Promotion of Recovery from Severe Mental Illness
Institute for Complementary and Alternative Medicine
Institute for Nutrition Intervention
Integrated Employment Institute
Multimedia Health Care Teaching Center

SCHOOL OF NURSING

Center for Life Long Learning
François Xavier Bagnoud Center
New Jersey Center for Evidence-Based Practice at UMDNJ-School of Nursing
Stanley S. Bergen, Jr., MD Center for Multicultural Education, Research and Practice

SCHOOL OF PUBLIC HEALTH

Centers for Education and Training
Center for Health Economics and Health Policy
Center for School and Community Health Education
Center for Tobacco Surveillance & Evaluation Research
New Jersey Center for Public Health Preparedness at UMDNJ

UNIVERSITY BEHAVIORAL HEALTHCARE

Behavioral Research and Training Institute
Institute for Alzheimer's Disease and Related Disorders
Institute for Chemical Dependency
Technical Assistance Center
Violence Institute of New Jersey at UMDNJ

UNIVERSITY HEALTH CARE FACILITIES

Cancer Institute of New Jersey

195 Little Albany Street
New Brunswick, New Jersey 08901

New Jersey Medical School-University Hospital Cancer Center

205 South Orange Avenue
Newark, New Jersey 07101

Child Health Institute of New Jersey

89 French Street
New Brunswick, NJ 08901

Eric B. Chandler Health Center

277 George Street
New Brunswick, New Jersey 08901

Eric B. Chandler Health Center Church Street Annex

123 Church Street
New Brunswick, NJ 08901

New Jersey Medical School Doctors Office Center

90 Bergen Street
Post Office Box 1709
Newark, New Jersey 07101-1709

Robert Wood Johnson Medical School Clinical Academic Building

125 Paterson Street
New Brunswick, New Jersey 08901-1977

UMDNJ-University Hospital

150 Bergen Street
Post Office Box 1709
Newark, New Jersey 07101-1709

University Behavioral HealthCare at Newark

183 South Orange Avenue
Post Office Box 1709
Newark, New Jersey 07101-1709

University Behavioral HealthCare at Piscataway

671 Hoes Lane
Piscataway, New Jersey 08854-1392

Focus Community Health Center

449 Broad Street
Newark, New Jersey 07102

Robert Wood Johnson Medical School Professional Center

97 Paterson Street
New Brunswick, New Jersey 08901-1977

Robert Wood Johnson University Medical Group Family Practice at Monument Square

317 George Street
New Brunswick, New Jersey 08901

Robert Wood Johnson University Medical Group at Somerset

One Worlds Fair Drive
Somerset, New Jersey 08873

Robert Wood Johnson Family Practice Center at Old Bridge

2433 Highway 516
Old Bridge, NJ 08857

Robert Wood Johnson University Medical Group-Neurosurgery

1833 Oak Tree Road
Edison, NJ 08817

Robert Wood Johnson Medical Associates

Monroe Town Center
337 Applegarth Road
Cranbury, NJ 08512

School of Osteopathic Medicine – The University Doctors at Cherry Hill

Rutgers Casualty Building
2250 Chapel Avenue, Suite 110 – Family Medicine
Cherry Hill, New Jersey 08002

2250 Chapel Avenue, Suite 100 – Psychiatry
Cherry Hill, New Jersey 08002

1020 N. Kings Highway, Suite 108 – Internal Medicine/NJ Institute for Successful Aging/ Pulmonary/Endocrinology
Cherry Hill, New Jersey 08034

School of Osteopathic Medicine – The University Doctors at Hainesport

310 Creek Crossing Blvd. – Family Medicine
Hainesport, NJ 08036

School of Osteopathic Medicine – The University Doctors at Hammonton

373 White Horse Pike – Family Medicine
Hammonton, New Jersey 08037

School of Osteopathic Medicine – The University Doctors at Stratford

University Doctors' Pavilion – Pain Center/Institute for Successful Aging/
CARES Institute/Family Medicine/Surgery/Cancer Center/
Ob-Gyn/Medicine/Physical Therapy/Orthopedics/Osteopathic Manipulative
Medicine/Sports Medicine
42 East Laurel Road
Stratford, New Jersey 08084-1350

Academic Center – Wellness Center/Nutrition & Weight Loss
One Medical Center Drive
Stratford, New Jersey 08084-1350

101 East Laurel Road – Developmental Disabilities
Stratford, New Jersey 08084

School of Osteopathic Medicine – The University Doctors at Turnersville

Fries Mill Pavilion – Pediatrics and Adolescent Medicine
188 Fries Mill Road, Suite M-5
Turnersville, New Jersey 08012

School of Osteopathic Medicine – The University Doctors at Voorhees

Pavilions at Voorhees – Internal Medicine
2301 Evesham Road, Suite 303
Voorhees, New Jersey 08043

School of Osteopathic Medicine – The University Doctors at Washington Township

570 Egg Harbor Road – Suite C2 – Family Medicine, Medicine, Obstetrics &
Gynecology, Orthopedics, Pain Management, Surgery
Sewell, New Jersey 08080

Kennedy Professional Center, Suite A-11 – Internal Medicine
445 Hurffville-Crosskeys Road
Sewell, New Jersey 08080

100 Kings Way East – Family Medicine
Suite D-6
Sewell, NJ 08080

School of Osteopathic Medicine – Hospital-Based Units

Lourdes Medical Center of Burlington County – Maternal & Fetal Medicine
218 Sunset Road
Willingboro, NJ 08046

Our Lady of Lourdes Medical Center
1600 Haddon Avenue
Camden, NJ 08101

Kennedy Memorial Hospital – Stratford Division
18 East Laurel Road
Stratford, NJ 08084

Kennedy Memorial Hospital – Washington Township Division
435 Hurfville-Cross Keys Road
Turnersville, NJ 08012

Kennedy Memorial Hospital – Cherry Hill Division
2201 Chapel Avenue West
Cherry Hill, NJ 08002

South Jersey Healthcare – Regional Medical Center of
South Jersey Health System
1505 West Sherman Avenue
Vineland, NJ 08360

New Jersey Dental School (300 operatories)
110 Bergen Street
Newark, New Jersey 07101-1709

New Jersey Dental School Center for Dental and Oral Health
90 Bergen Street, Suite 7700
Post Office Box 1709
Newark, New Jersey 07101-1709

New Jersey Dental School Extramural All Health Care Dental Centers
University Dental Center at Galloway
4 East Jimmy Leeds Road
Building 2, Suite 6
Galloway, New Jersey 08205

University Dental Center at Matheny Medical and Educational Center
Post Office Box 339 Main Street
Peapack, New Jersey 07977

University Dental Center at Somerdale Square
13 Somerdale Square
Somerdale, New Jersey 08083

University John H. Cronin Dental/Medical Center
235 Dolphin Avenue
Northfield, New Jersey 08225

School of Health Related Professions Allied Dental Clinic
1176 Raritan Road
Scotch Plains, New Jersey 07076

School of Nursing Mobile Health Project
65 Bergen Street
Newark, New Jersey 07101-1709

MAJOR TEACHING HOSPITALS

PRINCIPAL HOSPITALS

UMDNJ-University Hospital

150 Bergen Street
Post Office Box 1709
Newark, New Jersey 07101-1709

The Cooper Health System

One Cooper Plaza
Camden, New Jersey 08103

Robert Wood Johnson University Hospital

One Robert Wood Johnson Place
New Brunswick, New Jersey 08903-2601

Kennedy Memorial Hospitals-University Medical Center

18 East Laurel Road
Stratford, New Jersey 08084

435 Hurfville-Cross Keys Road
Turnersville, New Jersey 08012

2201 Chapel Avenue West
Cherry Hill, New Jersey 08002

UNIVERSITY HOSPITALS

Hackensack University Medical Center

30 Prospect Avenue
Hackensack, New Jersey 07601

Meridian Hospitals Corporation/Jersey Shore University Medical Center

1945 Corlies Avenue, Route 33
Neptune, New Jersey 07753

University Medical Center at Princeton

253 Witherspoon Street
Princeton, New Jersey 08540

MAJOR CLINICAL AFFILIATES**Department of Veterans Affairs, New Jersey Health Care System**

385 Tremont Avenue
East Orange, New Jersey 07018

151 Knollcroft Road
Lyons, New Jersey 07939

Kessler Institute for Rehabilitation

240 Central Avenue
East Orange, New Jersey 07018

1199 Pleasant Valley Way
West Orange, New Jersey 07052

300 Market Street
Saddle Brook, New Jersey 07663

201 Pleasant Hill Road
Chester, New Jersey 07930

Raritan Bay Health Services Corporation/Raritan Bay Medical Center

530 New Brunswick Avenue
Perth Amboy, New Jersey 08861

Saint Barnabas Medical Center

94 Old Short Hills Road
Livingston, New Jersey 07039

Saint Joseph's Regional Medical Center

703 Main Street
Paterson, New Jersey 07503

Somerset Medical Center

110 Rehill Avenue
Somerville, New Jersey 08876

Our Lady of Lourdes Medical Center

1600 Haddon Avenue
Camden, New Jersey 08103-1489

PROFILE OF THE STUDENT BODY

Enrollment.....	44
Admissions	46
Financial Aid, State-Funded Programs	58
Degrees and Certificates Awarded	59
Graduation and Retention.....	60
Post-Graduate Placement of Medical and Dental Students	80
Postdoctoral Appointees	82

**ENROLLMENT IN SCHOOLS BY GENDER AND RACE / ETHNICITY
FALL 2007**

	TOTAL NUMBER ENROLLED	% BLACK	% HISPANIC	% ASIAN	% WOMEN	% NJ RESIDENT
<u>NEW JERSEY MEDICAL SCHOOL</u>	708	12.1	14.4	35.6	47.2	99.6
<u>ROBERT WOOD JOHNSON MEDICAL SCHOOL</u>	674	9.9	4.9	35.3	54.7	99.0
<i>New Brunswick/Piscataway Campus</i>	450	5.6	3.8	40.2	51.8	99.1
<i>Camden Campus</i>	224	18.8	7.1	25.4	60.7	98.7
<u>SCHOOL OF OSTEOPATHIC MEDICINE</u>	413	19.6	8.0	19.9	59.1	98.5
<u>NEW JERSEY DENTAL SCHOOL</u>	417	5.3	4.3	30.7	53.2	86.8
<u>GRADUATE SCHOOL OF BIOMEDICAL SCIENCES</u>	934	9.4	9.0	39.9	57.1	53.4
<i>Newark Division</i>	429	8.6	9.1	38.2	62.0	64.1
<i>Piscataway Division</i>	247	8.5	9.3	52.2	54.7	32.0
<i>Joint Programs-Rutgers and NJIT</i>	152	3.9	9.2	38.2	47.4	44.7
<i>Stratford Division</i>	106	22.6	7.5	20.8	56.6	72.6
<u>SCHOOL OF HEALTH RELATED PROFESSIONS</u>	1,248	12.7	8.1	15.3	76.2	73.3
<u>SCHOOL OF NURSING</u>	911	23.8	7.7	14.3	83.9	89.6
<u>SCHOOL OF PUBLIC HEALTH</u>	391	17.6	6.9	32.2	67.3	77.5
<i>Newark Campus</i>	133	29.3	12.0	30.8	66.9	70.7
<i>New Brunswick/Piscataway Campus</i>	223	10.8	4.9	35.0	66.8	78.9
<i>Stratford Campus</i>	35	17.1	0.0	20.0	71.4	94.3
<u>GRAND TOTAL*</u>	5,696					
<i>Unduplicated Count</i>	5,617	13.8	8.2	26.7	65.0	81.9

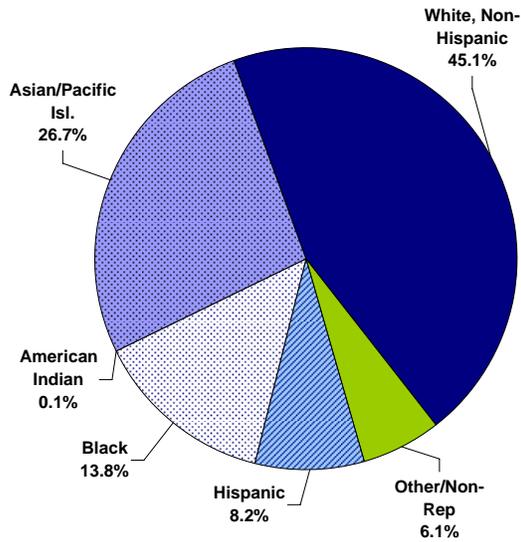
*Students with dual enrollment are counted in each School/program in which they are enrolled.
Grand Total percents are based upon unduplicated headcount.

Unduplicated headcount = 5,617

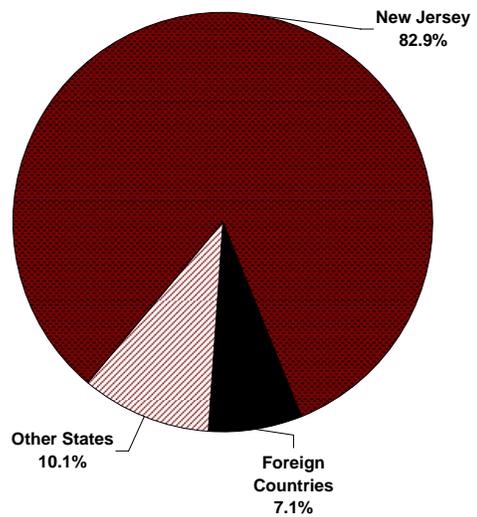
Source: Office of University Registrar: Data as of October 1, 2007, revised March 17, 2008.

PROFILE OF UMDNJ'S STUDENT ENROLLMENT FALL 2007

RACE / ETHNICITY



RESIDENCE AT ADMISSION



	<i>Enrolled Headcount</i>
American Indian	4
Asian/Pacific Islander	1,499
Black	777
Hispanic	461
White, Non-Hispanic	2,536

Full-time: 71.4%	Part-time: 28.6%
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	<i>Enrolled Headcount</i>
New Jersey	4,656
Other States	565
Foreign Countries	396

Female: 65.0%	Male: 35.0%
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Unduplicated headcount = 5,617

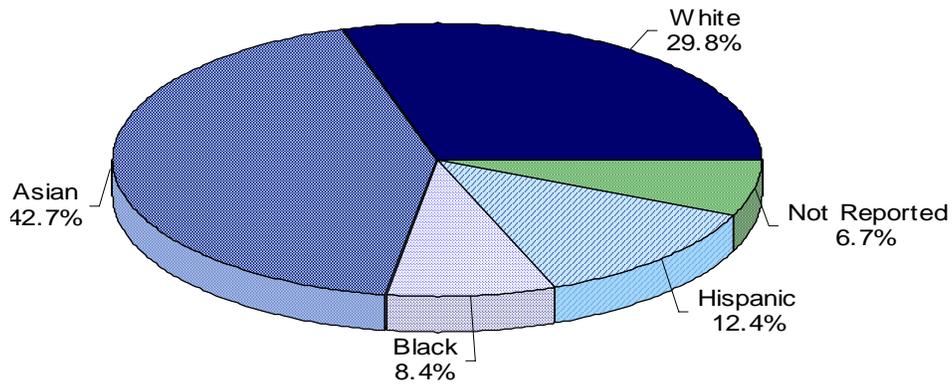
Source: Office of the University Registrar: Data as of October 1, 2007, revised March 17, 2008

ADMISSIONS DATA

The following figures provide data by School on the characteristics of entering classes in 2007-2008.

The Schools of UMDNJ do not use SAT scores in the admissions process. GPAs and graduate or professional school entrance exams are considered. Therefore, the following pages report average GPA for the entering graduate-level class within each School and the average entrance examination scores where such examinations are required.

**FIRST-TIME FIRST-YEAR MATRICULANTS
NEW JERSEY MEDICAL SCHOOL
FALL 2007
N = 178**

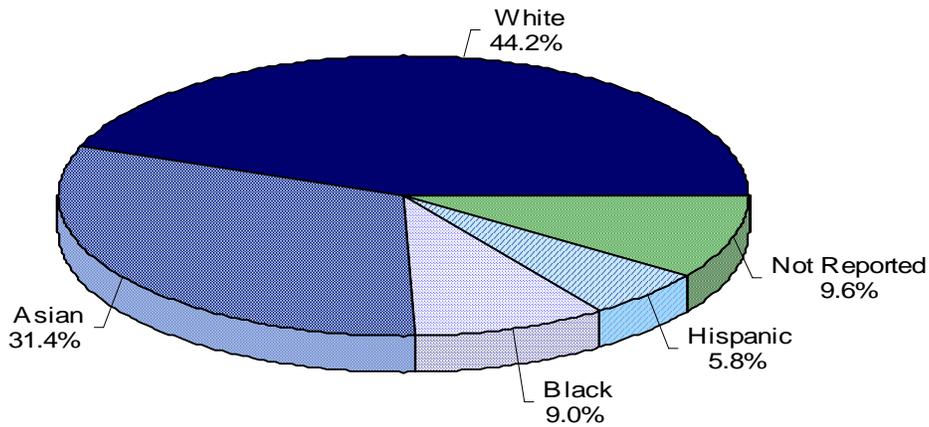


NJ Residents	98.9%	
Female	46.6%	
	<i>Class Average</i>	<i>National Average</i>
Total GPA	3.58	3.65
MCAT*		
Verbal Reasoning	9.9	9.9
Physical Sciences	10.4	10.3
Biological Sciences	10.7	10.6

* MCAT stands for the Medical College Admission Test.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME FIRST-YEAR MATRICULANTS
ROBERT WOOD JOHNSON MEDICAL SCHOOL
FALL 2007
N = 156**



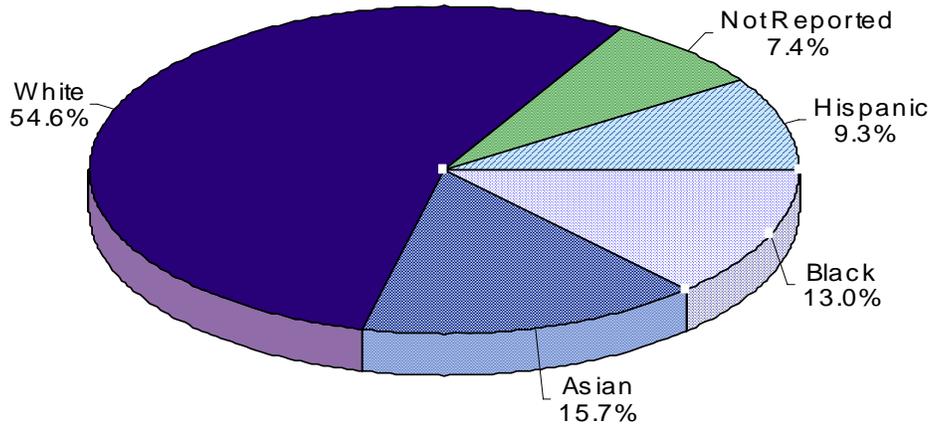
NJ Residents	99.4%	
Female	58.3%	
	<i>Class Average</i>	<i>National Average</i>
Total GPA	3.61	3.65
MCAT*		
Verbal Reasoning	9.7	9.9
Physical Sciences	10.4	10.3
Biological Sciences	10.7	10.6

Note: An additional ten students in the BA/ or BS/MD articulated program with Rutgers were admitted as non-matrics and will enter the second year at RWJMS in Fall 2008. The total GPA including these ten students was 3.63.

* MCAT stands for the Medical College Admission Test.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME FIRST-YEAR MATRICULANTS
SCHOOL OF OSTEOPATHIC MEDICINE
FALL 2007
N = 108**



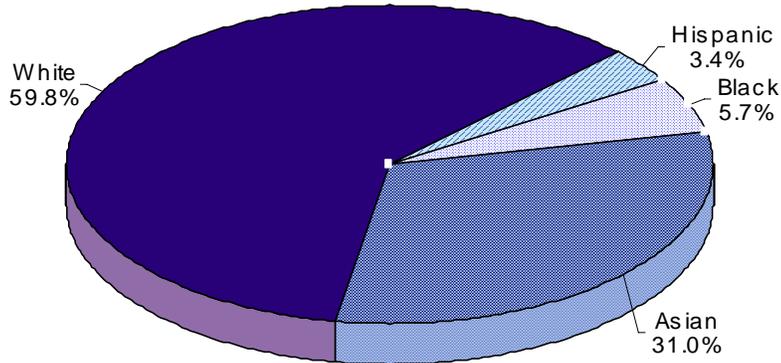
NJ Residents	100.0%	
Female	50.9%	
	<i>Class Average</i>	<i>National Average</i>
Total GPA	3.45	3.4
MCAT*		
Verbal Reasoning	8.8	7.6
Physical Sciences	9.2	7.5
Biological Sciences	9.3	7.9

Note: n/a = Not available.

* MCAT stands for the Medical College Admission Test.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME FIRST-YEAR MATRICULANTS
NEW JERSEY DENTAL SCHOOL
FALL 2007
N = 87**



NJ Residents	97.7%
Female	48.3%
Total GPA Class Average	3.53
DAT* Academic Average**	19.4

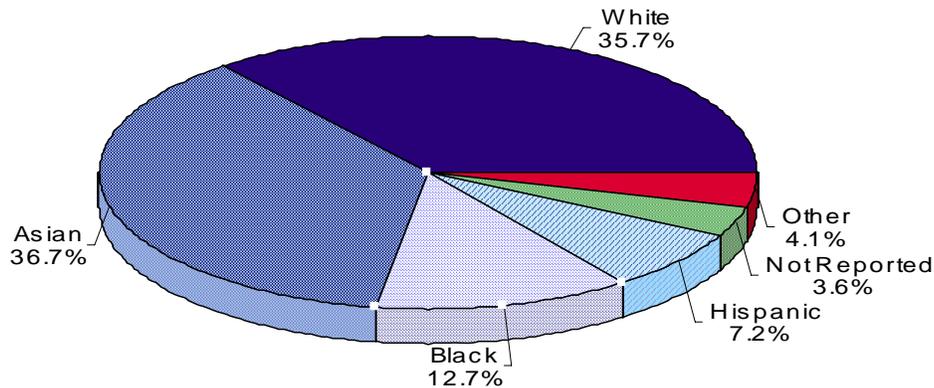
Note: National averages are not available.

* DAT stands for the Dental Admission Test.

** Academic Average is the average of the Quantitative Reasoning, Reading Comprehension, Biology, General and Organic Chemistry test scores.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME MATRICULANTS
GRADUATE SCHOOL OF BIOMEDICAL SCIENCES
NEWARK AND STRATFORD DIVISIONS
FALL 2007 AND SPRING 2008
N = 221**



NJ Residents	69.2%
Female	63.3%
Total GPA Class Average*	3.22
GRE** Class Averages	
Verbal	489
Quantitative	669
Analytical Reasoning†	460
Analytical Writing†	4.19

Note: National averages are not available.

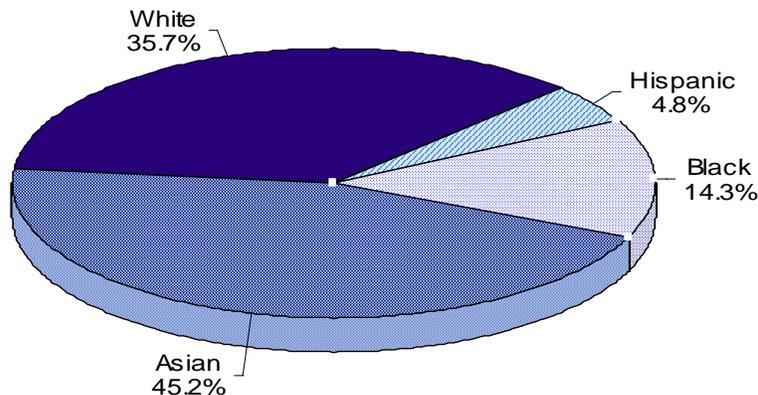
* Baccalaureate degree GPAs.

** GRE stands for the Graduate Record Examination.

† The analytical writing section replaced the multiple choice analytical reasoning section on October 1, 2002. The writing section is scored on a scale of 0 to 6. Analytical reasoning scores are reported for students who took the GRE before October 1, 2002.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME MATRICULANTS
GRADUATE SCHOOL OF BIOMEDICAL SCIENCES
PISCATAWAY DIVISION JOINT PROGRAM WITH RUTGERS UNIVERSITY*
FALL 2007 AND SPRING 2008
N = 42**



NJ Residents	33.3%
Female	45.2%
Total GPA Class Average**	3.50
GRE† Class Averages	
Verbal	482
Quantitative	697
Analytical Reasoning‡	715
Analytical Writing‡	4.02

Note: National averages are not available.

* First-year students are administratively assigned either to UMDNJ or to Rutgers University. The information reported here is for the group assigned to UMDNJ, but is representative of the entire first-year matriculated class.

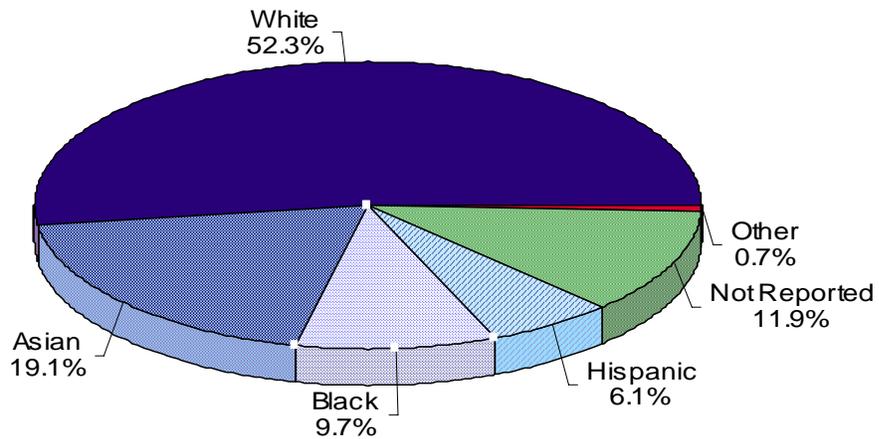
** Baccalaureate degree GPAs.

† GRE stands for the Graduate Record Examination.

‡ The analytical writing section replaced the multiple choice analytical reasoning section on October 1, 2002. The writing section is scored on a scale of 0 to 6. Analytical reasoning scores are reported for students who took the GRE before October 1, 2002.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME MATRICULANTS
SCHOOL OF HEALTH RELATED PROFESSIONS
GRADUATE PROGRAMS
SPRING, SUMMER AND FALL 2007
N = 277**



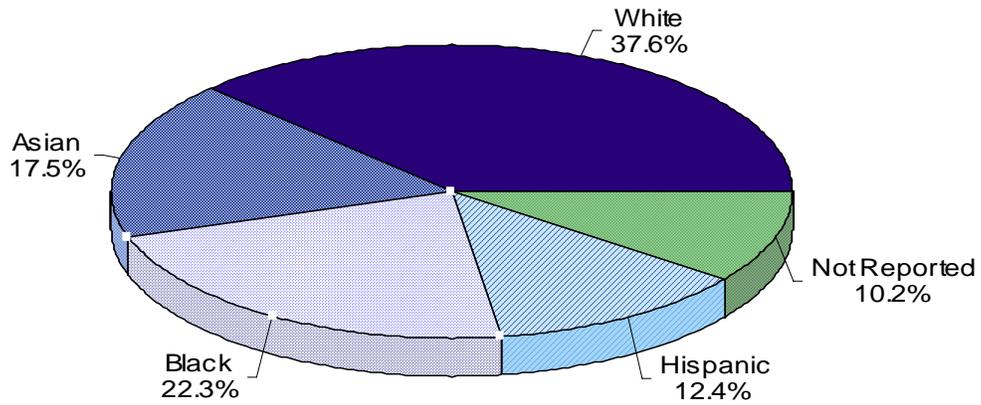
NJ Residents	71.1%
Female	72.9%
Total GPA Class Average*	3.23

Note: National average is not available.

* Baccalaureate degree GPAs.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

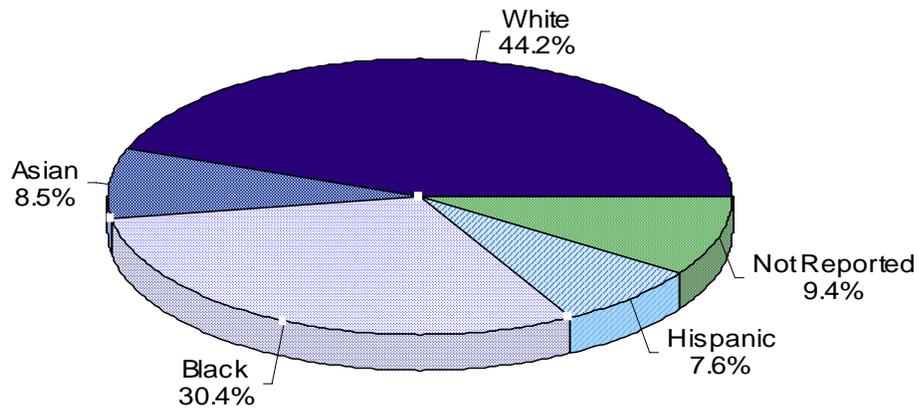
**FIRST-TIME MATRICULANTS
SCHOOL OF HEALTH RELATED PROFESSIONS
UNDERGRADUATE PROGRAMS
SPRING, SUMMER AND FALL 2007
N = 274**



NJ Residents	86.5%
Female	75.2%

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME MATRICULANTS
SCHOOL OF NURSING
GRADUATE PROGRAMS
SPRING, SUMMER AND FALL 2007
N = 224**



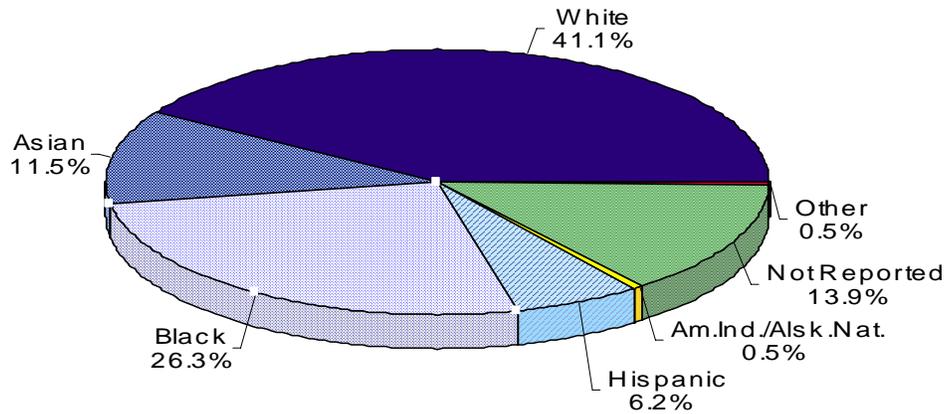
NJ Residents	85.3%
Male	14.3%
Total GPA Class Average*	3.34

Note: National average is not available.

* Baccalaureate degree GPAs.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME MATRICULANTS
SCHOOL OF NURSING
SECOND BACHELOR'S DEGREE PROGRAM
SPRING, SUMMER AND FALL 2007
N = 209**



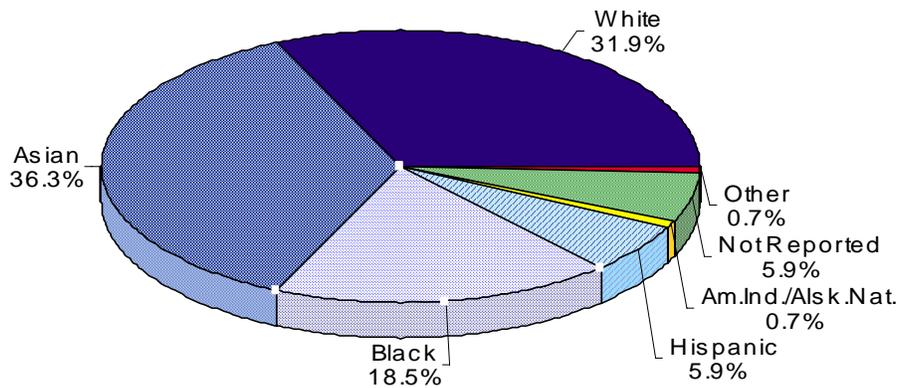
NJ Residents	88.0%
Male	18.7%
Total GPA Class Average*	3.19

Note: National average is not available.

* Baccalaureate degree GPAs.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

**FIRST-TIME MATRICULANTS
SCHOOL OF PUBLIC HEALTH
FALL 2007 AND SPRING 2008
N = 135**



NJ Residents	77.8%
Female	71.1%
Total GPA Class Average*	3.20
GRE** Class Averages	
Verbal	501
Quantitative	630
Analytical Reasoning [†]	636
Analytical Writing [†]	4.06

Note: National averages are not available.

* Baccalaureate degree GPAs.

** GRE stands for the Graduate Record Examination.

† The analytical writing section replaced the multiple choice analytical reasoning section on October 1, 2002. The writing section is scored on a scale of 0 to 6. Analytical reasoning scores are reported for students who took the GRE before October 1, 2002.

Source: UMDNJ Report on Admissions, 2007-2008, UMDNJ-Office of Institutional Research.

FINANCIAL AID INFORMATION
STATE-FUNDED PROGRAMS
Academic Year 2007-2008

<i>Programs</i>	<i>Number of Recipients</i>
STATE-FUNDED LOANS	
NJCLASS	262
STATE-FUNDED SCHOLARSHIPS/GRANTS	
Educational Opportunity Fund	110
Tuition Aid Grant	71
Martin Luther King Scholarship	44
Disadvantaged Student Fund	442

Source: UMDNJ-Office of Financial Aid.

**DEGREES AND CERTIFICATES AWARDED
ACADEMIC YEAR 2006-2007**

DEGREES	Black	Hispanic	Asian	White	Native Amer.	Un-known	TOTAL
Doctor of Medicine	40	23	91	151	0	7	312
Doctor of Osteopathic Medicine	14	6	25	42	1	0	88
Doctor of Dental Medicine	1	4	21	54	0	0	80
Doctor of Philosophy	3	5	47	29	0	1	85
Doctor of Physical Therapy	0	3	5	41	0	4	53
Doctor of Clinical Nutrition	0	0	0	2	0	1	3
Master's Degrees ¹ / Post-Baccalaureate Certificates	75	26	96	205	2	14	419
Post-Master's / Post-Doctoral Certificates	2	1	8	15	0	0	26
Undergraduate Degrees ² / Certificates	100	42	78	220	1	40	461
TOTAL	235	110	371	760	4	67	1,547³

Degrees and Certificates Awarded By Gender⁴

Men	Women	Total
489	1,042	1,531

1 Includes MS, Master, MSN, MPH, and MPT

2 Includes AAS, AS, BS and BSN

3. Duplicated Headcount

4. Unduplicated Headcount

Source: University Graduation Statistics Report, AY 2006-2007, UMDNJ-Office of Institutional Research.

GRADUATION AND RETENTION

The following tables provide historical data on student graduation and retention by School/Program. Tables describing joint undergraduate and certificate programs report only graduation rates because attrition is rarely reported to UMDNJ by our partner institutions. Please note that these tables track groups of students (cohorts) entering together in the same academic year.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**NEW JERSEY MEDICAL SCHOOL, MD PROGRAM
USUAL DURATION 4 YEARS
STUDENTS BEGINNING IN AY 1999-2000 THROUGH AY 2003-2004**

	Number in Beginning Cohort (100%)¹	Total Number Graduated	Total Number Retained²	% Retained, Adjusted³
1999-00	170	167	167	98.8 ³
2000-01	170	164	165	97.1
2001-02	170	159	168	98.8
2002-03	170	162	167	98.2
2003-04	170	142	169	99.4

1 Number in beginning cohort includes MD/PhD students (two in 1999, two in 2000, six in 2001, one in 2002 and six in 2003); MD/MPH students (four in 2000, three in 2001, six in 2002 and four in 2003); and MD/Oral Maxillofacial students (one in 2000).

2 Retained includes both students who have completed the program and students still in progress.

3 Percent retained is an adjusted percent based on the number beginning minus transfers to another medical program outside UMDNJ.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**ROBERT WOOD JOHNSON MEDICAL SCHOOL, MD PROGRAM
USUAL DURATION 4 YEARS
STUDENTS BEGINNING IN AY 1999-2000 THROUGH AY 2003-2004**

	Number in Beginning Cohort (100%)^{1,2}	Total Number Graduated	Total Number Retained³	% Retained, Adjusted⁴
1999-00	154	143	144	93.5
2000-01	153	145	147	96.1
2001-02	147	139	143	97.3
2002-03	148	125	138	94.5 ⁴
2003-04	148	117	146	98.6

1 Number in beginning cohort includes MD/PhD students (one in 1999, one in 2000, five in 2001, three in 2002 and four in 2003); MD/MS students (one in 1999); and MD/MBA students (two in 1999, five in 2000, three in 2001, five in 2002 and one in 2003).

2 Number in beginning cohort does not include MD/MPH students (three in 1999, two in 2000, six in 2001, five in 2002 and three in 2003), who are reported on separately in Table 3.

3 Retained includes both students who have completed the program and students still in progress.

4 Percent retained is an adjusted percent based on the number beginning minus transfers to another medical program outside UMDNJ (two in 2002).

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**ROBERT WOOD JOHNSON MEDICAL SCHOOL/
SCHOOL OF PUBLIC HEALTH, MD/MPH (DUAL DEGREE) PROGRAM
USUAL DURATION 5 YEARS
STUDENTS BEGINNING IN AY 1998-1999 THROUGH AY 2002-2003**

	Number in Beginning Cohort (100%)	Number Completed One Degree Only	Number Completed Both Degrees	Number Retained¹	% Retained
1998-99	8 ²	3	4	7	87.5
1999-00	3	1	2	3	100.0
2000-01	2	0	1	1	50.0
2001-02	6	0	6	6	100.0
2002-03	5	4	1	5	100.0

1 Retained includes both students who have completed the program and students still in progress.

2 Does not include one deceased student.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF OSTEOPATHIC MEDICINE, DO PROGRAM
USUAL DURATION 4 YEARS
STUDENTS BEGINNING IN AY 1999-2000 THROUGH AY 2003-2004**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained, Adjusted²
1999-00	79	70	70	89.7
2000-01	80 ³	78	78	98.7 ²
2001-02	87 ³	83	83	96.5 ²
2002-03	87	81	85	97.7
2003-04	95 ³	86	93	97.9

1 Retained includes both students who have completed the program and students still in progress.

2 Percent retained is an adjusted percent based on the number beginning minus transfers to another medical program outside UMDNJ.

3 Number in beginning cohort includes DO/MPA students (one in 2000 and one in 2001), DO/PhD students (one in 2000 and one in 2003), DO/MBA (one in 2003) and DO/JD students (two in 2000 and one in 2001).

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**NEW JERSEY DENTAL SCHOOL, DMD PROGRAM
USUAL DURATION 4 YEARS
STUDENTS BEGINNING IN AY 1999-2000 THROUGH AY 2003-2004**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
1999-00	74	72	72	97.3
2000-01	76	69	69	90.8
2001-02	78	71	72	92.3
2002-03	83	79	79	95.2
2003-04	79	73	74	93.7

¹ Retained includes both students who have completed the program and students still in progress.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**GRADUATE SCHOOL OF BIOMEDICAL SCIENCES, PHD PROGRAM
MAXIMUM DURATION 7 YEARS
STUDENTS BEGINNING IN AY 1996-1997 THROUGH AY 2000-2001**

	Number in Beginning Cohort (100%)¹	Total Number Graduated²	Total Number Retained³	% Retained of All Beginning
1996-97	48	39	40	83.3
1997-98	56	38	39	69.6
1998-99	66	55	55	83.3
1999-00	64	55	56	87.5
2000-01	60	42	45	75.0

1 Number in beginning cohort includes students in dual-degree programs such as MD/PhD.

2 Total number graduated includes ten students with terminal master's degrees in 1996, five in 1997, eleven in 1998, eight in 1999 and four in 2000.

3 Retained includes both students who have completed the program and students still in progress.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF PUBLIC HEALTH, PHD and DrPH PROGRAMS
MAXIMUM DURATION 8 YEARS¹
STUDENTS BEGINNING IN AY 1995-1996 THROUGH AY 1999-2000**

	Number in Beginning Cohort (100%)²	Total Number Graduated	Total Number Retained³	% Retained of All Beginning
1995-96	4	2	2	50.0
1996-97	5	4	5	100.0
1997-98	3	1	1	33.3
1998-99	11	4	9	81.8
1999-00	5	4	5	100.0

1 The maximum program duration was changed from seven years to eight years in 2007.

2 Includes students who completed the MPH degree while enrolled in the PhD or DrPH program (two in 1998-99 and two in 1999-00).

3 Retained includes both students who have completed the program and students still in progress.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF NURSING, MSN PROGRAM
MAXIMUM DURATION 6 YEARS¹
STUDENTS BEGINNING IN CALENDAR YEARS 1997 THROUGH 2001**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained²	% Retained of All Beginning
1997	70	46	46	65.7
1998	78	52	53	67.9
1999	83	44	44	53.0
2000	95	45	49	51.6
2001	83	37	45	54.2

1 The maximum program duration was changed from five years to six years in 2007.

2 Retained includes both students who have completed the program and students still in progress.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF PUBLIC HEALTH, MPH PROGRAM¹
USUAL DURATION 6 YEARS²
STUDENTS BEGINNING IN AY 1997-1998 THROUGH AY 2001-2002**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained³	% Retained of All Beginning
1997-98	74	35	36	48.6
1998-99	74	51	57	77.0
1999-00	104	51	74	71.2
2000-01	64	47	54	84.4
2001-02	117	84	103	88.0

1 MD/MPH students are reported on separately.

2 The maximum program duration was changed from five years to six years in 2007.

3 Retained includes both students who have completed the program and students still in progress.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
MS IN BIOMEDICAL INFORMATICS PROGRAM
MAXIMUM DURATION FOR F/T STUDY 5 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1998 THROUGH 2002**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
1998	20	9	9	45.0
1999	31	24	25	80.6
2000	48	22	24	50.0
2001	44	30	36	81.8
2002	35	18	18	51.4

**SCHOOL OF HEALTH RELATED PROFESSIONS
MS IN CLINICAL NUTRITION PROGRAM
MAXIMUM DURATION FOR F/T STUDY 5 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1998 THROUGH 2002**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
1998	7	4	4	57.1
1999	8	7	7	87.5
2000	4	4	4	100.0
2001	5	4	4	80.0
2002	5	5	5	100.0

¹ Retained includes both students who have completed the program and students still in progress.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
DIAGNOSTIC MEDICAL SONOGRAPHY CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 2 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2001 THROUGH 2005**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
2001	12	12	12	100.0
2002	11	11	11	100.0
2003	10	8	9	90.0
2004	7	5	5	71.4
2005	5 ²	4	4	80.0

**SCHOOL OF HEALTH RELATED PROFESSIONS
DIETETIC INTERNSHIP CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 2 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2001 THROUGH 2005**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
2001	18	18	18	100.0
2002	16	16	16	100.0
2003	18	18	18	100.0
2004	15	14	14	93.3
2005	16	16	16	100.0

1 Retained includes both students who have completed the program and students still in progress.

2 One additional student transferred to the SHRP Allied Health Technologies BS program.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
NUCLEAR MEDICINE TECHNOLOGY CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 2 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2001 THROUGH 2005**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
2001	5	4	4	80.0
2002	9	6	6	66.7
2003	5	4	4	80.0
2004	8	7	7	87.5
2005	7 ²	4	4	57.1

**SCHOOL OF HEALTH RELATED PROFESSIONS
PHYSICAL THERAPY MPT PROGRAM – SOUTH³
MAXIMUM DURATION FOR F/T STUDY 4 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1999 THROUGH 2003**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained¹	% Retained of All Beginning
1999	21	20	20	95.2
2000	21	20	20	95.2
2001	9	9	9	100.0
2002	20	16	16	80.0
2003	13	11	11	84.6

1 Retained includes both students who have completed the program and students still in progress.

2 Two additional students transferred to the SHRP Allied Health Technologies BS program.

3 This program became a DPT (Doctorate in Physical Therapy) program in June 2006. The last MPT cohort entered in the summer 2006 term.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
PHYSICIAN ASSISTANT MS PROGRAM¹
MAXIMUM DURATION FOR F/T STUDY 4 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1999 THROUGH 2003**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained²	% Retained of All Beginning
1999	86	81	81	94.2
2000	68	62	62	91.2
2001	79	72	72	91.1
2002	50	41	41	82.0
2003	53	47	49	92.5

**SCHOOL OF HEALTH RELATED PROFESSIONS
VASCULAR TECHNOLOGY CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 2 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2001 THROUGH 2005**

	Number in Beginning Cohort (100%)	Total Number Graduated	Total Number Retained²	% Retained of All Beginning
2001	6	4	4	66.7
2002	13	12	12	92.3
2003	6	6	6	100.0
2004	4	3	3	75.0
2005	4 ³	3	3	75.0

1 The maximum program duration was changed from three years to four years in 2006.

2 Retained includes both students who have completed the program and students still in progress.

3 Three additional students transferred to the SHRP Allied Health Technologies BS program.

Note: The Newark Physician Assistant MS program closed in 2002.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
CYTOTECHNOLOGY BS PROGRAM
MAXIMUM DURATION FOR F/T STUDY 3 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2000 THROUGH 2004**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
2000	6	6	100.0
2001	7	7	100.0
2002	1	1	100.0
2003	4	4	100.0
2004	4	3	75.0

**SCHOOL OF HEALTH RELATED PROFESSIONS
CYTOTECHNOLOGY CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 3 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2000 THROUGH 2004**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
2000	0	-	-
2001	1	1	100.0
2002	4	4	100.0
2003	3	3	100.0
2004	2	1	50.0

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
DENTAL ASSISTING CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 2 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2001 THROUGH 2005**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
2001	5	5	100.0
2002	19	13	68.4
2003	12	6	50.0
2004	8	7	87.5
2005	10	8	80.0

**SCHOOL OF HEALTH RELATED PROFESSIONS,
DENTAL HYGIENE AAS PROGRAM¹
MAXIMUM DURATION FOR F/T STUDY 4 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1999 THROUGH 2003**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
1999	40	31	77.5
2000	39	37	94.9
2001	33	31	93.9
2002	44	38	86.4
2003	36	30	83.3

¹ The maximum program duration was changed from five years to four years in 2006.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
HEALTH SCIENCES BS PROGRAM
MAXIMUM DURATION FOR F/T STUDY 8 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1996 THROUGH 1999**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
1996	22	2	9.1
1997	12	5	41.7
1998	13	5	38.5
1999	15	8	53.3

**SCHOOL OF HEALTH RELATED PROFESSIONS
MEDICAL LABORATORY SCIENCE¹ BS PROGRAM
MAXIMUM DURATION FOR F/T STUDY 3 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2000 THROUGH 2004**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
2000	12	11	91.7
2001	9	9	100.0
2002	4	3	75.0
2003	8	7	87.5
2004	17	16	94.1

¹ Program name changed from Medical Technology to Medical Laboratory Science in 2005.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
MEDICAL LABORATORY SCIENCE¹ CERTIFICATE PROGRAM
MAXIMUM DURATION FOR F/T STUDY 3 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 2000 THROUGH 2004**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
2000	4	4	100.0
2001	0	-	-
2002	1	0	0.0
2003	2	2	100.0
2004	3	1	33.3

**SCHOOL OF HEALTH RELATED PROFESSIONS
PSYCHOSOCIAL REHABILITATION AS PROGRAM
MAXIMUM DURATION FOR F/T STUDY 4 YEARS²
STUDENTS BEGINNING IN CALENDAR YEARS 1999 THROUGH 2003**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
1999	6	5	83.3
2000	14	2	14.3
2001	27	11	40.7
2002	17 ³	6	35.3
2003	32 ⁴	9	28.1

1 Program name changed from Medical Technology to Medical Laboratory Science in 2005.

2 The maximum program duration was changed from five years to four years in 2006.

3 Two additional students transferred to the SHRP Psychiatric Rehabilitation and Psychology BS program.

4 One additional student transferred to the SHRP Psychiatric Rehabilitation and Psychology BS program.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS
PSYCHIATRIC REHABILITATION BS PROGRAM
MAXIMUM DURATION FOR F/T STUDY 8 YEARS
STUDENTS BEGINNING IN CALENDAR YEARS 1996 THROUGH 1999**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
1996	20	6	30.0
1997	3	1	33.3
1998	18	11	61.1
1999	14	4	28.6

**SCHOOL OF HEALTH RELATED PROFESSIONS,
RESPIRATORY THERAPIST AAS PROGRAM¹ – SOUTH
MAXIMUM DURATION FOR F/T STUDY 4 YEARS²
STUDENTS BEGINNING IN CALENDAR YEARS 2000 THROUGH 2003**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
2000	12	9	75.0
2001	19	13	68.4
2002	19	12	63.2
2003	16	10	62.5

1 This program was changed from a certificate program to an AAS program in 2000.

2 The maximum program duration was changed from three years to four years in 2006.

**GRADUATION AND RETENTION
AS OF JUNE 2007**

**SCHOOL OF HEALTH RELATED PROFESSIONS,
RESPIRATORY THERAPIST AS PROGRAM - NORTH
MAXIMUM DURATION FOR F/T STUDY 4 YEARS¹
STUDENTS BEGINNING IN CALENDAR YEARS 1999 THROUGH 2003**

	Number in Beginning Cohort (100%)	Total Number Graduated	% Graduated
1999	31	15	48.4
2000	22	10	45.5
2001	15	6	40.0
2002	18	7	38.9
2003	16	9	56.3

¹ The maximum program duration was changed from three years to four years in 2006.

**2008 UMDNJ MEDICAL GRADUATES PLACED IN
FIRST-YEAR HOUSESTAFF PROGRAMS
As of April 23, 2008**

UMDNJ School	Number Seeking Placement	Percent Placed in the Match	Percent Placed Outside the Match	Number (Percent) Placed	Number Not Placed
NJMS	145 *	96.6	2.1	143 (98.6)	2
RWJMS-NB/P	100 **	98.0	2.0	100 (100.0)	0
RWJMS-C	52 §	96.2	3.8	52 (100.0)	0
SOM	88 §§	87.5	12.5	88 (100.0)	0
TOTAL	385	94.8	4.7	383 (99.5)	2

UMDNJ School	Number (Percent) Placed in NJ Programs	Number (Percent) Placed in UMDNJ Programs	Percent Placed in Primary Care Programs †	Percent Placed in Specialty Programs	Percent Placed in Trans/Trad. Rotating Prog. ††
NJMS	44 (30.8)	22 (15.4)	40.6	51.0	8.4
RWJMS-NB/P	29 (29.0)	18 (18.0)	43.0	46.0	11.0
RWJMS-C	12 (23.1)	9 (17.3)	50.0	38.5	11.5
SOM	34 (38.6)	29 (33.0)	52.3	18.2	29.5
TOTAL	119 (31.1)	78 (20.4)			

Note: Numbers may not add due to rounding.

† Primary care includes internal medicine, family medicine, pediatrics and OB/GYN programs.

†† Osteopathic traditional (rotating) internships are considered primary care within the osteopathic profession.

* One additional graduate will enter a one-year general surgery residency as part of the NJMS oral and maxillofacial surgery program, and one graduate has deferred placement for one year.

** One additional graduate, an MD/PhD student, is not pursuing placement at this time.

§ One additional graduate has deferred placement in order to conduct research at Harvard Medical School.

§§ Two additional graduates will pursue an MPH degree, and one graduate has deferred placement.

Source: 2008 Report on Medical/Dental Intern and Resident Placements of UMDNJ Graduates and Recruitment into UMDNJ-Sponsored Housestaff Programs, UMDNJ-Office of Institutional Research.

**2008 UMDNJ DENTAL GRADUATES PLACED IN
GRADUATE DENTAL EDUCATION PROGRAMS
As of March 31, 2008**

UMDNJ School	Number Seeking Placement	Percent Placed in the Match	Percent Placed Outside the Match	Number (Percent) Placed	Number Not Placed
NJDS	59 †	64.4	33.9	58 (98.3)	1*

UMDNJ School	Number (Percent) Placed in NJ Programs	Number (Percent) Placed in UMDNJ Programs	Percent Placed in General Practice Programs	Percent Placed in Specialty Programs
NJDS	28 (43.3)	8 (13.8)	77.6	22.4

† Twelve additional graduates plan to enter practice.

* This graduate plans to enter practice.

Source: 2008 Report on Medical/Dental Intern and Resident Placements of UMDNJ Graduates and Recruitment into UMDNJ-Sponsored Housestaff Programs, UMDNJ-Office of Institutional Research.

POSTDOCTORAL APPOINTEES, 2007-2008*

School	Number
New Jersey Dental School	3
New Jersey Medical School	67
Robert Wood Johnson Medical School	67
School of Health Related Professions	8
School of Osteopathic Medicine	4
Total	149

* As of October 1, 2007

Source: Enrollment Statistics Report, Fall 2007, UMDNJ-Office of the University Registrar.

PROFILE OF FACULTY, STAFF, INTERNS & RESIDENTS

Faculty	83
Master Educators	84
Endowed Chairs	88
Medical & Dental Interns, Residents and Fellows	91
Non-Faculty Employees	97

UMDNJ FACULTY Academic Year 2007-2008

SCHOOL	Paid Faculty*				Volunteer Faculty**			
	Tenured	Tenure Track	Non-Tenured	Total	Male	Female	Total	
New Jersey Medical School	154	77	574	805	518	287	805	1,373
Robert Wood Johnson Medical School	147	68	847	1,062	647	415	1,062	1,691
School of Osteopathic Medicine	21	9	165	195	117	78	195	382
New Jersey Dental School	30	8	168	206	162	44	206	148
School of Health Related Professions	11	12	310	333	105	228	333	311
School of Nursing	8	11	124	143	14	129	143	146
School of Public Health	11	14	47	72	35	37	72	131
UMDNJ Total	382	199	2,235	2,816	1,598	1,218	2,816	4,182

Note: Graduate School of Biomedical Sciences' faculty hold primary appointments in the medical or dental schools.

* Includes 100% coterminous faculty

** Duplicated Headcount (unduplicated headcount = 4,113)

Source: Annual Faculty Data Report, Academic Year 2007-2008, UMDNJ-Office of Institutional Research.
Data as of October 1, 2007

MASTER EDUCATORS' PROGRAM AT UMDNJ

BACKGROUND

Purpose: Although education is the primary mission of the University, faculty members often garner greater recognition internally and externally for their research and clinical accomplishments than their excellence as educators. This paradox is by no means unique to UMDNJ, but quite common in academic health centers, in which excellence in education often is subordinated to research and clinical achievements in promotion and tenure decisions.

To emphasize the value placed upon faculty excellence in teaching, consistent with the University's strategic goals, Dr. Stuart Cook formally launched the Master Educators' Program at UMDNJ at his inauguration on April 9, 1999. Shortly thereafter, a University-wide committee chaired by the Dean of the UMDNJ-School of Health Related Professions (SHRP) was convened to determine the scope of the program and the general criteria to be employed in selecting Master Educators throughout the Schools of the University. The committee recommended the creation of a UMDNJ Master Educators' Guild, charged to help the University forge excellence in education throughout its Schools and to provide leadership in the continuous improvement of the teaching/learning continuum of the University's educational mission through educational scholarship, research and innovation. In June 2004, the Guild was officially named the Stuart D. Cook, M.D. Master Educators' Guild, in honor of its founder.

The Stuart D. Cook, M.D. Master Educator Award recognizes faculty members for a commitment to excellence in education as demonstrated over a long period of time. It moves beyond the concept of excellence in teaching to the more global concept of education, which includes the considerations of learning and teaching styles, and the multiple settings in which education occurs at UMDNJ. Toward this purpose, the recipients of the Stuart D. Cook, M.D. Master Educator Award are expected to work together in the Stuart D. Cook, M.D. Master Educators' Guild to continuously improve education at UMDNJ. Through a formal structure and bylaws that were first approved in September 2001 and revised in 2005, the Guild provides a stable foundation and home for the Master Educators to bring their influence to bear on the improvement of education throughout the Schools of UMDNJ and to share this expertise with educators in health sciences venues across the nation.

Criteria: Nominees for Master Educator designation must demonstrate:

- Exceptional teaching skills in either a traditional modality of education (lecture, laboratory or clinical teaching) or an alternative form of teaching such as web-based education or another form of distance learning.
- Creativity in curricular design or innovation in the delivery of education to students; currency in knowledge.
- The requisite level of scholarship.
- Efficiency and effectiveness in teaching.
- The ability to engender enthusiasm among students, such that they are motivated to master the relevant subject matter or clinical competency.
- High regard as an excellent educator by his/her peers.

Within these general University-wide guidelines, each School of UMDNJ has developed specific criteria for selection and has established a Master Educator Review Committee comprising faculty, students and faculty administrators.

ACCOMPLISHMENTS TO DATE

Induction of Guild Members: In September 2000, the first 12 Master Educators were selected and inducted into the newly formed Master Educators' Guild. Additional classes have been inducted annually, with a current total of over 66 members from the eight Schools of the University. It is a diverse group with regard to professional background and focus, and in 2006 the first librarian was inducted.

The Guild is actively engaged in several projects, described below.

Online Resource Center for Professionalism and Academic Integrity (2008 - ongoing)

The Guild is creating an **Online Resource Center for Professionalism and Academic Integrity**. The audiences for the Resource Center will be both the internal UMDNJ community (administrators, faculty and students), and those external to the University with shared interests in promoting professionalism and academic integrity in the health professions. The overall goal of the Resource Center is to promote academic integrity and professionalism both within and outside the UMDNJ community via the online provision of appropriate information resources and training.

Specific objectives of the proposed Resource Center are:

1. Establish and maintain a network of faculty groups (e.g., School committees) and administrators to identify and promote University-wide best-practices, academic integrity strategies and professionalism initiatives;
2. Consolidate and make more readily accessible all applicable University and School codes, statements and policies and procedures related to professional behavior and academic integrity;
3. Provide appropriate training programs for UMDNJ students on academic integrity;
4. Serve as a gateway to resources on professionalism and academic integrity practices (including those developed within UMDNJ) specifically targeted to the needs of faculty, students and administrators in health professions education.

Master Educators' Strategic Plan (2008)

The Guild developed its first 5-year strategic plan on April 1, 2008. The plan will form the framework around which the Guild will operate in the next five years. The plan identified five strategic goals and strategies to accomplish these goals. The strategic goals are:

1. Facilitate teaching and education excellence for faculty and students (infrastructure)
2. Increase emphasis on teaching as a valued role in mission triad
3. Increase impact and visibility of Guild with administration, faculty and students
4. Improve internal organizational structure and effectiveness of Guild
5. Expand active participation of Guild members

Master Educator's Website (<http://meg.umdni.edu>) (2008)

The purpose of the website is to provide its members online access to documents pertaining to the operation and structure of the Guild. It also serves as a forum for its members to share ideas related to promoting excellence in teaching.

Online Center for Excellence in Health Sciences Education and Teaching (<http://cte.umdni.edu>): This Center, which helps the Guild achieve its role in promoting educational excellence through the innovative use of information technologies, was established and funded through the University's Educational Technology Mini-Grant Program. The Center has three primary goals: to support, promote and enhance School and University-wide faculty development, furthering collaboration across the University by overcoming the barriers of time and place; to serve as a comprehensive resource center for the health sciences teaching community at large, projecting the University's educational expertise outward to the worldwide Internet community; and to provide a "virtual home" for the Master Educators' Guild. Officially launched during the 2004 University Day ceremonies, the Center's website provides a venue for the following activities:

- Coordinate and disseminate information on faculty development opportunities provided by the UMDNJ Schools (via an interactive online calendar).
- Provide University-wide mentoring and consultation services (via a new faculty mentoring program, a searchable database of faculty consultants, and a consultation discussion forum).
- Offer selected online programming of broad interest and appeal (via WebCT courses/tutorials).
- Publish and provide desk-top delivery of regular features on selected teaching and learning topics (e.g., educational technology, student evaluation, problem-based learning, clinical education, etc.).
- Serve as a dynamic repository of scholarly information on teaching and learning in the health professions (via provision of prestructured PubMed bibliographic queries and a large searchable database of relevant educational literature).
- Serve as a gateway to related sites (including other online University teaching centers and education and technology e-journals).
- Provide opportunities for external enrollment in selected online courses and tutorials offered by the University and/or Guild.
- Serve as the Guild's electronic archives, providing background information on the Guild, its origin, purpose, history and achievements.
- Provide a Guild Gallery, to include members' biographies and links to their research/scholarship.
- Furnish a gateway to the Guild's collaborative intranet.

Use of the Center for Teaching Excellence is robust. It was visited over 30,000 times from May to June, 2007, representing a 92% increase in visits over last year. Visitors came from all six populated continents, with 86 percent being new to the Center and 14 percent being return users. Most external visitors found the Center via a Google search. All sections of the web site saw an increase in pageviews over last year. Active Learning was the most visited section of the Center, followed in order by Student Evaluation, Clinical Education, Traditional Teaching, Career Development and the Technology Corner.

Faculty Mentoring Initiative: Academic Mentoring is a major initiative of the Stuart D. Cook, M.D. Master Educators' Guild, reflecting the conviction of the members of the Guild that an organized system of mentoring will promote educational improvement across the University. The Guild already provides informational resources on mentoring through its Online Center, and has developed draft recommendations and guidelines on faculty mentoring. The guidelines first provide an overview of successful mentoring models, including the roles and responsibilities of both mentors and mentees. They then focus on mentoring at UMDNJ, including structure, responsibilities, incentives, evaluation and the role of the Stuart D. Cook, M.D. Master Educators' Guild in the process.

Academic Integrity Initiative: In association with the theme of Academic Integrity selected by the Master Educators' Guild for its AY 2005-2006 Grand Rounds and Symposium (see below), the Guild formed a Committee on Academic Integrity. The Committee has gathered data from all Schools to determine the current status of academic integrity and activities designed to foster academic integrity at UMDNJ; analyzed the existing honor codes and codes of ethics of each School; and prepared a "white paper" that presents recommendations for unification or standardization of guidelines among all Schools. The Committee disseminated the document to the UMDNJ President and Academic Deans for review/adoption.

Annual Master Educators' Guild Symposia: Since 2002, the Guild has sponsored a series of annual symposia open to all faculty of the University on topics it believes to be integral to its purposes. Each has featured a distinguished keynote speaker as well as workshops, demonstrations, discussion groups or poster sessions led by Master Educators and other faculty members. Themes have included educational technology, academic mentoring, the scholarship of teaching and learning, collaboration and interdisciplinary education, and academic integrity. In 2007, the Guild partnered with the NJEdge.Net and the UMDNJ Informatics Institute in hosting a conference entitled Best Practices Showcase: Integrating Technology into Learning.

Annual University Day Educational Grand Rounds: Beginning in 2003, the Master Educators' Guild instituted another innovative approach to the attainment of its mission: Educational Grand Rounds during the annual University Day program in September. Topics generally complement the theme for the spring symposium, and have included professionalism among health care providers, integrating professional education and facilitating collaboration through mentoring, and academic integrity.

ENDOWED CHAIRS

UMDNJ-NEW JERSEY MEDICAL SCHOOL

Wesley J. Howe Chair in Trauma Surgery (1987)
Department of Surgery
David Livingston, MD

Harris L. Willits Chair in Urology (1987)
Department of Surgery
Mark L. Jordan, MD

Francois-Xavier Bagnoud Chair in Pediatric Allergy (1990)
Department of Pediatrics
James M. Oleske, MD

Ledyard H. Pfund Chair in Medicine (1993)
Dorothy Vatner, MD

UMDNJ Endowed Professor of Geriatric Medicine (1994)
(vacant)

UMDNJ Endowed Professor of Emerging and Re-Emerging Infectious Diseases
(1998)
Jerrold J. Ellner, MD

Ruth Dunietz Kushner and Michael Jay Serwitz Chair in Multiple Sclerosis (1999)
Stuart D. Cook, MD

Frederick F. Buechel, MD, Chair for Joint Replacement (2003)
(Vacant)

Rena Warshow Chair in Multiple Sclerosis (2003)
Teresa L. Wood, PhD

The Sharon and Joseph Muscarelle Endowed Dean (2005)
Robert L. Johnson, MD

The Thomas P. Infusino Chair (2005)
Andrew P. Thomas, PhD

UMDNJ-NEW JERSEY DENTAL SCHOOL

Robert and Susan Carmel Chair in Algesiology (1995)
Eli Eliav, PhD

UMDNJ Endowed Professor of Community Health (1993)
Hillary L. Broder, PhD, MEd

UMDNJ Endowed Professor of Dental Public Health (2000)
(*vacant*)

UMDNJ-ROBERT WOOD JOHNSON MEDICAL SCHOOL

John G. Detwiler Professor of Cardiology (1985)
Department of Medicine
John B. Kostis, MD

William H. Conzen Chair in Clinical Pharmacology (1987)
CABM (Center for Advanced Biotechnology and Medicine)
(*Vacant*)

UMDNJ Endowed Professor of Public Health (1988)
George Rhoads, MD, MPH

William Dow Lovett Chair in Neurology (1990)
Department of Neurology
Mary Maral Mouradian, MD

Richard C. Reynolds Chair in General Internal Medicine (1996)
Department of Medicine
Jeffrey L. Carson, MD

Philip D. Gilbert Chair in Radiology (1997)
Department of Radiology-Camden
(*Vacant*)

The Laura Gallagher Chair in Developmental Biology at the Child Health Institute of New Jersey (2000)
(*Vacant*)

The Unilever Chair for the Study of Diet and Nutrition in the Prevention of Chronic Diseases at the Cancer Institute of New Jersey (2000)
(*Vacant*)

The Harold L. Paz, MD, Chair in Developmental Biology at the Child Health Institute of New Jersey (2000)
Robert L. Trelstad, MD

Melvyn and Ab Motolinsky Chair in Medicine for Hematology (2000)
Department of Medicine
Parvin Saidi, MD

Takara Endowed Chair in Bioinformatics (2001)
Department of Biochemistry
Masayori Inouye, PhD

The James W. Mackenzie, MD, Chair in Surgery (2001)
Peter Scholz, MD

Norman and Ruth H. Rosenberg Chair in Vascular Surgery (2002)
Department of Surgery
Alan M. Graham, MD

Richard Harvey Professorship in Innovative Teaching (2002)
Stephen F. Lowry, MD

Norman Edelman Professorship in Bioinformatics (2002)
Department of Pharmacology
William J. Welsh, PhD

Thomas Strax, MD/JFK Johnson Rehabilitation Institute Professorship (2004)
(Vacant)

Merck Research Laboratories Professorship in Clinical Pharmacology (2004)
(Vacant)

UMDNJ Endowed Professor of Community Health and Health Policy (2006)
(Vacant)

Janis and Gary Grover Endowed Professor in Physiology and Biophysics
(Vacant)

UMDNJ-SCHOOL OF OSTEOPATHIC MEDICINE

UMDNJ Endowed Professor of Gerontology (1991)
Rachel A. Pruchno, PhD

Osteopathic Heritage Endowed Chair for Primary Care Research (2005)
Thomas Cavalieri, DO

UMDNJ-SCHOOL OF NURSING

Francois-Xavier Bagnoud Chair in Community Pediatric Nursing
(vacant)

UMDNJ Endowed Professor of Oncology (2004)
(vacant)

UMDNJ-SCHOOL OF PUBLIC HEALTH

UMDNJ Endowed Professor of Dental Public Health (2000)
(vacant)

UMDNJ-SCHOOL OF HEALTH RELATED PROFESSIONS

UMDNJ Endowed Professor of Complementary and Alternative Medicine (2002)
Adam I. Perlman, MD

MEDICAL AND DENTAL INTERNS, RESIDENTS AND FELLOWS

HOUSESTAFF TOTALS BY PROGRAM, 2007-2008 UMDNJ-NEW JERSEY MEDICAL SCHOOL

PROGRAM	TOTAL HOUSESTAFF
Allergy/Immunology	4
Anesthesiology	28
Cardiology	10
Dermatology	6
Dermatology/Pathology	1
Emergency Medicine	19
Endocrinology	2
Endovascular Neuroradiology	2
Family Medicine	28
Gastroenterology	9
Hepatology	3
IM/Geriatrics	2
IM/Pediatrics	13
Infectious Diseases	6
Internal Medicine	110
Medical Genetics	1
Musculoskeletal Oncology	2
Nephrology	6
Neurology	19
Neurology-Child	4
Neurology-Multiple Sclerosis	1
Neurology-Surgery	13
Neurology-Vascular	1
OB/GYN	28
OB/GYN-Maternal/Fetal	1
OB/GYN-Reproductive Endocrinology & Infertility	3
Ophthalmology	15
Orthopaedics	30
Orthopaedics/Hand Surgery	1
Otolaryngology	10
Pathology	13
Pediatrics	52
Pediatric Allergy & Immunology	1
Pediatric Infectious Diseases	3
Physical Medicine & Rehabilitation	27
PM&R-Musculoskeletal Rehabilitation	2

PROGRAM	TOTAL HOUSESTAFF
PM&R-Spinal Cord Injury	1
PM&R-Stroke Rehabilitation	1
PM&R-Traumatic Brain Injury	2
Plastic Surgery	5
Psychiatry	29
Psychiatry/Child	5
Pulmonary Critical Care	9
Radiology-Diagnostic	20
Surgery	58
Surgical Critical Care	2
Urology	8
Vascular Surgery	4
Total	620

Percent American Medical Graduates = 56.9

Source: Survey of UMDNJ GME and GDE Programs and Housestaff, UMDNJ-Office of Institutional Research. Data as of September 1, 2007

HOUSESTAFF TOTALS BY PROGRAM, 2007-2008
UMDNJ-ROBERT WOOD JOHNSON MEDICAL SCHOOL

PROGRAM	TOTAL HOUSESTAFF
Anesthesiology	30
Anesthesiology-Cardiac	2
Anesthesiology-Pain Management	3
Cardiology	12
Cardiology-Interventional	1
Colon-Rectal Surgery	3
Cranio-Facial Surgery	1
Dermatology	3
Emergency Medicine	1
Endocrinology	4
Family Practice	42
FP/Geriatric Medicine	4
FP/Sports Medicine	1
Gastroenterology	7
Health Policy	1
Hematology/Oncology	10
Infectious Diseases	4
Internal Medicine	80
Neonatal/Perinatal Medicine	6
Nephrology	4
OB/GYN	23
OB/GYN-Maternal/Fetal	3
Orthopaedics	18
Pathology	8
Pathology/Hematology	1
Pediatric Critical Care	2
Pediatrics	37
Preventive Medicine/Occupational Medicine	3
Psychiatry	21
Psychiatry-Child	8
Pulmonary Critical Care	6
Radiology/Diagnostic	20
Radiology/Oncology	6
Rheumatology	2
Surgery	42
Surgery-Breast	1

PROGRAM	TOTAL HOUSESTAFF
Thoracic Surgery	2
Urology	8
Vascular Surgery	2
Total	432

Percent American Medical Graduates = 73.0

Source: Survey of UMDNJ GME and GDE Programs and Housestaff, UMDNJ-Office of Institutional Research. Data as of September 1, 2007

HOUSESTAFF TOTALS BY PROGRAM, 2007-2008
UMDNJ-SCHOOL OF OSTEOPATHIC MEDICINE

PROGRAM	TOTAL HOUSESTAFF
Cardiology	8
Critical Care	2
Emergency Medicine	19
Endocrinology	1
Family Practice	25
Gastroenterology	1
Geriatrics (IM)	2
IM/Emergency Medicine	11
Infectious Diseases	2
Internal Medicine	25
Internship	58
Nephrology	4
OB/GYN	4
Oncology	1
Orthopaedics	18
Otolaryngology	5
Psychiatry	7
Psychiatry-Child	1
Pulmonary Critical Care	2
Surgery	20
Urology	4
Total	220

Percent American Medical Graduates = 100.0

Source: Survey of UMDNJ GME and GDE Programs and Housestaff, UMDNJ-Office of Institutional Research. Data as of September 1, 2007

RESIDENT TOTALS BY PROGRAM, 2007-2008
UMDNJ-NEW JERSEY DENTAL SCHOOL

PROGRAM	TOTAL HOUSESTAFF
General Practice Residency	1
Oral & Maxillofacial Surgery	13
Pediatric Dentistry	10
Total	24

Percent American Medical Graduates = 91.7

Source: Survey of UMDNJ GME and GDE Programs and Housestaff, UMDNJ-Office of Institutional Research. Data as of September 1, 2007

NON-FACULTY FULL- AND PART-TIME EMPLOYEES

(As of July 1, 2008)

	Total	% Black	% Hispanic	% Asian	% Women
Executive/Administrative/Managerial	751	23.8	6.0	7.9	62.8
Professional Non-Faculty	5,852	21.8	7.0	25.9	68.7
Secretarial/Clerical	2,041	48.4	15.7	6.0	87.5
Technical/Para-professional	1,627	41.0	13.0	14.3	65.8
Skilled Craft	265	37.0	13.2	8.7	2.3
Service/Maintenance	868	59.0	16.1	4.4	51.0
Total All Categories	11,404	31.3	10.1	19.1	67.4

Note: Does not include student assistants and graduate students.

MEETING THE STATE'S NEEDS

Public and Community Service	98
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PUBLIC AND COMMUNITY SERVICE AT UMDNJ

Community service is a distinct component of the University's four-part mission, and also plays an integral role in the educational, research and health care endeavors of UMDNJ. The University offers a myriad of programs and activities that serve our State and advance the health and quality of life of its residents.

By providing more than 240 community service programs throughout the State, UMDNJ extends prevention, health care and related services to all of New Jersey's communities. Many of these programs target medically needy populations or those at high risk of particular health problems. A Community Resource Directory outlining all major community programs, activities and initiatives offered to the public, including health promotion, disease prevention, educational enrichment, neighborhood development and economic empowerment, is on UMDNJ's Urban and Community Development Website: www.umdj.edu/comreweb.

All of the Schools of UMDNJ provide students with opportunities for clinical education in community-based programs and settings, and foster cultural sensitivity and competence.

Many sponsored research programs at UMDNJ focus on New Jersey's most urgent health problems. University faculty and scientists are helping to advance prevention and treatment in such areas as cancer; the effects of environmental agents on human health; biodefense; HIV/AIDS; tuberculosis; heart disease; neurological diseases; women's health; child and adolescent health; mental health; oral health; health disparities; and aging.

UMDNJ faculty and staff also participate in numerous boards and organizations, volunteering many hours to address health, education and other issues affecting New Jersey.

UMDNJ's commitment to public service is further exemplified by our substantial employment of urban and minority residents, the purchase of goods and services from minority-owned and special vendors, and partnerships with community-based organizations. These activities contribute to the redevelopment and economic growth of the cities and regions that host the University's campuses.

Provided here are highlights of a few of the many University programs and services that continue to make a positive impact in New Jersey. For more offerings and updated information, visit UMDNJ's Urban and Community Development Website at www.umdj.edu/comreweb and select "Community Resource Directory."

EXAMPLES OF PUBLIC / COMMUNITY SERVICE ACTIVITIES

ALLIED DENTAL EDUCATION (SHRP)

The Department of Allied Dental Education provides clinical dental preventive services to approximately 400 New Jersey veterans through affiliation with the Veteran's Administration Hospital in Orange, N.J. Dental hygienists in clinical rotations at New Jersey Dental School (NJDS) in Newark and at SHRP's dental clinical facility on the Scotch Plains campus also provide preventive dental treatment to members of the public. While at NJDS, Dental Assisting students assist dental students in providing dental patient services. The faculty and students from the Department's Dental Assisting and Hygiene programs also provide community service presentations to thousands of participants at over 30 events annually at various locations throughout New Jersey. These events include health fairs, classroom presentations, career fairs, shadowing programs and special events during Children's Dental Health Month in February, such as the national Give Kids A Smile program and related activities.

ANCORA AND GREYSTONE PARK CLINICAL AFFILIATION (SHRP)

The overall purpose of the Greystone Park affiliation is to enhance the quality of patient care services at this state psychiatric hospital by improving the competencies of direct care staff. To that end, five faculty members from the Department of Psychiatric Rehabilitation provide a variety of programming and technical assistance initiatives that impact some 250 patients at Greystone Park annually. These initiatives include on-site undergraduate psychiatric rehabilitation course work, in-service training to improve staff group work skills, and specialized programs like the Program Readiness Mall for patients unable to use traditional hospital programs.

ANTI-STIGMA INITIATIVE

"Meeting and Learning from People with Mental Illness" (SHRP)

In collaboration with persons with serious mental illness and Collaborative Support Programs of New Jersey, SHRP faculty provide 30 presentations annually to over 800 children and adults in middle schools, high schools, colleges, and community groups. Those attending meet people with mental illness and learn from them about their recovery and the importance of seeking help.

ASIAN RISK ASSESSMENT COURSE (SPH)

In collaboration with New Jersey Institute of Technology, the UMDNJ-School of Public Health taught environmental risk assessment in a month-long course funded by the Asian Development Bank. This was the fifth year that the course was taught in Bangkok, Thailand at Chulalongkorn University. The School also continues to assist the faculty at Prince of Songkla University in Hat Yai, Thailand in furthering development of the Center for Toxicology and Risk Management, which was established in 2001.

Through collaborative funding from the Environmental Health Sciences Center at UMDNJ, two studies have been initiated in Southern Thailand looking at lead and arsenic contamination in children in two villages working with the Prince of Songkla

University faculty. For more information on this project contact Dr. Mark Robson at robson@aesop.rutgers.edu.

In 2007, UMDNJ along with Rutgers and Chulalongkorn University was awarded an NIH Fogarty ITREOH (International Training and Research Program in Environmental and Occupational Health) Center grant. The Center, located at Chulalongkorn University, provides training and research opportunities relating to environmental and occupational health and exposure to pesticides. The ITREOH site is at <http://thaitreoh.rutgers.edu/>.

BRAIN AND MEMORY PROGRAM (SOM)

Funded by the Wallerstein Foundation, Shop-Rite LPGA and the New Jersey Foundation on Aging, the New Jersey Institute for Successful Aging (NJISA) at UMDNJ-SOM continues to provide programs for community residents in Burlington County, Camden County, Essex County, East Orange, Morris County, and Jamesburg. Sessions are publicly advertised and promoted through local service groups, such as the Rotary, JCC, Lions Clubs, Eldermed (Kennedy Health System), Sassy Seniors of Haddon Heights, Interfaith Caregivers, Saltzman House and senior centers and church groups.

The program includes brain health activities to improve memory, as well as nutrition and exercise. In addition to keeping mind and body healthy, the focus is to increase awareness of the importance of early evaluation of memory problems. This outreach effort, originally launched in September 2004, targets the 55+ age group and is also serving a large church-affiliated minority population in Camden County. It continues to be one of the most requested community programs offered by the NJISA.

BRIDGING THE GAPS (SPH)

In the summer of 2007, UMDNJ-School of Public Health took the lead in participating in Bridging the Gaps. This consortium of universities from around Pennsylvania and Delaware was established in 1988 to encourage service learning. SPH in Stratford created an interdisciplinary team of students from public health and the School of Osteopathic Medicine. The students, who were paid a summer stipend, were placed at the Camden AHEC (Area Health Education Council), where they worked for seven weeks on service projects of benefit to the community. In addition to working four days a week at their site, once a week the students participated in a workshop in Philadelphia on various community issues ranging from violence to oral health to approaches to working with youth. The students worked with inner-city youth on nutrition and physical exercise programs. They conducted health workshops, visited local South Jersey farms, and shopped at the Camden farmers market and cooked healthy meals. They also assisted with a senior project targeting chronic illnesses. This spring SPH expanded its participation in Bridging the Gaps and identified three community sites for summer placements of SPH, SOM and now GSBS students. For more information on Bridging the Gaps, contact Dr. Bernadette West at westbm@umdnj.edu.

CAMDEN CITY HEALTHY FUTURES COMMITTEE **and** **CITY OF CAMDEN COMMUNITY HEALTH ASSESSMENT PROJECT (SPH)**

The Camden City Healthy Futures Committee, whose membership includes representation from the UMDNJ-School of Public Health, the UMDNJ-School of

Osteopathic Medicine and the UMDNJ Institute for the Elimination of Health Disparities, is dedicated to improving the health of the citizens of Camden. The objectives of the Committee are to promote a continuing dialogue among Camden health care and other organizations and initiate a process that promotes a sustainable network for future joint planning and health delivery in the city.

SPH faculty and students on the Stratford/Camden Campus continued to assist the Camden City Healthy Futures Committee in conducting a community health assessment. Faculty and students serve on the committee and are assisting with health planning around targeted public health issues. For more information on this project, contact Dr. Bernadette West at westbm@umdnj.edu or Dr. Sherry Pomerantz at pomerash@umdnj.edu.

CAMDEN CITY SENIOR HEALTH NEEDS ASSESSMENT PROJECT (SPH)

With funding from the Institute for the Elimination of Health Disparities, faculty and students have initiated a senior health needs assessment in the city of Camden. Students conducted in-person interviews with a random sample of at-risk seniors to explore health concerns, barriers to care and ways in which seniors tackle these barriers. Interviews were conducted in four senior citizen buildings in the city. Data from the study are being analyzed and a report is being prepared. This information will be shared with community groups in Camden for health planning purposes. For more information on this project, contact Dr. Bernadette West at westbm@umdnj.edu or Dr. Sherry Pomerantz at pomerash@umdnj.edu.

CAMDEN COMMUNITY HEALTH CENTER (SN)

The Community Health Center (CHC) is a joint venture of the UMDNJ-School of Nursing and the Camden County Council on Economic Opportunity (CCCOEO). CCCOEO invited the participation of the School of Nursing to include health care in its array of services offered to Camden residents. The services provided include primary care with referrals to local acute care facilities, health screening programs, and education and advocacy efforts. The majority served are either uninsured employed residents, uninsured students from local colleges and post-secondary trade schools or unemployed residents receiving Medicaid. The CHC receives financial support from an endowment awarded by the William Randolph Hearst Foundation and from the School of Nursing directly.

CHC provides both primary care and health screenings at the following sites on a regular basis: 1) CCCOEO headquarters; 2) Acelera Early Childhood Center; 3) the Hispanic Family Center; and 4) the Urban Women's Center. These health screenings focus on detection of hypertension, metabolic syndrome, diabetes mellitus, anemia, obesity, hypercholesterolemia, and tuberculosis. In addition, adults with acute episodic health problems and those requiring physical examinations are also cared for at the CHC.

Since its establishment, the CHC continues to be an invaluable resource to Camden City residents. Hundreds of patient contacts are made annually by CHC staff, and its reach is expanding through partnerships with community service organizations. For both prelicensure and graduate level nursing students and students of osteopathic medicine, the CHC provides essential learning regarding the delivery of a broad array of community

services at a local, very accessible level for the residents of Camden City and its environs.

CAMDEN COUNTY HEALTH SERVICES CENTER AT LAKELAND (SOM)

Ira Cuttler, M.D., a UMDNJ-SOM New Jersey Institute for Successful Aging geriatrician, continues to provide primary care medical services to more than 260 residents at Camden County's long-term care facility at Lakeland, with a total of 3,162 visits logged in 2006-2007. This facility is 99 percent Medicaid supported.

THE CAMDEN SATURDAY HEALTH CLINIC (SOM)

This initiative was funded in June 2004 by a "Caring for Community" grant award from the Association of American Medical Colleges (AAMC), in collaboration with the Pfizer Medical Humanities Initiative. SOM was one of only eight medical schools in the country to win this award.

The primary goal of the clinic, which is held every Saturday from 10 a.m. to 1 p.m., is to provide urgent, primary and preventative health care, as well as health education, to the medically underserved population of Camden. To foster an interdisciplinary environment, the Camden Saturday Health Clinic (CSHC) is managed and operated by UMDNJ-SOM students in collaboration with practitioners from an array of health care disciplines. Since the clinic is a collaborative project with the School of Nursing, Dr. Carman Ciervo, Chairman of UMDNJ-SOM Family Medicine, and Dr. Susan Salmond, Dean of the School of Nursing, are continuously exploring ways to enhance the interprofessional cooperation between the two schools to further improve the delivery of healthcare services at the clinic.

Patients are seen by appointment or on a walk-in basis by a team of two medical students who perform the initial patient exam/assessment. An attending physician from the SOM Family Medicine Department then sees the patient and guides the team to develop a treatment plan.

Services offered include acute care for walk-ins; immunizations; school physicals; gynecological testing and pap smears; birth control; HIV testing and counseling; STD education; screening tests for chronic diseases (i.e., high blood pressure, diabetes, obesity, asthma, anemia, and depression); chronic disease management; and health education. Not only does the CSHC provide service to the community, but it also promotes cultural awareness and interdisciplinary experiences for medical students as part of their educational experience. The CSHC is supported by school-sponsored fundraising events as well as by grants and donations.

CANCER INSTITUTE OF NEW JERSEY (RWJMS)

The Cancer Institute of New Jersey (CINJ) is committed to expanding its capacity to provide exceptional and innovative outreach to New Jersey's medically underserved populations. The CINJ Office of Community Outreach works in conjunction with the Gallo Prostate Cancer Center, the Middlesex Country Cancer Coalition, the Healthier New Brunswick 2010 Community Health Advisory Group, the New Jersey Comprehensive Cancer Control Plan members and the New Jersey Cancer Education and Early

Detection program to meet the cancer education and outreach needs of its community constituents.

The Novartis Outreach and Education Project (NOEP)

Established in 1998 with a grant from Novartis Pharmaceutical Corporation, the goal of the Novartis Outreach and Education Project at CINJ is to increase the racial and ethnic diversity of the statewide cancer research clinical trial population. The project combines target outreach and education efforts to both the medically underserved and health care provider segments of New Jersey. The project provides seed funds and program support for local community organizations to provide cancer education and outreach programs throughout the State. This innovative program provides technical and grant support to help community organizations become self-sustaining partners in providing their own cancer education and awareness. The program facilitates increased knowledge and trust, both of which have been shown to be major barriers to cancer clinical trial participation for members of medically underserved groups. Medical literature and the American Cancer Society have published data showing disparities in cancer outcomes, with the African American and Latino population suffering poorer survival rates and later disease stage at diagnosis. In response, many of the current NOEP grantees are focusing specifically on the African American and Latino populations.

The Dean and Betty Gallo Prostate Cancer Center

The Center has developed many strong community ties that have been instrumental in increasing prostate cancer screening and education programs throughout the State, including screenings held at churches, clinics, and village gatherings and advertised through local papers, radio stations, bulletins, food stores, and community centers. The Gallo Center's advocacy has a national reputation, and this year also began new outreach and advocacy programs for women who suffer as those they love deal with prostate cancer and its treatment.

Continuing Umbrella for Research Education

The Continuing Umbrella for Research Education (CURE), originally established in 2003 with a grant from the National Cancer Institute, is now funded by Johnson & Johnson. The program enrolls eight students each year – four from Rutgers and four from the New Brunswick Health Science Technology High School – to conduct research at CINJ. Running for two summers and the academic year in between, the program provides students with an excellent opportunity to experience the research environment and develop and pursue opportunities for careers in science.

Community Activities

CINJ Community Outreach staff work with Robert Wood Johnson University Hospital and other area institutions to offer annual free screenings for prostate, breast and skin cancer. The Office of Outreach also designs curricula for cancer prevention and screening educational programs as well as informative treatment-related lectures to community organizations. Information on cancer screening and clinical trials is offered in both English and Spanish, and the Office of Community Outreach is enhancing its translation service to provide additional patient educational materials on other topics.

Other CINJ Activities

- A patient-relief fund was established with patient donations to assist with transportation, parking, *etc.*, for indigent individuals.

- CINJ is active in New Jersey Cancer Education and Early Detection (NJCEED), a program sponsored by the Centers for Disease Control that provides cancer screenings for uninsured individuals in all 21 New Jersey counties. Our physician faculty members serve actively on NJCEED's Medical Advisory Board, chaired by CINJ's Deputy Director for Extramural Affairs. The CINJ Outreach Director co-chairs the NJCEED educational committee.
- CINJ collaborates with the NJ Commission on Cancer Research and the American Cancer Society on a project funded by Aventis entitled *IMPACT, Improving Minority and Medically Underserved Participation and Access in Clinical Trials*. It is targeted to the Newark, Camden, Trenton, Jersey City, and Paterson communities.
- CINJ collaborates with the UMDNJ-School of Public Health on a grant to identify barriers to participation in cancer clinical trials among African Americans and Hispanics in New Jersey.
- CINJ Office of Community Outreach is active in the development of an educational DVD to increase awareness and knowledge of colorectal cancer screening.
- CINJ Office of Community Outreach is active in the development of clinician-friendly screening guideline pocket guides for breast, prostate, cervical, and colorectal cancer.
- CINJ has partnered with the National Cancer Institute's Information Service to develop a series of symposia on evidence-based outreach programming. These symposia will be offered free of charge to CINJ Network institutions, community organizations and the general public. CINJ has also hosted similar symposia on health literacy and cultural competency.

CARES INSTITUTE (SOM)

The Child Abuse Research Education and Service (CARES) Institute at SOM provides state-of-the-art medical and mental health services to children and families who have experienced child abuse and neglect. CARES also provides a wide variety of training and educational services to the community, directed towards children, parents, teachers, social workers, law enforcement, mental health clinicians, and/or medical professionals.

Below is a list of training and educational activities provided to community members and professionals in fiscal year 2008:

July and August 2007

Introduction to Trauma Focused Cognitive Behavioral Therapy
Best Practices for Children Exposed to Trauma

September 2007

Sexual Harassment Awareness for Adolescents
Introduction to Trauma Focused Cognitive Behavioral Therapy
Best Practices for Children Exposed to Trauma
Date Rape Awareness for Adolescents

October 2007

Introduction to Trauma Focused Cognitive Behavioral Therapy

November 2007

Body Safety & Preventing Child Sexual Abuse
Introduction to Trauma Focused Cognitive Behavioral Therapy

December 2007

Date Rape Awareness for Adolescents
Introduction to Trauma Focused Cognitive Behavioral Therapy

January 2008

Introduction to Trauma Focused Cognitive Behavioral Therapy
Best Practices for Child Sexual Abuse Treatment
Introduction to Combined Parent-child Cognitive Behavioral Therapy for Families at-Risk for Physical Abuse

February 2008

Introduction to Trauma Focused Cognitive Behavioral Therapy
Best Practices for Children Exposed to Trauma
Effective Advocacy for Adolescents with Trauma Histories
Detecting, Reporting, and Preventing Child Abuse in Your Patients
Update on Childhood Immunizations

March 2008

Best Practices for Children Exposed to Trauma
Introduction to Trauma Focused Cognitive Behavioral Therapy
Sexual Abuse Awareness
Detecting, Reporting, and Preventing Child Abuse in Your Patients
"Finding Words" Training for Child Welfare and Law Enforcement Professionals
Investigating Child Abuse

April 2008

Overview of Medical and Mental Health Services Available at CARES Institute
Best Practices for Children Exposed to Trauma
Introduction to Trauma Focused Cognitive Behavioral Therapy
Understanding Sexual Victimization of Children
Impact and Treatment of Childhood Trauma
Victim Reconciliation Issues
Impact of Child Sexual Abuse and Domestic Violence on Families

May 2008

Child Abuse Awareness

June 2008

Overview of Medical and Mental Health Services Available at CARES Institute
Child Abuse Awareness

CENTER FOR BIODEFENSE (NJMS)

UMDNJ established the Center for BioDefense in 1999 in anticipation of bioterrorism attacks taking place in the United States. Since its founding, the Center has grown into a leading entity in the area of counter-terrorism, biodefense and emergency management. In light of the terrorist attacks in 2001, and of the President's commitment

to protect America against future attacks, we are proud that New Jersey is able to join national efforts through the Center for BioDefense at UMDNJ. The breadth of the projects that the Center is supporting demonstrates the Center's close relationship with State efforts to increase New Jersey's state of preparedness. The Center has gained a state and national reputation for its leadership and rapid response to the new age of bioterrorism. Since October 2001, members of the Center have embarked on an ambitious schedule of seminars, conferences, and other training sessions to educate scientists, clinicians, first responders, public health professionals, and the general public on terrorism and biodefense. Its members testify in Congress, deliver briefings, and serve on committees of the National Academies of Science and the American Association for the Advancement of Science.

CENTER FOR HEALTH ECONOMICS AND HEALTH POLICY (SPH)

The School of Public Health's Center for Health Economics and Health Policy collaborates with the Rutgers University-Institute for Health, Health Care Policy and Aging Research to present the Wednesday Noon Health Economics Seminar Series. Presentation topics for this past year included:

- The Impact of Public Basic Research on Industrial Innovation: Evidence from the Pharmaceutical Industry
- An Economist Looks at Health Risk Calculators
- Effects of Layoffs and Plant Closings on Depression among Older Workers
- Overweight Children: Assessing the Contribution of the Built Environment
- Overweight in Adolescents: Implications for Health Expenditures
- Spousal Effects in Smoking Cessation: Matching, Learning, or Bargaining?
- Estimating the Impact of Physician Incentives on Healthcare
- Utilization: A Structural Misclassification Error Model
- Do You Get What You Pay For? The Relationship Between Premiums and Benefits in Medicare Prescription Drug Plans
- Ownership Conversion by Nursing Homes and the Quality of Care

For information about the Seminar series, please contact Dr. Alan Monheit at moheiac@umdnj.edu.

CENTER FOR SCHOOL AND COMMUNITY HEALTH EDUCATION (SPH)

The Center for School and Community Health Education (CSCHE), headquartered in New Brunswick, follows a mission to empower diverse populations to make informed decisions about their health through innovative outreach, creative partnerships and applied research. CSCHE translates leading scientific research into comprehensive educational materials through several outreach initiatives including professional development; curriculum development; website development for classroom enhancement and parental involvement; the Safe Schools Program; and community outreach.

Professional Development

Training workshops support the use of CSCHE materials and the integration of health-based topics into school curricula. Through hands-on workshops, participants experience the curricular materials as both students and teachers, promoting teachers

as learners. Participants familiarize themselves with the activities, discovering how the lessons and activities are interrelated and build upon one another, ultimately preparing them for the classroom. CSCHE workshops are designed to meet the specific needs of each target audience. To achieve this goal, CSCHE employs several teacher training models, including national train-the-trainer programs; regional teacher workshops held primarily during the summer; and both short- and long-term district collaborations to train all teachers at a specific grade level(s). To date, CSCHE's programs and services have impacted more than 7,200 teachers and 140,000 students in 29 states, the District of Columbia, Guam, Puerto Rico and overseas.

Train-the-Trainer Programs: Using a train-the-trainer approach to increase the number of people who have the capacity to train teachers on select curricula is the most efficient method for ensuring nationwide curriculum dissemination through professional development. This mechanism greatly increases the number of teachers/students impacted when compared to one organization acting alone. These programs may involve the collaboration of several school districts, educational/environmental organizations and universities' education and outreach programs. Trainers are trained to facilitate workshops for teachers in their area focusing on health-related curricula.

Regional Teachers' Workshops: The annual Health Sciences Summer Institute for Educators, Grades K-12, continues to meet the needs of teachers throughout New Jersey. The Summer Institute offers workshops facilitated by CSCHE staff and health educators, scientists and classroom teachers. The thirteenth annual Summer Institute, held in summer 2006, welcomed 116 educators representing 49 districts in the public and private sectors, who participated in five one- and multi-day workshops. Workshop topics included toxicology, risk assessment, epidemiology, infectious diseases, real-life science and safe work practices for teenagers.

District-Specific Teacher Workshops: With support from the National Institute of Environmental Health Sciences (NIEHS), CSCHE has conducted the SUC₂ES₂ (Students Understanding Critical Connections between the Environment, Society and Self) program since 2000. SUC₂ES₂ is a partnership between CSCHE and the Woodbridge Township School District, in collaboration with the New Jersey Department of Education, the Graduate School of Education at Rutgers University and Rider University. The goal is to develop three integrative, environmental health units, one for each of the district's second, fifth and seventh grades, based on the award-winning ToxRAP (Toxicology, Risk Assessment and Pollution) curriculum series. A critical project component is the implementation of a comprehensive evaluation of the ToxRAP materials and additional activities. This evaluation will determine the effectiveness of the curriculum in increasing environmental health literacy and in improving science attitudes among students. To date, all three curriculum guides have been developed and implemented in all of the district's elementary and middle schools. Student pre- and post-tests were conducted in treatment and comparison schools at each of the district's three grade levels. Preliminary results for second and fifth grades continue to show significant improvement in student learning. In 2007, SUC₂ES₂ was awarded the Community/Campus Partnership Award from the UMDNJ-SPH.

Curriculum Development

Lesson plans containing current and impartial information increase public health literacy, with an emphasis on environmental health, while enhancing educational resources in elementary, secondary and vocational school classrooms (grades K-12). Teaching

techniques include problem-based learning, games, graphing, hands-on experiments and case studies. Age-appropriate investigative science, math, health and language arts activities present students with real-life scenarios through which they learn problem-solving, decision-making and critical-thinking skills. These tools for learning are readily transferable to other areas of students' lives. Select modules are also available in Spanish-bilingual and all-Spanish versions. Materials, where applicable, are indexed to state and national education standards.

Working with the LIFE Center at The Cancer Institute of New Jersey (LPGA Pros in the Fight to Eradicate Breast Cancer), CSCHE developed BioCONNECT, a new high school science curriculum that uses breast cancer as the context. The module enables both female and male high school students, through the process of scientific inquiry, to identify risk factors for breast cancer; learn how cancer develops; and make life-style changes to reduce the risk of cancer. The module targets science classrooms. The lessons follow fictional 14-year old twins, Steve and Nikki, as they discover their mother has been diagnosed with breast cancer. Via the twins' website, the students help the twins work through the associated scientific and psychological issues over time, as the twins' family moves through diagnosis and treatment. At critical decision points, students use their knowledge to share information using the twins' online forum.

Safe Schools

Safe Schools is a project supported by the New Jersey Department of Education, Office of Career and Technical Education, to assist schools in reducing risk due to occupational safety and health hazards. Safe Schools involves a number of outreach components designed to support teachers, administrators, safety and health designees, structured learning experience/career orientation coordinators, county apprenticeship coordinators, cooperative education coordinators and those involved in school-to-careers.

As one of its components, project staff developed recommendations regarding prohibited and restricted hazardous automotive and diesel work activities for minors (youth under the age of 18) involved in school-sponsored structured learning experiences. These recommendations, which were developed through a Safe Schools Program Task Force for the New Jersey Department of Education and the New Jersey Department of Labor and Workforce Development, will guide revisions to New Jersey child labor laws. In addition, 1,193 teachers and administrators in New Jersey were trained during 66 courses focusing on occupational safety and health issues through the Safe Schools Program. Much of the training focused on preparing participants to meet the new teacher licensing requirements related to ensuring students associated with school-sponsored structured learning experiences are placed at safe work sites.

Community Outreach

The five-year HOPE Partnership (Health Observances and Public Education), made possible with funding from the National Center for Research Resources, is a collaboration of seven universities. The HOPE Partnership concentrates on three established national health observances that focus on diseases, illnesses or ailments to which a majority of the population can relate: Cancer Control Month, Allergy and Asthma Awareness Month and Lead Poisoning Prevention Week. Partners develop, implement and evaluate outreach programs that contain educational materials designed to raise public awareness of how research is leading towards the prevention, detection and/or treatment of diseases/illnesses. The materials are being implemented through

community learning, formal and informal education, the media, non-profit organization events and science centers/museums.

Team members have completed more than 50 focus groups among project target audiences (middle and high school students and teachers and the general public) to help guide the development of the educational materials. The Health Observance Package for Asthma and Allergy Awareness Month (held every May) was reviewed by target audiences and implemented in spring 2007. The educational materials for Lead Poisoning Prevention Week (nationally observed the third week of October) were reviewed by target audiences and implemented in fall 2007. Materials for Cancer Control Month (held every April) were reviewed by target audiences and implemented in spring 2008. CSCHE is partnering with Oregon State University; University of Arizona; University of North Carolina at Chapel Hill; University of Southern California/University of California Los Angeles; University of Texas M. D. Anderson Cancer Center; and the University of Wisconsin-Madison.

For more information on CSCHE programs and services, contact Ms. Laura Hemminger at hemminlb@umdnj.edu.

CENTER FOR TOBACCO SURVEILLANCE AND EVALUATION RESEARCH (SPH)

The Center for Tobacco Surveillance and Evaluation Research (CTSER), formerly known as the Tobacco Surveillance and Evaluation Research Program (TSERP), was first established in 2000 to evaluate New Jersey's Comprehensive Tobacco Control Program (CTCP) and is responsible for monitoring tobacco use trends in response to the State's tobacco control activities. The Center now includes multiple research projects, and its overall mission is to enhance the evaluation and surveillance of tobacco control as well as industry initiatives and strategies.

A key priority of CTSER is the dissemination of its findings. Since 2000, CTSER has produced over 20 reports and briefs for NJ CTCP, delivered over 90 conference presentations, and published over 35 journal articles. For more information on this project, contact Dr. Cristine Delnevo at delnevo@umdnj.edu.

COMMITMENT TO DIVERSITY (RWJMS)

The UMDNJ-Robert Wood Johnson Medical School (RWJMS) has collaborated with Rutgers University and Seton Hall University in developing a number of programs aimed at increasing the enrollment of underrepresented minority students in medical school and the sciences. ACCESS-MED is a consortium program for undergraduates offered by Rutgers, Seton Hall, and RWJMS to provide academic enrichment, support and counseling for educationally and financially disadvantaged students pursuing health science careers.

The Office of Special Academic Programs administers two summer programs that it is hoped will increase the diversity of biomedical researchers, physicians and other health care professionals:

- The Biomedical Careers Program is an six-week joint RWJMS–Rutgers University program for educationally and financially disadvantaged

undergraduate students interested in careers in medicine or other health professions

- The Pre-matriculation Summer Program allows educationally or financially disadvantaged incoming medical students to preview selected topics in anatomy, biochemistry, and cell biology/histology

All of these programs, as well as RWJMS' affirmative action efforts, have contributed to the School's successful diversity efforts. RWJMS has maintained a commitment to increasing diversity within the medical school class by recruiting underrepresented students in medicine. The School is also collecting data about faculty diversity and is actively seeking to increase the recruitment, retention and promotion of underrepresented minority and women faculty.

In recognition of the School's commitment to improving the health of the communities served and to increasing diversity, RWJMS has developed specific strategic goals and objectives related to these areas. These goals and objectives are part of the School's five-year strategic planning process. To facilitate planning and implementation of initiatives aimed at meeting these goals, the School has created subcommittees for community health and promoting diversity. Each committee has representation from faculty and administration for promoting diversity and health in the community.

COMMUNITY ADVISORY BOARD (SOM)

"Given the strong commitment to community health and service by the UMDNJ-School of Osteopathic Medicine, it is essential that residents from local communities and the region play an important role in advising our school to help support our continued growth, diversity and development," said Interim Dean Thomas A. Cavalieri, D.O in announcing the creation of the UMDNJ-School of Osteopathic Medicine Community Advisory Board in early 2008.

The Board brings together civic, business, academic and religious leaders to advise the School on fulfilling its commitment to excellence. Dr. Cavalieri said he was honored by the prominent local residents who agreed to share their talents and time to promote medical education, research and community-based health programs serving Southern New Jersey. Recognizing that the school has made significant contributions to the health of the state's residents since its creation 30 years ago, the UMDNJ-SOM Community Advisory Board focuses on supporting and expanding the school's programs, sustaining its leadership in diversity, and developing new alliances to further its mission.

The Community Advisory Board participates in regular roundtable discussions of the school's progress and serves as liaison for the academic, research and health care leaders at SOM with individuals and groups that share an interest in addressing future needs.

COMMUNITY HEALTH WORKER INSTITUTE (CHWI) (SOM)

The Community Health Worker Institute (CHWI), based at UMDNJ-SOM, was initially established by the Camden Area Health Education Center (AHEC) in 2001. In 2004, through SOM, CHWI obtained federal funding from the U.S. Department of Health and Human Services-Health Resources and Services Administration (DHHS-HRSA) for a

Model State-Supported Area Health Education Center. In January 2008, SOM reapplied for a grant to continue funding for the NJ AHEC Program and CHWI for another three years. The grant review is pending.

One of only two statewide initiatives in the country aimed at developing the emerging profession of Community Health Worker (CHW), the CHWI is administered through the Camden AHEC. Its goal is to enable medical and other health professions students in UMDNJ to gain knowledge about the potential of CHWs to improve health literacy, increase knowledge about cultural sensitivity and cultural competence in health care delivery, enhance quality of care and provide diverse learning experiences in underserved communities.

In 2007, the CHWI worked to facilitate identification of competencies/standards and training resources for community health workers that can be applied statewide and that will ultimately lead to clear identification of this important new occupation. The CHWI, in partnership with the National Council on Aging, successfully developed and pilot-tested the CHW core curriculum. A total of 13 CHWs were trained with the core curriculum and graduated as peer leaders in the the Stanford Chronic Disease Self-Management Program. As part of a community project, the CHWs organized and conducted a health fair in Atlantic City that was attended by over 50 seniors.

COMMUNITY NUTRITION INITIATIVES (SHRP)

Each year, the SHRP-Dietetic Internship Program has been involved in several community nutrition initiatives, and in 2007 these initiatives were targeted primarily to children and adolescents. Supermarket tours emphasizing shopping for a healthy heart were conducted with approximately 100 Trenton Central High School girls in conjunction with the Teen Esteem Program sponsored by the Women's Heart Foundation. To celebrate National Nutrition Month, culinary presentations and nutrition exhibits were presented to 120 high school freshmen and sophomores from the Union County Academy of Health Sciences, and "You R What U Eat" workshops were conducted for 180 Girl Scouts from the Delaware-Raritan Valley Girl Scout Council. Dietetic interns also helped assess the diets of persons with severe and persistent mental illness to advise them on how best to self-manage their nutrition.

THE COMMUNITY- ORIENTED DENTAL EDUCATION PROGRAM (NJDS)

The Community-Oriented Dental Education Program (CODE) is in its thirteenth year of having fourth-year pre-doctoral dental students deliver care under faculty supervision in NJDS' extramural dental centers in southern New Jersey. Students, who move into the area near one of the community-based facilities, participate in organized community projects throughout the year and come to Newark for didactic instruction one day each week.

DEPARTMENT OF COMMUNITY HEALTH (NJDS)

The NJDS Department of Community Health provided oral health education programs screening and or treatment at the following sites:

- Hopi Reservation, Arizona

- American Cancer Relay for Life
- Dominican Republic Outreach
- St. Kitts & Nevis
- First Adventist Church
- Boys and Girls Club
- Ironbound Community Preschool
- 14th Ave. School
- Our Lady of Victories, Jersey City
- Ladies Workout Express, South Orange
- Casa Israel
- Kids Kottage, East Windsor
- Workers Union-Bringing Homeless Indoors
- St. Joseph School, Camden
- Public School #48
- Memorial High School, Millville
- Jewish Education Center, Elizabeth
- Orange Township Public Schools – Forest Street School
- Science High School
- East Side High School
- University High School
- HAFTR
- Eleanor Van Gelder School
- Oradell Elementary School
- Beachwood Elementary School
- Pediatric Ward at University Hospital
- Paterson Middle School
- Bais Ezra, Brooklyn
- The Children's Corner
- St. Joseph's of the Palisades Elementary School
- Gadder School
- Woodbridge Developmental Center
- Fairleigh Dickinson University, Madison
- Hillel Academy, Pittsburgh
- BF Gibbs Elementary School
- Slackwood Elementary School, Lawrenceville
- Milton School, Livingston
- Girl Scout Troop
- Oral Cancer Walk, NYC:
- Oral Cancer Screening, NJDS
- Hackensack Christian School
- YMCA, Newark
- Cooper Hospital, Camden
- Meloinnis Elementary School, Perth Amboy
- Lakeview School
- Harmony Day, UMDNJ
- Student Doctor for a Day
- Om Temple, Belleville
- ISDA Health Fair

- Meadowview Nursing Home
- Lady Liberty Academy, Newark

DEPARTMENT OF HEALTH SYSTEMS & POLICY / DOMINICAN REPUBLIC
HEALTH OUTREACH PROJECT (SPH)

The Dominican Republic Health Project began in 2003 when nine students and two faculty members undertook public health projects in the Haitian bateyes of the Dominican Republic (DR). Bateyes are extremely poor communities of sugar cane workers and their families who live in primitive palm frond and tin shacks with limited access to potable water and sanitary facilities and no access to health, social service or educational programs.

Since that first visit, the Project has been expanded to represent the field work component of a new course, "Public Health Applications in Developing Countries." In April of 2008, ten students traveled to the Dominican Republic with two faculty members. In July 2008, another 12 students and two faculty members will be travelling again to the DR.

The Dominican Republic Project is undertaken in collaboration with Crossroads, a non-denominational outreach mission that provides housing and nutritional programs to persons living in the bateyes of the North Coast of the Dominican Republic.

Students and faculty plan specific public health interventions and obtain the resources necessary to implement them prior to their visit to the Dominican Republic. Typical projects include parasite control programs, primary care clinics, health education programs and assistance in nutrition and sanitation projects. During the Project's existence, students have raised funds that have been used to:

- Purchase a cow to provide milk and a solar oven for bateye communities
- Build a water system in one bateye
- Construct a primary care center in a new village built by Crossroads
- Support an emergency medical fund
- Provide tuition for Haitian children to attend schools in the DR
- Build an outhouse in one bateye
- Pay for a teacher's salary

For more information on this project contact Dr. Lois Grau at graulo@umdnj.edu and Dr. Bernadette West at westbbm@umdnj.edu.

DEVELOPMENTAL DISABILITIES FAMILY EDUCATION AND
INFORMATION PROJECT (SPH)

The Developmental Disabilities Family Education and Information Project provides information and support to families of people with developmental disabilities who are making a transition from institutional to community living in New Jersey. Support for this Project is provided by the New Jersey Division of Developmental Disabilities. The Project engages families in choosing and helping to develop the most effective and viable community living options for their family members. Project activities include:

- Family Forums to provide families with a picture of the possibilities in community living
- New Beginnings Family Meetings on transition to community living
- New Beginnings in Community Living newsletter, a periodic newsletter
- A New Beginning: Family Guide Series on Transitioning from Developmental Center to Community Living
- The project website, <http://www.umdni.edu/linkweb>
- A family HELPLINE (1-800-500-0448) for family questions and concerns on transition to community living
- Training for Developmental Center staff on family participation in community living transition

For more information on the Developmental Disabilities Family Education and Information Project, contact Dr. Susan Hammerman at hammersr@umdni.edu.

THE DIVISION FOR ADOLESCENT AND YOUNG ADULT MEDICINE (DAYAM) (NJMS)

The Division for Adolescent and Young Adult Medicine (DAYAM) is a center of excellence in all aspects of the health, development and behavior of adolescents and young adults. Since its inception in 1976, DAYAM has achieved its teaching, health care and research missions through a broad array of institutional, community-involved and community-based clinical services and psychosocial interventions. The scope of programs and services extends beyond direct clinical care to include prevention, education, advocacy and specific intervention and research in HIV and STDs, rape, sexual abuse, substance use and abuse, truancy, school failure, violence and delinquency, adolescent mental health evaluation and counseling, adolescent gynecology and family planning. Currently, the Division maintains a national reputation for its expertise in adolescent and young adult health care, and is the only inner city based comprehensive Adolescent Medicine Program in the State of New Jersey. DAYAM promotes the availability of efficacious responses to issues that adversely affect the quality of life of adolescents and young adults. DAYAM's Clinical, Community and Male Resource Programs are listed below

Clinical Services

- **START** (Screening, Treatment and Risk Reduction for Teens) – evaluates adolescents and young adults through an integrated intake process that includes medical, nutritional, substance use/abuse, mental health, and social services assessments. Each of these evaluations results in a coordinated series of services that are designed and delivered using methods that eliminate the barriers that defeat effective care.
- **STAND** (Services Targeting Adolescents & Young Adults in Need of Direct Outreach) - offers individual mental health counseling, couples counseling and supportive outreach services by the Clinician Supervisor and Outreach Worker.
- **MYLESTONE** - individual and community level prevention services are provided to include health communication and public information (hc/pi) sessions for young people and parents as well as mini teen forums. A community advisory

board has been established to create an opportunity for adolescents to inform services providers of trends and issues impacting young people in the Greater Newark area.

Community Interventions

- STOP (Spend Time On Prevention) - a mobile testing unit where clients receive HIV information, counseling and serologic testing. After HIV testing, youth who require clinical services because of a positive serologic test (or other issues) are directly linked to the START Clinic. As needed, clients who require additional services are referred to the appropriate provider.
- JUMP (Juveniles Understanding Methods of Prevention) – provides health education, prevention and intervention to incarcerated youth of the Juvenile Justice Commission. Services consist of: risk reduction groups; safer-sex workshops; high-risk assessments; HIV counseling & testing; case management; linkages and referrals services.
- POWER (Peer Outreach Workers Educating Risk-takers) - an outreach and risk reduction program for adolescents and young adults at-risk for HIV/AIDS. In this effort, trained and supervised Peer Outreach Workers (POW's) interface directly with high-risk youth through brief contacts initiated on-the-street in natural peer environments to deliver messages that are culturally sensitive. In addition to outreach, POWER also provides theatrical presentations which focus on HIV/STI's, teen pregnancy, decision making, partner violence, gangs, abstinence and the consequences of having sex.

Male Resource Development Programs

- Young Fathers Program – provides counseling, parenting skills and referral services for young fathers and their partners
- Male Student Support Program – offers support and counseling to enhance academic skills and success of adolescent males attending Orange Elementary and Middle Schools

DR. CHARLES E. BRIMM MEDICAL ARTS HIGH SCHOOL (SOM)

SOM Family Medicine third year students and residents participate in a program for the Dr. Charles E. Brimm Medical Arts High School (located at Our Lady of Lourdes Medical Center in Camden) in which they discuss health-related issues with high school students, including potential careers in clinical medicine. The well-received program—part of the federal Kids in Health Care program—is being expanded to include more health prevention education programs for Camden's 7th and 8th graders by SOM Family Medicine physicians. Over the past five years, the SOM Family Medicine Department has also participated in Camden's Summer Medical Youth Program, which promotes careers in the health sciences. Over the past year, third year students from UMDNJ-SOM have performed a Community Oriented Primary Care (COPC) project at the Brimm School that focused on meeting with students about opportunities in affiliated medical careers.

THE ERIC B. CHANDLER HEALTH CENTER (RWJMS)

The Eric B. Chandler Health Center (EBCHC) is the cornerstone of UMDNJ-RWJMS community-based programs. Founded in 1987 in memory of Eric B. Chandler, Ed.D, it is a comprehensive, family oriented community health center that opened in 1988. The Health Center is operated jointly by UMDNJ-RWJMS and the EBCHC Community Board, which together form the Health Center (co-applicant relationship). EBCHC was designated as a Federally Qualified Health Center (FQHC) in January 1991 and received CHC Section 330 funding in October 1993. The Center is dedicated to providing high quality ambulatory health care services to low-income, uninsured and under-insured residents of the Greater New Brunswick community. The Center is also a training facility for residents and medical students at RWJMS.

The primary care services provided at EBCHC include: Pediatrics & Adolescent services-inclusive of EPSDT and immunizations; Obstetrics & Gynecology-inclusive of family planning & colposcopy; Internal Medicine-inclusive of preventative health services; diagnostic laboratory; urgent medical care; follow up of hospitalized patients; geriatrics; preventative, restorative, and emergency dentistry. Dental services for children in grades K through 5 are also provided at the Lord Stirling School in New Brunswick. Other services include podiatry, HIV counseling and testing, early intervention and treatment, addiction services, clinical social services, translation services, community outreach, case coordination, health education and emergency transportation. Services provided by contract include diagnostic radiology and pharmacy services needed for quality continuity of clinical care. Referral services provided include emergency care, mental health counseling and treatment, physical and occupational therapy, substance abuse and other medical specialties not provided on-site. Services provided on-site are offered 50 hours per week. Twenty-four hour coverage seven days per week is provided through a physician call schedule. The mission of the center is:

- To provide high quality ambulatory health care services that are culturally effective.
- To promote a healthy lifestyle and educate patients to assume responsibility for and participate in their health care decisions.
- To provide high quality educational opportunities for medical students, residents, physicians, nursing and other health professional students who train at the Center. All trainees will learn to provide culturally effective, respectful, quality health care in the context of the community.
- To serve as a community resource for health and social services.

With the support of a federal grant, in March 2006 the Chandler Health Center opened an Annex in New Brunswick to expand its services. The new facility, five blocks from the main building, responds to the need for more medical and dental services and health education for the under-insured and uninsured population of central New Jersey. With two medical and two dental examination rooms, a patient education room, and offices for support staff, the services at the Chandler Annex have eased the long backlogs for appointments at the main Chandler Center.

As part of an academic health center, Chandler actively participates in training medical students, residents, nursing students, and social work students. Emphasis is placed on

the use of a bio-psychosocial approach to patient care, with special attention given to helping learners understand the influences of poverty, poor education, cultural diversity and family structure on the delivery of effective patient care services. One of the primary goals of the Center is to teach learners about the unique issues that confront patients in an underserved urban setting. Each year over seventy residents and medical students rotate at Chandler. Internal medicine residents and pediatric residents are assigned to Chandler for their three years of continuity care experience. OB/GYN residents provide obstetrical care as well as continuity in gynecologic care.

As part of its commitment to eliminating health disparities and improving clinical outcomes, the Center participates in the National Health Disparities Collaborative. Activities are designed to improve the overall care that each patient receives and to establish a process of improvement based on the Care Model. The Care Model fosters productive interactions between patients and a prepared practice team within a health care setting. The model is designed to maximize resources, use them effectively, and look towards the community for resources to help deliver evidence-based care.

The Center is also committed to the PDSA (Plan, Do, Study, Act) method for accelerating the change process and improving work flow, patient care, and other activities at Chandler.

As a community-based health center, Chandler also collaborates with local agencies to address both health and social needs. For example, Chandler regularly participates in community health fairs and projects sponsored by the Healthier New Brunswick 2010 Initiative. In addition to its core clinical services, Chandler has developed the following community-based programs:

Family Education Program

This outreach project features a series of health education seminars on topics such as domestic violence, immigration, managed care, home safety and health maintenance.

Prenatal Classes

A series of classes for pregnant women is offered in English and Spanish three times a year to provide information about normal pregnancy, what to expect during labor, and normal child development. A separate series of prenatal classes is offered for expectant adolescent mothers with additional topics such as continuing education after the baby's birth and preventing unplanned pregnancies.

Reach Out and Read Program

To encourage reading to children from an early age, the Chandler Center participates with the National Reach Out and Read Program cooperatively with Rutgers University. At every well child visit, children are given books that are appropriate for their developmental level.

Health Information on Spanish Website

The Chandler Center, with the support of the New Brunswick Interpreter Project, has just put its new Spanish language website online. This will make important health information more accessible and will provide a Spanish language guide to services available at Chandler.

ESSEX COUNTY HOSPITAL CLINICAL AFFILIATION (SN)

The UMDNJ-School of Nursing's affiliation with Essex County Hospital is now in its second year. A nurse clinician works collaboratively with the Director of Patient Care Services and the medical administration on quality improvement projects such as monthly nursing grand rounds, violence reduction within the nursing units and polypharmacy reduction on the units. Over the past six months, Barbara Caldwell, PhD, APRN-BC and Michael Sclafani, MS, M.Ed, RN have provided twelve hours of programs that offer continuing education credit, with plans for expansion for the entire year. Planning is ongoing to institute continuing care rounds on a monthly basis to focus on improving patient care outcomes. The goal is to establish a nursing focused evidenced based practice committee at the hospital.

ESSEX COUNTY'S SECOND ANNUAL PROJECT HOMELESS CONNECT DAY (SN)

Four UMDNJ-SN nursing students completing their community health clinical rotations provided blood pressure and health screenings at the Branch Brook Park roller skating rink.

FACULTY DEVELOPMENT PROGRAM ON HEALTH LITERACY (SOM)

In April 2007, as part of its newly-funded Geriatric Education Center (GEC) grant from the Department of Human Services, Health Resources and Services Administration (DHHS-HRSA), the NJGEC offered its first 32-hour Faculty Development Program on Health Literacy to faculty members of multiple disciplines. The course, conducted in Stratford over a three-day period, included self-directed on-line learning, interactive and didactic workshops on health literacy and cultural competence, and skills demonstration by trainees who interacted with simulated patients in the Clinical Education Assessment Center. The course will be offered again in the spring of 2009 and 2010.

FOOD STAMP EDUCATION (SHRP)

In conjunction with Rutgers University Cooperative Extension, UMDNJ-School of Health Related Professions has been providing nutrition education sessions for food stamp recipients in Essex County since 1998. The sessions are held in schools, after-school programs and community agencies.

FRANCOIS-XAVIER BAGNOUD CENTER (SN and NJMS)

The François Xavier Bagnoud (FXB) Center, School of Nursing, receives public and private funding of approximately \$24 million annually. Public funding sources are diverse and include the New Jersey Department of Health and Senior Services (NJDHSS), the New Jersey Department of Human Services, Health Resources and Services Administration (HRSA) HIV/AIDS Bureau, the National Institutes of Health (NIH), the US Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO). Beginning early in the HIV/AIDS epidemic, FXB Center's clinical leadership developed a model approach to family-centered HIV care. The Center offers training and technical assistance to share this expertise with other programs in New Jersey, the US and throughout the world (www.fxbcenter.org).

FXB Clinical Services

- ♦ **FXB Center Ambulatory Care Center** at University Hospital in Newark meets the healthcare and social needs of families living with HIV infection through the provision of multidisciplinary, culturally competent, comprehensive HIV services. The Ambulatory Care Center provides HIV primary medical care, intensive targeted interventions to support adherence to care and treatment and improve client outcomes to the more than 300 families currently served by the program. The Center offers clinical and social services to infants and children who are HIV-exposed and adults with HIV infection. Two clinical and social services programs of the Center, The Family Place and Health Care Connections, reach out to the community to identify, engage and facilitate comprehensive care of HIV-infected and affected persons. Care is coordinated and continuous among hospital, ambulatory care, home and community settings.
- ♦ **FXB Center Child Health Program**, in collaboration with the New Jersey State Division of Youth and Family Services (DYFS), ensures that the healthcare needs of vulnerable, at-risk children are met by providing a range of community-based pediatric nursing services to DYFS district and regional offices. The Program also works closely with DYFS to develop a coordinated response to specific regional and statewide health needs. Child Health Program nurses, highly experienced in pediatric care, evaluate the health needs of medically fragile children under DYFS. These nurses, with special expertise in child health and safety issues and case management, are linked to medical and community health agencies. They assess children suspected of abuse and neglect, advocate for the quality of health care for children in the child welfare system and assist DYFS staff in meeting children's health needs.

FXB National Programs

- ♦ **HIV/AIDS National Resource Center (NRC) at FXB Center** provides technical assistance, training, and materials development to healthcare providers across the U.S. through a diversity of projects. Funded by HRSA since 2002 as the AIDS Education and Training Centers (AETC) National Resource Center, NRC works closely with the eleven regional AETCs and more than 130 local performance sites. The NRC supports national working groups on timely topics and maintains a library of AETC resources through their website at www.aidsetc.org. FXB NRC is funded by HRSA as a National Resource Center for the Ryan White CARE Act Part D (Title IV) projects. It supports implementation of surveys, focus groups, and evaluations to improve clinical practice and provides staff support for the working groups that maintain national guidelines for treatment of pediatric HIV infection and care of pregnant women with HIV and prevention of perinatal HIV transmission. Since 1999, the NRC at FXB Center has been funded by the CDC as a national organization working to eliminate perinatal HIV transmission. NRC has developed train-the-trainer curricula used nationally on reducing perinatal HIV transmission and innovative approaches to supporting the implementation of rapid HIV testing in labor and delivery for women with undocumented HIV status and routine HIV testing in medical settings.

FXB Global Programs

- ♦ **University Technical Assistance Project (UTAP)** contributes to the efforts to build capacity and infrastructure for providing health care to people living with HIV/AIDS in resource-limited settings. FXB Center offers in-country training and technical assistance on the prevention of mother-to-child HIV transmission (PMTCT) and pediatric care in Haiti, and in a number of countries in Africa and Asia. In Guyana, South America, the FXB Center provides clinical support and technical assistance for HIV/AIDS care and treatment services, HIV/TB co-infection and laboratory services. The Center plays a lead role in training initiatives for PMTCT including partnering in the development of the World Health Organization (WHO)/CDC-US Department of Health and Human Services (HHS) Generic PMTCT Training Package and leading its adaptation and implementation in a growing number of African countries, the Newly Independent States (NIS) and South America.
- ♦ **World Health Organization Regional and National Workshops** contribute to capacity-building initiatives in the developing world. The FXB Center coordinates workshops to transfer knowledge and skills to train healthcare providers in several regions in Africa, Latin America, Asia and the Caribbean.
- ♦ **International Maternal/Pediatric/Adolescent AIDS Clinical Trials Group (IMPAACT) Global Training Program** (formerly PACTG) builds clinical and research capacity at IMPAACT sites in Africa, Asia and South America by developing and offering HIV clinical training for healthcare providers and other site staff. In addition, the project has worked closely with community members to educate them about clinical trials and empower informed decision-making about participation in clinical trials.

FREE ORAL CANCER SCREENING AT UMDNJ (NJDS)

For the tenth year, volunteer faculty and community dentists performed free oral cancer examinations on New Jersey citizens with appropriate follow-up. Trained volunteer staff provided educational materials and instructions on lifestyle and habit changes to reduce the likelihood of developing oral cancer. The screenings were held on April 24, 2008 in two locations: the University Dental Center at Somerdale and the Dental School in Newark. The Newark screenings were performed in conjunction with an Essex County Cancer Fair, where all major cancer prevention advocacy organizations had information booths.

“GIVE KIDS A SMILE” DAY AT THE NEW JERSEY DENTAL SCHOOL (NJDS)

The New Jersey Dental School (NJDS), in conjunction with the New Jersey Dental Association and the American Dental Association, hosted “Give Kids a Smile Day.” This special one-day annual event began in 2003 and is part of a national month-long Children’s Dental Health Month. Offered at no cost to New Jersey youngsters ages 12 and under, the event allows the dental community to treat thousands of underserved children. NJDS volunteers, including dentists, hygienists, dental assistants and non-clinical support staff, as well as community dentists, performed a wide range of dental services. Throughout the day a circus clown entertained the children while they awaited treatment. Tables were filled with educational activities, and face painting, balloon art, and other games were enjoyed.

The total number of children treated has more than doubled since 2003. In 2004, 280 children were treated, and in 2005, 535 were treated. This year NJDS provided care to over 800 children, including patients registered for the day and walk-ins, as well as over 200 children from the Statewide Network for Community Oral Health.

GLOBAL TUBERCULOSIS INSTITUTE (NJMS)

The UMDNJ-New Jersey Medical School Global Tuberculosis Institute is a force in the effort to conquer and cure tuberculosis worldwide. The Institute plays a leading role in the international arena, providing expertise in program development, education and training, and research to ministers of health, national TB programs and healthcare providers around the globe.

A History of Excellence

TB infections in the U.S. soared to unprecedented levels in the early 1990s. The UMDNJ-New Jersey Medical School National Tuberculosis Center was established in 1993 in response to this resurgence. Under the direction of Lee B. Reichman, MD, MPH, it achieved federal designation as a national Model Tuberculosis Prevention and Control Center in 1994, indicating its success in delivering state-of-the-art treatment, conducting cutting-edge research, and providing education and training to all levels of health care providers as well as those afflicted with this deadly, yet curable, disease. To reflect this ever-expanding commitment to stamp out the disease even in the most remote locales, the Center changed its name to the Global Tuberculosis Institute in early 2006.

Mission and Goals

The mission of the Global Tuberculosis Institute is to advance state-of-the-art tuberculosis care through excellence in research, practice and teaching.

The goals of the Institute are to decrease tuberculosis morbidity through state-of-the-art diagnostic, treatment and prevention programs; to create a cadre of interacting clinical and research scientists with a prime interest in the intersection of basic science, clinical and epidemiological aspects of tuberculosis; to develop and apply innovative diagnostic, therapeutic, behavioral, preventive and educational modalities for tuberculosis; and to provide an internationally recognized training center for courses and affiliations at all levels to increase the skills related to tuberculosis for physicians, nurses, epidemiologists and all other health-related professions.

The Global Tuberculosis Institute's success has been achieved through the realization of these goals. The Institute has developed proven effective practices, which are shared with others involved in the fight against tuberculosis.

State-of-the-Art Care

The Institute provides outpatient services at its new state-of-the-art clinical facility designed from the ground up specifically for safe and effective treatment of tuberculosis. Renowned pulmonary and infectious disease specialists treat patients in the Waymon C. Lattimore Practice. Patient-centered care is provided through a multi-disciplinary team approach to address the complex clinical, social and cultural issues that impact the prevention control and elimination of tuberculosis. Specialized care is given to children

with tuberculosis, patients with multi-drug resistant tuberculosis, and those co-infected with HIV/AIDS.

Demonstrated Effectiveness

Since the Institute's creation, there has been a dramatic decrease in the number of tuberculosis cases within the population it serves. The Institute has an unprecedented record in patients' adherence in taking medication. Nearly all the patients--98 percent--adhere to their medication regimen. Many people in the population that the Institute serves are coping with a variety of life's challenges, and taking medicine is not a priority. To ensure that patients take their medications on time each day, the Institute implemented a widely used strategy called directly observed therapy, or DOT. As its name indicates, as part of the support system, this therapy involves public health workers visiting tuberculosis patients to watch them take their medication. It is these dedicated professionals who have been instrumental in the Institute's unprecedented success.

Providing Worldwide Education and Training

The Institute's Education and Training staff uses its wealth of knowledge and experience to develop educational resources, training programs, and distance learning opportunities. Training courses and individualized programs on specific tuberculosis-related topics are presented to physicians, nurses, healthcare workers, and government leaders across the country and around the world. New, web-based educational programs are available for those who may not be able to travel, yet desire the latest tuberculosis information.

The Institute's website houses an extensive collection of downloadable and adaptable resources at <http://www.umdj.edu/qtbiweb>, and the staff provides technical assistance to a variety of providers to develop and integrate training into their own unique circumstances.

Regional Training and Medical Consultation Services

As a federally designated Regional Training and Medical Consultation Center, the Institute is required to provide training, technical assistance and medical consultation to healthcare professionals throughout the Northeastern U.S. Our region includes Connecticut, District of Columbia, Delaware, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and West Virginia and the cities of Baltimore, Detroit, District of Columbia, New York City and Philadelphia.

The Institute is funded by the Centers for Disease Control and Prevention, Division of Tuberculosis Elimination, with additional funds from U.S. Agency for International Development, NJ Department of Health and Senior Services and a number of non-governmental and private organizations and foundations.

Medical Consultation

Individualized information is provided by senior medical staff to healthcare professionals and the public via a toll-free number, 1-800-4 TB DOCS (1-800-482-3627). This approach is well needed in the U.S. where rates of tuberculosis are declining along with the expertise and experience to deal with the disease and in high burden countries where resources may be less than adequate. When needed, the Institute provides supplementary advice to existing consultants for difficult cases of multi-drug resistant

and pediatric tuberculosis, as well as for tuberculosis and HIV/AIDS co-infection and others with complex medical management issues.

Opening the Door to New Treatments and Practices

The Institute is at the forefront of finding more effective ways to prevent and treat tuberculosis through groundbreaking research. As early as 1970, its staff was conducting clinical trials and doing studies in tuberculosis surveillance, patient behavior, and epidemiology. The Institute also collaborates closely with several of UMDNJ's centers and departments, including the Center for Emerging Pathogens and the Public Health Research Institute. Currently, the Institute is participating in the study of new drug regimens that could shorten tuberculosis treatment. The Institute is a member of Centers for Disease Control and Prevention Tuberculosis Trials Consortium and Tuberculosis Epidemiologic Studies Consortium.

An International Connection

The Institute participates in program reviews and provides policy guidance and technical assistance on a variety of topics including tuberculosis at the primary healthcare level, co-infections of tuberculosis and HIV/AIDS, multi-drug resistant tuberculosis, and patient care in the private sector. Physicians and educators from the Institute have participated in training, presentations and symposia around the world, including the regions of Eastern Europe, Central and Eastern Asia, Sub-Saharan Africa and Central and South America. The staff is also involved in international research.

The Institute also offers individualized training programs in specific aspects of tuberculosis control for physicians, nurses, educators, government officials and others working in the field of tuberculosis. Specialized trainings can be tailored to meet the interests and needs of international participants. Training is geared towards participants from countries with a high burden of tuberculosis and aims to build the knowledge and skills of participants in these settings. The Institute has hosted trainees from more than 25 countries all over the world. Priority is given to healthcare providers from countries with a high burden of tuberculosis that are mobilized to respond to the problem.

HEALTH CARE FORUM FOR STUDENTS (SN)

Professor Margarita Velez-McEvoy presented a "Call to the Profession of Nursing-UMDNJ-School of Nursing" at a pre-medical program held in the Medical Science Building Lecture Hall. The presentation included an overview of career options and the curricula of study leading to advanced degrees in the discipline of nursing.

HEALTH ENHANCEMENT AND LEARNING PROJECT (HELP) (SOM)

Through a grant from the NJ State Department of the Treasury, the New Jersey Geriatric Education Center and the New Jersey Institute for Successful Aging, in collaboration with the Camden Area Health Education Center, initiated a comprehensive health enhancement and learning program (HELP). The program addresses chronic diseases/common geriatric syndromes, medications, and health management strategies for residents of selected senior citizen subsidized housing facilities in the City of Camden.

Built on the evidence-based Enhance Wellness and the Stanford Chronic Disease Self-Management Programs, the project offered a health assessment for building residents

and helped them to identify health risk factors and develop a behavioral health action plan. The project provided a nurse practitioner and community health worker to assist with cultural and health literacy issues and offered peer leadership training and support to assist the elderly participants in adhering to their identified health plan. The goal of the program was to improve health and prevent further disability in minority and underserved individuals with multiple chronic conditions, permitting them to age in place.

The program also provided support and education to primary care physicians and health care professionals from multiple disciplines in the community, thus enhancing their knowledge of aging and appropriate assessment, intervention, and health promotion strategies, all directed at improving the quality of life and quality of care for aging New Jersey residents. The program concluded in August of 2007 and the grant formally ended on December 31, 2007.

HEALTH SCIENCE CAREERS PIPELINE (SHRP)

The Health Science Careers Program, formerly Tech Prep, began in the 1993-94 academic year with three high schools and 12 students. The program allows students early access to a career in the health sciences and exposes them to health care settings where they learn patient care techniques. The program has a website www.healthcareers.umdj.edu to educate students about various health careers. Approximately two-thirds of the students received college credit ranging from one to a maximum of 22 credits. These credits are accepted by every college in New Jersey and by a number of out-of-state colleges and universities. The program had 1800 students in academic year 2007-08.

HEALTHIER NEW BRUNSWICK 2010 INITIATIVE (RWJMS)

Healthier New Brunswick 2010 is a longitudinal community-based, community-owned health improvement initiative managed by the Community Health Advisory Group. In addition to the Medical School and several RWJMS institutes, the Advisory Group includes representatives from foundations, hospitals, community organizations, and development groups. Building on numerous previous health improvement efforts, the initiative is developing innovative strategies to address some of the persistent health problems affecting the residents of New Brunswick. In order to focus educational and preventive health care interventions, Healthier New Brunswick 2010 seeks to understand and incorporate a broad range of variables that influence children's health. Interventions are targeted to individuals, families, neighborhoods, the larger community and, when appropriate, to the city as a whole. Partnerships with the New Brunswick Public Schools are particularly important in helping to achieve the project's goals. The four focus areas initially chosen for intervention are domestic violence, mental health/substance abuse, lead poisoning, and childhood obesity.

HUNTERDON ENDOWED CHAIR IN COMMUNITY HEALTH AND HEALTH POLICY (RWJMS)

With the support of the Hunterdon Health Fund, RWJMS will recruit a distinguished professor to serve as the new Endowed Chair in Community Health and Health Policy. With the appointment of the Chair, the Medical School plans to establish an Institute for Community Health and Health Policy for the improvement of the health status of vulnerable and underserved populations in the United States through innovations in

patient care, medical education, and health policy. The Institute will bring together health policy and community health investigators, community-based faculty educators, and providers to develop research and educational projects that use a community-based participatory model to translate health policy and primary care research into practice. The new Institute will also provide opportunities for research collaboration with other schools within UMDNJ, and with Rutgers and Princeton Universities.

HUNTINGTON'S DISEASE FAMILY SERVICE CENTER MONTHLY SUPPORT GROUP (SOM)

This support group is offered by the New Jersey Institute for Successful Aging on the third Tuesday of the month as part of the Huntington's Disease Family Service Center on the Stratford campus of UMDNJ-SOM. It provides an opportunity for families and those with Huntington's disease to learn about the disease, cope with challenges, and access available resources.

ILLNESS MANAGEMENT AND RECOVERY (SHRP)

Six SHRP faculty are engaged in the implementation of the evidence-based practice of Illness Management and Recovery (IMR) at all New Jersey Division of Mental Health Services facilities and select contract agencies throughout the state. These faculty train professionals and assist them in implementing this new practice.

THE INSTITUTE FOR THE ELIMINATION OF HEALTH DISPARITIES (SPH)

The Institute for the Elimination of Health Disparities (IEHD) is a statewide initiative that engages and fosters research that will lead to a better understanding of the social-economic and cultural causes for the significant disparities that exist among various racial and ethnic groups. IEHD seeks to identify strategies to address and eliminate these disparities.

Among its community interventions, the Institute is using Geographic Information Technology to identify the location of at-risk populations along with appropriate community resources that can be mobilized to reach these populations with health education and outreach. The Institute is also conducting research to examine racial differences in treatment offered to cancer patients in New Jersey, as well as examining social and cultural factors impacting adherence of African American women to adjuvant breast cancer treatment. IEHD has provided pilot funding to UMDNJ faculty conducting health disparities research. In following up on the conference on obesity co-hosted with the Congressional Black Caucus (CBC) Health Braintrust, IEHD researchers are exploring parents' perceptions and practices related to childhood obesity. To commemorate the 40th anniversary of the Newark rebellion, IEHD also published a monograph on Newark Mortality Trends whose findings were presented in a University-Community Forum. In addition, the Institute continues to sponsor its health disparities seminar series in which nationally renowned speakers have shared findings and strategies pertaining to various health disparities. For more information on IEHD, contact Dr. Diane R. Brown at browndi@umdnj.edu

INTEGRATED EMPLOYMENT INSTITUTE (SHRP)

The Integrated Employment Institute is a program within the Department of Psychiatric Rehabilitation at SHRP and is funded by the New Jersey Division of Mental Health Services. The mission of the Institute is to increase employment among people with psychiatric disabilities. To this end, the Institute seeks to influence individuals, organizations, and systems. The Institute works to increase the expectation of employment outcomes and to:

- Build the capacity of individuals to achieve or support employment goals
- Develop organizational cultures, policies, and practices that promote employment outcomes
- Remove systemic barriers and advocate for effective policies, practices and resources

The Institute operates in eleven New Jersey counties. These include Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Middlesex, Monmouth, Ocean, and Salem.

As a demonstration of best practice in the field, the Institute provides direct supported employment services to ten persons annually. These services include individualized career planning, competitive job development, placement, and follow-along support. The Institute provides service seminars to more than 100 persons with serious mental illness a year. These seminars are designed to build the capacity of the individual to direct his or her own career planning and acquisition. The Institute also helps mental health agencies promote employment services and employment outcomes for persons with serious mental illness through didactic and in-vivo training and on-going consultation. This includes training and technical assistance to outpatient departments, partial care programs, supported employment programs, supportive housing programs, assertive community treatment programs and others throughout the region. Nearly 2,000 professionals a year receive training on more than 40 topics. Low-cost conferences and workshops are offered throughout the State where the participants can earn continuing education credit. The Institute convenes meetings of stakeholders and providers in various counties. Six of the Department's faculty members work full-time on this initiative.

LINKING THE CLASSROOM TO THE COMMUNITY (SPH)

As an integral part of the MPH degree program goals and objectives, all MPH students at SPH connect with the real world environment in which public health practice and/or public health research is conducted. Fieldwork sites are selected by students with their faculty advisors among local, state and national agencies and organizations, governmental and voluntary health agencies, professional associations, hospitals and medical care services as well as international locations. The fieldwork experience is based on the student's concentration in partnership with the agency.

The following examples illustrate fieldwork projects completed, and their locations, during Academic Year 2007-2008:

Newark Campus

- The Hypertrophic Cardiomyopathy Association Patient Dataset, The Hypertrophic Cardiomyopathy Association, Hibernia, NJ
- Assessing the Impact of Pilot FAS Related Media Intervention in New Jersey, NJ Dept. of Human Resources, Office of Prevention of Mental Retardation & Developmental Disabilities, Trenton, NJ
- The Role of the HIV Positive Consumer in the Research Process, Francois-Xavier Bagnoud Center, Newark, NJ
- Fighting the Childhood Obesity Epidemic in New Jersey: The Planning Stages of an Interventional Program, Family Health Center of Newark Beth Israel Medical Center, Newark, NJ
- HIV and Malaria Knowledge and Practice in Ghanaian Farming Communities, Family Health International, Ghana, West Africa
- Prenatal Lead Exposure and Birth Outcomes, New York City Department of Health and Mental Hygiene, New York City, NY
- Epidemiology of Penetrating Eye Trauma, Institute of Ophthalmology and Visual Science, Newark, NJ
- Barriers Affecting Adherence to Antiretroviral Therapy and Quality of Life in HIV Infected Persons of Guyana, Francois Xavier Bagnoud Center, Georgetown, Guyana
- Validation of Putative Substances Involved in Fatal Poisonings, NJ Poison Information and Education System, Newark, NJ
- Hepatitis C- Knowledge and Beliefs among East Orange Residents, East Orange Health Department, East Orange, NJ
- Incorporating Tuberculosis into Public Health Core Curricula, NJ Global Tuberculosis Institute, Newark, NJ
- Community Mapping & Resource Development Project, Essex County Youth Advocate Programs, Newark, NJ
- Awareness and Use of Clinical Trials among New Jerseyans with Cancer, Institute for Elimination of Health Disparities, Newark, NJ
- The Effect of Training in Self-Management on Patients Admitted with COPD Exacerbation, St. Michael's Medical Center, Newark, NJ
- The Use of Emergency Medical Services Data as a Way of Determining the Health Effects of Extreme Temperatures, Regional Emergency Medical Communications Services & Newark Department of Child & Family Well-Being, Newark, NJ
- Refugee Health Program in New Jersey, NJ Dept. of Health & Senior Services, Trenton, NJ
- Evaluation of 'Team up with Teens' Training Program, The Assoc. for Retarded Citizens of Warren County & NJ Dept. of Health & Senior Services, Warren County, NJ

Piscataway/New Brunswick Campus

- Influence of Breastfeeding on Adiposity in Peripubertal Girls, Cancer Institute of New Jersey, New Brunswick, NJ
- The Maywood Medical Monitoring Program (MMMP) after 5 years: Is Lung Cancer Screening Worthwhile? Environmental and Occupational Health Sciences Institute, Piscataway, NJ
- Design of a Parent/Caregiver Survey to Measure Quality of Family Support Programs in the Child and Adolescent Mental Health Care System in New York City, New York City Department of Health and Mental Hygiene, New York, NY

- Assessing the Impact of a Nutritional Guide to Increase Capacity to Read and Comprehend Food Label Information for Children and Adolescents, Jersey Shore University Medical Center, Family Health Center, Neptune, NJ
- Princeton Borough and Township Community Health Needs Assessment Key Informant Study, Princeton Regional Health Department, Princeton, NJ
- The Impact of Insomnia on the Perceived Mental and Physical Health Status of Depressed Patients in the US, Novartis Pharmaceuticals, East Hanover, NJ
- Non-Hodgkin's Lymphoma (NHL) Patients at a VA Medical Center: Clinical Characteristics and Survival Predictors, Veterans Administration Health Care System, East Orange, NJ
- Needs Assessment to Determine Best Methods to Educate Body Artist Professionals about Community-Acquired Methicillin-Resistant Staphylococcus aureus (CA-MRSA), NJ Department of Health and Senior Services, Trenton, NJ
- Strategic Social Marketing Plan for the Dominican Republic Health Outreach Program, Crossroads Mission, Dominican Republic and UMDNJ-SPH, Piscataway, NJ
- Polyclonal Gammopathy and HIV Infection, Eric B. Chandler Health Center, New Brunswick, NJ
- The Effect of Patient-Chosen Educational Method on Stroke Knowledge and Perception in the Emergency Department, University Hospital, Newark, NJ
- Geographic Variations in Medicaid Narcotic Prescription Claims Across New Jersey, CAM Connect, Camden, NJ
- An Analysis of Sexual Dysfunction in Women with Vulvodynia on Placebo as Compared to Women with Vulvodynia on Low Oxalate Diet in New Brunswick, NJ, Robert Wood Johnson Hospital, Department of Obstetrics and Gynecology, New Brunswick, NJ
- Bridging the Expectations and Perceptions of Quality Between Residents and Caregivers in Assisted Living Health Care Association of New Jersey (HCANJ), Hamilton, NJ
- Association Between Area Socioeconomic Status and Stage of Bladder Cancer at Diagnosis: New Jersey, 1999-2004, NJ Department of Health and Senior Services, Trenton, NJ

Stratford/Camden Campus

- Prevention in Osteopathic Undergraduate Medical Education, UMDNJ-School of Osteopathic Medicine, Stratford, NJ
- The Effect of Syringe Exchange Programs on Crime and Needlestick Injuries: Preliminary Results from the New Jersey Sterile Syringe Access Demonstration Program, UMDNJ-SPH, Stratford, NJ
- Vitamin D an Equal Opportunity Vitamin? Children's Hospital of Philadelphia, Philadelphia, PA
- Secondary Data Analysis of Salem and Cumberland Counties BRFSS Data Salem County Health Department, Salem, NJ
- Evaluation of the Trenton Spirit Walk Initiative and Its Impact on the Level of Physical Activity Among the Residents of Trenton Isles, Inc., Trenton, NJ
- An Indoor Environmental Observational Research Study in Camden, NJ – Perceptions of Environmental Health, Camden City, NJ

For more information on fieldwork projects contact Ms. Deidre Holland (Newark) at hollande@umdnj.edu or Ms. Michelle Kennedy (Piscataway/New Brunswick and Stratford/Camden) at kennedmv@umdnj.edu.

M.D. WITH DISTINCTION IN SERVICE TO THE COMMUNITY (DISC) (RWJMS)

UMDNJ-RWJMS has established the DISC program, providing students with the opportunity to earn the M.D. with Distinction in Service to the Community. Directed by the Office of Community Health, a select group of students plan, carry out and write up collaborative population health based scholarly projects under the guidance of faculty and community mentors. The program involves students over the full four years of medical school. It includes service and didactic components, journaling, the preparation of a thesis for publication, and a presentation of the completed project to the sponsoring community organization and the RWJMS community. The DISC program adds a rigorous, scholarly component to existing community service projects, generates experience in population health scholarship, responds to health needs as defined by the community, generates partnerships with community groups, and recognizes students who distinguish themselves by independent, strong, long-term commitments to community health programs.

MEDICAL SCIENCE ACADEMY (SOM)

The Medical Science Academy (formerly the High School Scholars Program) is a 28 – week medical orientation program for twelfth grade honor students from Camden, Burlington and Gloucester Counties in South Jersey. Students meet every Tuesday and Thursday afternoons from 2:00 PM to 3:30 PM on the Stratford Campus.

The Medical Science Academy offers integrated and thematically organized presentations by UMDNJ-SOM faculty who volunteer their time to represent the medical and health care professions. Faculty address issues such as responsibilities to themselves, their patients, their institutions and their communities and provide current information relevant to their work.

Approximately 500 students have participated in the Medical Science Academy and many have either completed training in a health related profession or are attending undergraduate programs or medical schools.

Students are able to participate in an optional research project sponsored by UMDNJ-SOM in collaboration with UMDNJ-School of Health Related Professions.

A total of 40 high school students participated in the Medical Science Academy during the 2007–2008 academic year.

MEDICAL STUDENT VOLUNTEER PROGRAMS (RWJMS)

The Homeless and Indigent Population Health Outreach Project (HIPHOP) was established by a group of RWJMS students in 1992 to help meet the health needs of the greater New Brunswick community. HIPHOP links medical students with the community in an attempt to reduce barriers that prevent community members from accessing primary and preventive health care and education. Program objectives of HIPHOP are:

- To provide a variety of health outreach services to an underserved population
- To provide medical, physician assistant, and public health students with meaningful service-learning experiences

- To create a heightened awareness of the role that RWJMS should play within its community
- To foster an atmosphere of responsible citizenship and encourage a lifelong commitment to community service and humanism in medicine
- To expand the program locally in such a way that it might be duplicated on a national level

The project has expanded from a small *ad hoc* group of dedicated medical students to a well-structured organization involving over 300+ medical and physician assistant students, faculty/staff members, and community representatives. In 2004, HIPHOP evolved into an umbrella program containing two major initiatives: the Community Health Initiative (C.H.I.) and the Promise Clinic. These initiatives are designed to link specific learning objectives for health professional students with the health-related needs of the community.

The **Community Health Initiative (CHI)** has many projects and electives that promote healthy living practices, teach preventive health education, support and advocate for underserved and indigent populations and expose students to indigent primary health care services. The CHI Clinic Project offers community members increased access to primary care by assigning medical students to shadow and assist at St. John's Clinic, EBCHC, Robert Wood Johnson AIDS Program and Edison Job Corp Wellness Center. These clinics and/or community centers serve indigent and underserved Greater New Brunswick area community members. HIPHOP student participants are exposed to indigent health care issues and their varied medical dynamics.

The **CHI-Health Workshop Project** is an educational program that develops a community mentoring relationship while providing health promotion educational workshops. This is accomplished through a series of interactive workshops presented to various community based organizations and public schools in the Greater New Brunswick area. In these workshops students address issues such as HIV prevention, sexual health and responsibility, self-esteem, environmental influences on health and behavior, conflict resolution, nutrition, substance abuse and much more. The CHI—Electives program comprises Students Teaching AIDS to Students (STATS), Patients At/In Risk (PAIR), Issues in Cultural Competency and the Underserved Community Elective (ICCUCE), and Literacy Initiative for Students Teaching Older Spanish Speakers (LISTOS). These programs are in place to provide students additional opportunities to support, advocate and understand the issues of at risk communities. The students who participate in these electives may volunteer to serve meals, attend lectures pertaining to issues of underserved populations, accompany at-risk young pregnant mothers to health literacy education sessions or clinics visits, or sit through a chemotherapy session with a patient. These are some examples of elective participation among the many different forms of elective participatory options.

The final component of CHI is **Project Outreach** which offers a multitude of one-time volunteer experience for anyone who would like to get involved. Such experiences include serving at Elijah's Soup Kitchen, making knot blankets for the homeless, counting the homeless, reading to children, health fair participation, and organizing the program's annual drives and 5k Run.

The Promise Clinic was started in January 2005 by a group of HIPHOP students to provide increased access to health care for the homeless who receive their meals and

social services at Elijah's Promise Soup Kitchen, a shelter in New Brunswick. In the Promise Clinic, a student doctor team of first- through fourth-year students develops and implements a plan of care for their patients. This plan is overseen by volunteer faculty members from RWJMS who are the preceptors for this experience. The students collaborate with other groups to provide a broad range of social services to their patients and promote a culture of service among future health care professionals. The clinic is housed at an existing community health center—St. John's Family Health and Services Center. The students manage an on-site medication room that provides medications free of charge under faculty supervision. Students assist clients with applying for patient prescription assistance programs and hospital Charity Care to offset the cost of: laboratory testing, imaging studies, and emergency care. Related health workshops are conducted to address topics such as nutrition and exercise to complement the care of the patient. Students are responsible for managing the operation of this experience (scheduling patients and faculty, purchasing and tracking medication).

The **Urban Health Initiative (UHI)** at the RWJMS regional campus in Camden provides a broad range of services to the Camden community and is critically important to RWJMS-Camden students. UHI is an organized opportunity for third- and fourth-year medical students to become involved in the Camden community in order to improve the overall quality of life of its citizens through service, charity, and education. Programs include an Adult Health Outreach Project (HOP) Clinic, a Pediatric HOP Clinic, a Women's HOP Clinic, and many school and community outreach programs.

In August 2000, the AAMC-Pfizer Caring for Communities Project awarded funding to third- and fourth-year medical students from RWJMS-Camden to support the development of the first Adult HOP Clinic. This clinic provides free medical care to 110 uninsured adult residents of Camden in a medical student-run facility at the LEAP Academy Health Center. Twenty-nine clinical faculty volunteer as preceptors in the HOP clinics. Students staff all aspects of the clinic, from the front desk to the pharmacy. All third-year RWJMS-Camden students participate in this elective experience, and each student follows from one to three patients for the year. A Pediatric HOP Clinic, begun in 2003, now serves about 80 patients whose families are uninsured residents of Camden. A Women's Health HOP clinic, begun in 2005, serves up to 60 patients.

In addition to the free clinics, the UHI arranges for medical student volunteers to teach CPR and First Aid in schools, day care centers and churches throughout the city, as well as a comprehensive family health curriculum for students in grades K to 9 at the LEAP Academy. UHI also sponsors a Mentoring Program in which medical students provide small group and one-on-one teaching on a variety of health topics to middle school students at the Promise Charter School.

A joint program between UHI and Cooper Hospital, the Health Science Academy was begun in 2006 as an opportunity for Camden high school students interested in health-related careers to gain first-hand exposure to the hospital environment and to receive advanced teaching in the health sciences. After an application process, high school students are selected to participate in this year-long program, which occurs every other Wednesday afternoon. These students head straight to the hospital after school for additional lessons on a range of health topics, such as diabetes, cardiology, bone/joint fractures, and substance abuse. RWJMS-Camden students are actively involved in presenting these lessons and mentoring the participants. On alternating sessions, the

students are taken onto the hospital floors for tours of various clinical departments and talks about a variety of careers within the hospital setting.

Rarely today are patients given an extended amount of time to spend with their primary care provider to ask whatever health related concerns they have. Adopted as a UHI project in 2006, the **Ask-the-Provider** program gives local Camden residents just that opportunity. Once each month, the program provides an open forum for them to ask health providers any questions they have in an informal, intimate, and relaxed setting. In cooperation with Respond, Inc., a local day care organization, several medical students have connected Camden residents with the medical expertise of volunteer physicians. This year, the program has taken on new shape, integrating a teaching segment for medical students to present a health-related topic to the evening's audience. Teaching topics this past academic year have included nutrition, infant feeding, asthma, children's health, and gynecological care.

MINI-MEDICAL SCHOOL (NJMS)

This program is designed to acquaint the community with the theory and practice of modern medicine, as well as to give them an understanding of the educational process involved in becoming a physician. Our public medical education programs are guided by a simple philosophical position: an educated patient is your doctor's best ally. By empowering the individual, the physician and other health care providers are better able to serve the person. The Mini Med School program provides an education that is meaningful and enjoyable for each of its participants.

MINI-MEDICAL SCHOOL (RWJMS)

The Mini-Medical School program has become an integral part of RWJMS' commitment to community service and education. For the past six years the Mini-Medical School for High School Students--*Achieving Excellence in the Sciences*--has served a class of over 180 students from high schools around the state. In addition to these students who share a profound interest in medicine and science, we teach their science teachers and their parents. The program provides opportunities for students to explore scientific interests and to speak at length with professionals who address patient care, research, and community service issues in their daily work. Over the sessions students attend lectures and discussion groups with faculty members who are national and international leaders in their fields – in areas as diverse as cardiac and renal transplantation, cancer biology and advanced therapeutics, stem cell research, advances in neuroscience and “the adolescent brain,” pediatric AIDS and drug development, and culturally competent patient-centered care. Students have the opportunity to practice “bedside manner” in sessions with medical students acting as patients. As a final assignment students demonstrate self-directed learning by researching a topic and presenting it to classmates at their home schools. A diploma is awarded to mark this early achievement in health sciences education.

MINI-MEDICAL SCHOOL (SOM)

The UMDNJ-SOM Mini-Medical School began on the Stratford campus in mid-March of 2007 and ran through early May. For those eight weeks, nationally and internationally-known faculty from the medical school led the 62 students on in-depth discussions of specific health topics. Class sessions took place in the same place where SOM's

medical students learn, and similarly, sessions covered the basic science and/or the clinical application of the week's topic, followed by interactive demonstrations or case illustrations. Topics included osteopathic manipulation, infectious diseases, biological nanotechnology, anti-depressant medications and menopause, among others.

THE NATIONAL BORICUA LATINO HEALTH ORGANIZATION (SOM)

The National Boricua Latino Health Organization (NBLHO) recently picked the student chapter at SOM as the winner of its "Dr. Helen Rodriguez-Trias Chapter of the Year Award."

The Dr. Helen Rodriguez-Trias Chapter of the Year award is given annually to the chapter that best represents the ideals of NBLHO, which include recruiting Latinos into higher education, advocating for increased Latino representation in health-related areas and promoting awareness about social, political and economic issues involving Hispanic populations.

Throughout the year, the UMDNJ-School of Osteopathic Medicine chapter sponsors a series of medical, cultural and social events for Hispanic Heritage Month, co-sponsors the Juvenile Diabetes Walk-a-thon, co-sponsors a Christmas party at a local nursing home and supports a mentoring program for high school students at LEAP Academy in Camden.

UMDNJ-SOM students are active in the leadership of the NBLHO, which is a proud member of the National Network of Latin American Medical Students (NNLAMS). This is a national partnership between other regional Latino medical student groups to create one strong voice for Latino medical students throughout the entire United States.

NATIONAL YOUTH LEADERSHIP FORUM ON MEDICINE (SOM)

The National Youth Leadership Forum on Medicine is designed to provide high school students from across the U.S. with exposure to the medical and health related professions. Students from the NYLF visit the campus of UMDNJ-SOM each summer during the months of June and July. During their visit, students are exposed to opportunities in osteopathic medicine and osteopathic manipulative medicine.

The highlight of the visit is the Mini-Medical School that enables the students to interact with medical educators, as well as learn the admissions process and understand the rigorous academic expectations for aspiring physicians. UMDNJ-SOM has sponsored visits by the NYLF since 1998. A total of 152 high school students visited UMDNJ-SOM during the summer of 2007.

NEW BRUNSWICK COMMUNITY INTERPRETER PROJECT (RWJMS)

The New Brunswick Community Interpreter Project (NBCIP), formerly a grant-funded program now supported by the Office of Community Health, currently provides Spanish medical interpretation and translation services in three area health centers: The Eric B. Chandler Health Center (EBCHC), The High Risk Obstetrics Ambulatory Care Clinic at the Robert Wood Johnson University Hospital, and the Cancer Institute of New Jersey (CINJ).

The Interpreter Project represents the unique point in which three distinct communities come together: Rutgers students, Spanish speaking residents of New Brunswick, and doctors, nurses and medical students studying and working in the city. Through internships, federal work study jobs and volunteer opportunities, students have the exciting opportunity to explore the emerging field of medical interpreting while they develop solid job-related skills such as professionalism and enhance their Spanish language skills and knowledge of medicine. Moreover, healthcare providers who partner with NBCIP interns have the opportunity to learn about issues such as cross cultural communication, the Hispanic culture and how to work with a trained interpreter. Founded in 1999, the program's interns have interpreted more than 75,000 patient-provider encounters, and over 100 vital medical documents and the EBCHC website have been translated into Spanish under the coordinator's supervision. The NBCIP has conducted basic interpreter training for bilingual staff at the Cancer Institute of New Jersey and for bilingual medical students in the RWJMS Department of Family Medicine. Additionally, for the past three years the NBCIP has participated in the bilingual workshop given by the Department of Family Medicine for third-year medical students before they begin their clerkships. The program is staffed by two program coordinators and 35 student interpreters.

NEW JERSEY AREA HEALTH EDUCATION CENTERS (AHECs) (SOM)

In collaboration with the New Jersey Area Health Education Centers (AHECs) and with the assistance of the Community Health Worker Institute (CHWI), the UMDNJ-SOM Department of Family Medicine has been expanding its clinical experiences in underserved communities for students during their first and second year. This year marked the transition from what was formerly known as the Community Oriented Primary Care (COPC) experience, where students developed and implemented community projects, to the Community Involved Primary Care (CIPC) experience, where students are paired with Community Health Workers and work together to identify community needs and develop and implement a community-based project.

All third-year students also participate in expanded Community Service rotations at NJ AHEC sites in Camden, Gloucester, Salem, Cumberland, and Atlantic counties. Host sites for these rotations include hospices, Head Start centers, federal prisons, migrant service organizations, adult daycare, local health departments, teen pregnancy prevention centers, and in-patient and out-patient substance abuse rehabilitation agencies.

Each year over 16 COPC teams, each consisting of ten students, assess health needs and implement projects for helping underserved communities. With an emphasis on children and the elderly, projects this year included helping elementary school children with obesity; providing prenatal and well baby care for teenaged mothers; and helping seniors with Alzheimer's disease in the Camden Housing Authority program.

NJ AHEC also facilitates many Kids into Health Careers programs, such as three Medical Explorer posts in Cumberland and Salem Counties; hospital job shadowing experiences in Gloucester County; Careers in Healthcare school fairs; and health careers curriculum to underserved middle school students in four Cumberland County schools. Students and faculty from SOM have participated in these activities that aim to increase the number of area minority and disadvantaged youth in the health professions.

NEW JERSEY CENTER FOR PUBLIC HEALTH PREPAREDNESS AT UMDNJ (SPH)

The New Jersey Center for Public Health Preparedness at UMDNJ (NJCPHP), located at the UMDNJ-School of Public Health, is one of twenty-seven Centers for Public Health Preparedness funded by the federal Centers for Disease Control & Prevention at schools of public health across the country. The New Jersey Center develops and provides education and training designed to ensure that public health, health care, emergency response, and other workers are prepared to more effectively respond to any biological, chemical, or nuclear threats or emergencies, as well as infectious disease outbreaks and natural disasters.

Service accomplishments for NJCPHP in the 2007-2008 academic year include the distribution of an online newsletter, PHlash, to inform and to help coordinate preparedness education and training activities for the workforce of New Jersey. Several education and training activities were conducted specifically targeting nurses, practicing physicians, medical students, hospital emergency room staff, and senior managers and their staffs in local and county health departments and the state health department, among others. These included two major conferences on emerging and re-emerging infectious diseases, with a focus on pertussis (whooping cough). Training was also provided to county and local emergency management and hazmat teams regarding radiological incidents, including transportation accidents and "dirty bombs", through the Center's partnership with the state's environmental protection agency.

Two of the Center's faculty members were selected as Chair and Vice Chair of the State Health Department's Health Emergency Preparedness Advisory Council, and two members of the Center, representing the NJ Chapter of the American College of Physicians and the NJ Society for Public Health Education, are also members of this Council. Center members also participated in nation-wide groups of Centers working on pandemic influenza, chemical and radiological preparedness, state and local partnerships, vulnerable populations, and evaluation tools. For more information contact Dr. Glenn Paulson at paulsoql@umdnj.edu.

THE NEW JERSEY CHILDREN'S HEALTH PROJECT: A PROGRAM OF THE UMDNJ-SN MOBILE HEALTHCARE PROJECT (SN)

The UMDNJ-School of Nursing, in a collaborative joint partnership with the Children's Health Fund, has implemented a nurse-faculty managed Mobile Healthcare Project that is designed to reduce the morbidity and mortality of medically underserved residents of the greater Newark area. This grant-funded project uses an interdisciplinary collaborative approach and an outcomes oriented focus for a nurse-faculty managed, university-based mobile healthcare project, in collaboration with UMDNJ-University Hospital. The project uses faculty-supervised student nurses and an interdisciplinary mobile health team staff, in association with the clinical affiliates of UMDNJ, community-based organizations (CBOs) and faith-based healthcare initiatives. The Project serves as a faculty practice site for both nursing and medical school faculty, and serves as a clinical rotation site for nursing and medical students.

THE NEW JERSEY GERIATRIC EDUCATION CENTER (SOM)

Federally funded by DHHS-HRSA's Bureau of Health Professions, the New Jersey Geriatric Education Center (NJGEC) provides training in geriatrics and gerontology to

health care professionals of multiple disciplines statewide, with a focus on minority and underserved communities.

Administered through the SOM New Jersey Institute for Successful Aging, the NJGEC has trained over 18,000 health care professionals of multiple disciplines since its inception in 1990. With reinstatement of federal funding for geriatrics in FY 2007, the NJGEC reapplied for a HRSA grant and was refunded for three years (2007-2010). Its new three-year initiative is entitled, "Building Capacity and Optimizing Outcomes in Geriatric Care."

Consortium partners include University Behavioral HealthCare-Technical Assistance Center, which will focus on a Transformational Change in Mental Health Initiative and Raritan Bay Medical Center, which will continue its Clinical Pathways Project, developing pathways in depression, pressure ulcers and urinary incontinence for use in the hospital setting.

NEW JERSEY POISON INFORMATION AND EDUCATION SYSTEM (NJPIES) (NJMS)

New Jersey's first poison center was established in the late 1950s. By 1975 there were 32 "Poison Control Centers" located in acute care hospitals throughout the state. In 1978, in response to a federal initiative to develop regional emergency medical services, New Jersey developed a task force to look into how to provide poison center services. In response to this initiative, the state legislature passed enabling legislation calling upon the New Jersey Department of Health to develop a drug and poison information program for the State. In February 1983, as the result of this legislation and in a cooperative effort between the New Jersey Hospital Association and the New Jersey Department of Health the regional poison control system, New Jersey Poison Information and Education System (NJPIES) was born.

NJPIES is a member of the American Association of Poison Control Centers (AAPCC) and is designated as a regional Poison Control Center under AAPCC guidelines. Additionally, NJPIES manages the Department of Health and Senior Services AIDS/STD hotline. The Center also serves as an information source for the NJDHSS in cases of product tampering or product recall and in food-borne illness incidents, performing a valuable public service in time of crisis. NJPIES provides 24-hour, 7-days-a-week emergency service statewide for poison exposures and for general poison and drug information. Specialists in poison information, who are physicians, registered nurses or pharmacists, handle all calls.

Many of the specialists are fluent in Spanish and several are fluent in additional languages. NJPIES also has a contract with a telephone interpretation service which allows immediate access to hundreds of languages and dialects. We offer TDD/TTY service for the hearing impaired. Specialists answer questions about adverse effects of medications, possible risks for drug interaction or the potential effects of medicines on pregnancy or breast feeding. Specialists also answer questions prior to exposure to or use of a potentially poisonous or hazardous product, such as household chemicals, plants, cosmetics or environmental contaminants like lead. They help the callers to assess the possibility for harm or damage and give recommendations for minimizing or eliminating risk. The Poison Control Center is funded through a contract with the State of New Jersey, Federal and other grants, and from private donations.

Lead Poisoned Children

Lead poisoning from deteriorating paint that contains lead is a major hazard for urban children. Severe lead poisoning can lead to seizures and death, while lower levels can impair performance in school and increase encounters with law enforcement authorities.

The New Jersey Poison Information and Education System (NJPIES) has established the New Jersey Lead Consortium, a monthly meeting where individuals from varied organizations such as DYFS, Medicaid and HMO's--as well as MDs, RNs, social workers and industrial hygienists--come together to discuss prevention/treatment of lead-poisoned children. At the monthly meeting, problem childhood lead-poisoning cases are reviewed, appropriate speakers are invited, and/or current journal articles are presented and discussed.

NUTRITION MANAGEMENT OF INDIVIDUALS WITH HIV / AIDS (SHRP)

This initiative, funded by Ryan White Title A and B, embodies UMDNJ's four missions: education, research, patient care and community service. For six years, SHRP's M.S. in Clinical Nutrition faculty has been providing nutrition services to individuals with HIV/AIDS in the Infectious Disease Practice at University Hospital and other Newark agencies. This program started in 1998 with Ryan White Title III funds (which initially supported a half-time Registered Dietitian) and gradually increased with Ryan White Title I monies to one full-time RD in 1999, the equivalent of 1.5 RD's in 2000, and then to two R.D.'s in 2002. Currently there is one full-time RD in the clinic program. The program fulfills a critical need in Newark, a city with one of the largest HIV/AIDS populations in the U.S. Nutrition education services, food and clothing drives, a food bank for patients and education of staff and patients have helped to provide a valuable service to the New Jersey community.

OEO SUMMER EXPLORATION PROGRAM (SOM)

The Summer Exploration Program is a six-week summer youth employment program that provides employment for high school students in the career of their choice. The objective of the program is to train and mentor student interns to develop positive employee characteristics and skills while allowing them to receive experience in a vocational field of their choice.

Each summer four high school students are selected to work in the UMDNJ-SOM Department of Academic and Student Affairs to assist with various projects.

OFFICE OF PUBLIC HEALTH PRACTICE (SPH)**Centers for Education and Training**

The Centers for Education and Training (CET) provides training to over 3,000 men and women at its training facility annually, offering 250 continuing education short courses. The courses focus on environmental and occupational safety and health topics. Training is provided to professionals who are responsible for occupational safety and health or environmental management. Trainees include industrial hygienists, safety professionals, occupational health nurses and occupational physicians. Courses include:

- Asbestos Training

- Confined Space
- Ergonomics
- Hazardous Materials & Waste Site Operations
- Hearing Conservation
- Indoor Air Quality
- Industrial Hygiene
- Lead Training for New Jersey and New York State
- Noise Protection
- Occupational Medicine
- Occupational Health & Safety
- OSHA Compliance
- Process Safety Management
- Respiratory Protection
- Spirometry
- Toxicology & Risk Assessment

CET courses are held at the SPH Building in Piscataway. This central New Jersey facility affords excellent accessibility by public transportation, parking facilities adjacent to the building and easy access to downtown New Brunswick. CET's courses are held in modern classrooms and a hands-on workshop room. Additionally, CET provides off-site training to industry and governmental agencies. Led by experts in the field, classes are structured to be small enough to allow active discussion and personal attention, yet large enough to provide for a diversified group of participants. The Office of Public Health Practice (OPHP) manages cooperative agreements with the National Institute of Environmental Health Sciences, the National Institute for Occupational Safety and Health, and the Occupational Safety and Health Administration.

New York / New Jersey Public Health Training Center

The NY/NJ Public Health Training Center is a collaborative project between the UMDNJ-School of Public Health, the Mailman School of Public Health at Columbia University, and the State University of New York at Albany School of Public Health. The mission of the Center is to enhance the ability of the current and future public health workforce to effectively deliver the Essential Public Health Services programs to the communities of New York and New Jersey. The Center is supported by the Health Resources and Services Administration, and the New Jersey effort is based at OPHP.

The Office of Public Health Practice collaborated in the development of the work plan for the upcoming years, including the development of web-based training programs. The OPHP presented a seminar series on various public health topics, including dementia care; health literacy; multicultural health and health disparities; emergency preparedness and response for the public health professional; working with the medically underserved; public health response to sexual assault; challenges and opportunities in global environmental health; religion and health; and facing facts: sex and American teens.

New Jersey Collaborative for Excellence in Public Health

The NJ Collaborative for Excellence in Public Health (NJCEPH) was created as a result of the NJ Health Officer's Association (NJHOA) receiving a three-year Multi-state Learning Collaborative (MLC) grant. The MLC is funded by the Robert Wood Johnson Foundation (RWJF) and managed by the National Network of Public Health Institutes (NNPHI). It has been implemented in tandem with the efforts toward developing a

national voluntary accreditation program for public health agencies. Because this is the third year such projects are being funded, it is referred to nationally as 'MLC-3.'

NJCEPH is facilitated by a partnership of the NJ Health Officer's Association, UMDNJ-School of Public Health – Office of Public Health Practice, and the NJ Department of Health and Senior Services. Its goal, in the short term, is to provide members of New Jersey's public health system with tools, technical assistance, and training in quality improvement to help them identify ways of improving their organization's performance. In the long term, the outcomes of participation will contribute to the national standards/metrics to be used in the public health voluntary accreditation process, anticipated to begin in 2011.

For more information on the Office of Public Health Practice, please contact Mr. Mitchel Rosen at mrosen@umdnj.edu.

PATIENT-CENTERED MEDICINE COURSE (RWJMS)

RWJMS launched a new course in 2006, *Patient-Centered Medicine*, to provide students with more opportunities early in their education to learn in clinical settings, to integrate basic science and clinical information, to address ethical issues, to teach communication skills, to enhance cultural competency, and to strengthen community service links. All students participate in service learning activities providing health education workshops in the community. All students also visit agencies that provide care in the community for disabled and other vulnerable populations. *Patient-Centered Medicine* fosters the value of community involvement and enhances opportunities for students to engage in community health programs. The course spans the first three years of the curriculum and provides longitudinal community experiences in New Brunswick and Camden.

PHYSICAL AND OCCUPATIONAL THERAPY (SHRP)

The Department of Rehabilitation and Movement Sciences offers full physical therapy and occupational therapy evaluation and treatment services to public school children in Newark, Paterson, Morristown and some private schools. These services are part of the faculty practice plan of the Department but also include opportunities for physical therapy students to participate as part of the Department's community service expectations. The service is provided to classified students at all levels of primary and secondary education in the school system. This service is the largest of its kind in the country offered wholly by a physical therapy program.

PRE-COLLEGE PROGRAM (SHRP)

The College Bound program offered jointly with New Jersey Institute of Technology and Rutgers University-Newark serves approximately 500 students in grades 7-12 from Newark, Irvington and East Orange. The program provides academic support through the academic year and generally offers a six-week full-time program in the summer.

PROJECT H.O.P.E. (SOM)

H. Timothy Dombrowski, D.O., chair of the UMDNJ-SOM Department of Internal Medicine, provides primary care to the homeless of Camden one afternoon per month in

collaboration with Our Lady of Lourdes Medical Center and the Volunteers of America Men's Shelter and Helen Smith House/Leavenhouse.

This clinic is one aspect of the larger program that provides medical, social, outreach, and advocacy services to Camden City's homeless via a mobile outreach unit. The outreach unit provides health screenings, counseling, and case management; two weekly satellite primary care clinics that provide physicals, non-emergency care, and case management; and a weekly evening clinic at the Bergen Lanning Health Center for extended follow-up. Christopher Myers, M.S.N., A.P., the nurse practitioner from St. Luke's, volunteers eight hours per month at the Bergen Lanning Health Center.

Among an estimated Camden homeless population of 3,500 to 6,500, 1,340 are Project H.O.P.E. users. Project H.O.P.E. is also a training site for the SOM Department of Medicine's federally funded Primary Care Internal Medicine Residency Program and its Inner City Medicine rotation.

RESPIRATORY CARE (SHRP)

The respiratory care faculty have launched the Asthma Education Program for Inner-City Children. This program provides school-aged children and their parents/guardians with educational information about the causes, management and treatment of asthma. Thus far, several parochial and public schools in northern New Jersey are participating in the program, and still others have expressed interest.

RWJMS OFFICE OF MULTICULTURAL AFFAIRS (RWJMS)

The RWJMS Office of Multicultural Affairs/Office of Special Academic Programs sponsors programs to address health disparities or focus on culturally competent health care as a way of eliminating health disparities. Its goal is to educate the medical school community regarding cultural issues affecting quality health care as well as to foster diversity through recruitment and retention of students underrepresented in medicine. The Office develops, organizes and sponsors educational, cultural and summer program activities that focus on increasing awareness and sensitivity so that students, staff, and faculty gain a better appreciation and respect for the differences that exist in our society.

SAINT JUDE'S HEART HEALTH COMMUNITY EDUCATION PROGRAM (SOM)

This community education program, funded by St. Jude's Medical Grant Committee in St. Paul, MN, emphasizes the importance of preventing heart disease, including the role of nutrition, exercise, weight loss, smoking cessation and cholesterol screening. Administered through the New Jersey Institute for Successful Aging (NJISA), the program will conduct a community needs assessment and develop a heart health curriculum to serve as the basis for the community education program. The program, which will be launched in the fall of 2008, is scheduled to be delivered in 2008 and 2009 to community-dwelling seniors in Camden County.

THE SCHOOL BUS EXPRESS IMMUNIZATION PROJECT (SN)

In September 2007, the Level III UMDNJ SN students, during their pediatric rotations, participated in the School Bus Express Immunization Project. This Project was implemented in collaboration with the Newark Department of Child and Family Well-

Being, which also served as a student clinical rotation site for the fall 2007 and spring 2008 semesters.

SENIOR HEALTH AND FITNESS DAY (SOM)

The Fifth Annual Senior Health and Fitness Day--sponsored by UMDNJ-SOM Marketing Department, Institute for Complementary and Alternative Medicine and the New Jersey Institute for Successful Aging (NJISA)--was held on Friday, June 20, 2008. Focusing on "Mind, Body and Spirit," the program included a Health Forum, featuring welcome and introductions by Dr. Anita Chopra, Director of Education and Clinical Programs for the New Jersey Institute for Successful Aging (NJISA); and "Bouncing Back from Adversity: Building Resilience in the Journey Toward Wellness," by Dr. Robin L. Eubanks, Associate Professor at UMDNJ-School of Health Related Professions. The balance of the day included exercise demonstrations, health screenings, entertainment and exhibits. A total of 41 local and statewide organizations participated.

SOM CHAPTER OF THE STUDENT NATIONAL MEDICAL ASSOCIATION (SOM)

The Student National Medical Association (SNMA) chapter at SOM was named the Northeast region's "Chapter of the Year" by SNMA 's national board at the 2007 Annual meeting.

Established in 1964, SNMA is the nation's oldest and largest medical student organization dedicated to ensuring culturally sensitive medical education and services, as well as increasing the number of African-American, Latino and other students of color entering and completing medical school.

Selected from among the 18 SNMA chapters in the region, the members of UMDNJ-School of Osteopathic Medicine's chapter were noted for their tireless work to promote the SNMA mission of cultural competence and service to the medically underserved. Among the many events sponsored by the local SNMA chapter were a series of community lectures on topics related to health disparities, free health screenings at several events, a school supplies drive for Operation Backpack, a bone marrow donor registration drive and a fashion show and fundraiser to benefit local charities.

SOM COMMITMENT TO OUR HOST COMMUNITY, THE BOROUGH OF STRATFORD (SOM)

Under the leadership of UMDNJ-SOM Interim Dean Thomas A. Cavalieri, D.O., there is a strong school-wide commitment to being a good neighbor with Stratford. Stratford is a 1.6 square mile borough comprised of 7,271 residents, 2,736 households and 1,906 families in Camden County.

SOM and its student organizations provide a wide array of health-related services to Stratford schools and community organizations, including blood pressure screenings, diabetes testing, flu immunization programs and regular education programs that are well attended by the community.

SOM's leadership of the Steering Committee that formed the Stratford Business and Civic Association (SBCA) in 2004 has demonstrated support for the borough's business

community. SOM's Director of Strategic Planning and Program Development served as the organization's first President in 2005.

SOM DEPARTMENT OF FAMILY MEDICINE (SOM)

The SOM Department of Family Medicine has formed an interdisciplinary partnership with Rutgers, The State University of New Jersey, Graduate School of Social Work, to teach a course entitled "Cultural Competency and Interdisciplinary Healthcare Delivery." Through this course, medical students, graduate students in social work and other healthcare professionals from the community are trained to be culturally competent and skilled in interdisciplinary healthcare delivery.

The Area Health Education Centers (AHECs) support this course by providing a two-week service-learning experience for these medical students at host sites in a medically underserved community. These sites include a homeless shelter, an HIV/AIDS mobile van, a senior center, a primary care clinic, and a hospice. Students implement the cultural and interdisciplinary skills learned in the course in their community service rotation.

SOM HIGH SCHOOL STUDENT ShaD.O.w PROGRAM (SOM)

The ShaD.O.w program was established to encourage local high school students with an interest in the medical profession to move toward more concrete goals. This is accomplished by immersing the students in the graduate level academic environment, encouraging them to interact with students and faculty, and exposing them to the overall medical experience for a day.

The goals of the program are:

- To give high school students with an interest in the medical professions the opportunity to experience a day with a medical student at UMDNJ-SOM
- Increase local high school students' awareness of osteopathic medicine
- Increase high school students' awareness of UMDNJ-SOM

The ShaD.O.w program began in October 2006 with two high school students from Cherry Hill East participating in the program. Currently students from both Cherry Hill East and Cherry Hill West high schools participate. A total of 62 students shadowed medical student mentors during the 2007-2008 academic year. The program was expanded to Burlington County this year, with participation by students from Delran High School.

SPECIAL OLYMPICS–SPECIAL SMILES NJ (NJDS and SHRP)

The mission of the Special Olympics-Special Smiles program is to increase access to dental care for Special Olympics athletes, as well as all people with intellectual disabilities. Dental screenings, oral hygiene instruction, nutrition education, blood pressure screening and the fabrication of sports mouth guards are part of a collaborative effort by NJDS and SHRP to focus attention on the dental health issues facing New Jersey's Special Olympics athletes.

The two UMDNJ Schools also sponsor a health and wellness center for the **Healthy Athletes Initiative** of New Jersey Special Olympics, providing education and community service to New Jersey residents who join in Special Olympics activities.

The mission of the **Special Olympics-Healthy Choices program** is to increase awareness in the areas of nutrition education, blood pressure screening, height and weight, vascular, respiratory (pulse oximeter) and clinical laboratory science. SHRP provides these services as part of its Special Olympics collaborative effort with NJDS.

For the 12th year, data collected at the NJ Special Olympics Summer Games will help to generate a snapshot of the oral health of a representative sample of the hundreds of thousands of Special Olympics athletes around the world. This data is used to encourage increased education and funding. Oral and nutrition research projects identifying oral and nutrition health status of these athletes have been presented and published on the international level, and have been used to support the need for extended services to this population.

SPH / CROATIA PARTNERSHIP (SPH)

A Cooperative Agreement between the U.S. Agency for International Development and American International Health Alliance, Inc enabled the formation of a partnership between the UMDNJ-School of Public Health in Piscataway, New Jersey and the city of Split, Croatia, Healthy Cities Program, in November of 2001. Members of the SPH team from the Department of Health Systems and Policy and the Department of Health Education and Behavioral Science conducted in-person meetings for five years and now continue the collaboration long-distance. Faculty members provide technical assistance with the planning and implementation of public health interventions focusing on prevention of adolescent alcohol use. Faculty members have provided training in the Project Northland curriculum—a school-based, three-year adolescent alcohol prevention intervention being implemented in 13 schools in the city of Split. In addition to SPH faculty, the Partnership team consists of the director of the city of Split Social and Non-Governmental Organizational Programs, the director of Domestic Violence Services, and the chief of the Department of Addictions. For more information contact Dr. Bernadette West at westbm@umdnj.edu.

STANDARDIZED PATIENT LABS (SOM)

UMDNJ-SOM is a pioneer in developing Standardized Patient Labs that assess medical students caring for patient “actors”, thereby providing evaluation not only of diagnostic skills, but of cultural competency as well. The full survey of SOM by the Commission on Osteopathic College Accreditation (COCA) in September 2006 presented a commendation for the school’s inclusion of cultural competency in the Standardized Patient Lab. In recognition of SOM’s leadership, former Acting Governor Richard Codey came to the school’s Stratford campus on March 23, 2005 to tour the Standardized Patient Labs and sign legislation requiring cultural competency education as a requirement for medical licensure in the State.

STATE PARTNERSHIPS FOR TRAINING IN GERIATRICS AND GERONTOLOGY (SOM)

The SOM New Jersey Institute for Successful Aging (NJISA) and the New Jersey Geriatric Education Center (NJGEC) continue to work collaboratively with other institutions and organizations to provide training on a variety of aging-related topics.

In November of 2007, NJISA and the NJGEC participated in program planning and served as a co-sponsor for the annual conference of the New Jersey Geriatrics Society, in collaboration with the Long Term Care Leaders Coalition. The statewide conference, entitled, "Stay Ahead of the Curve: Yielding to Current Issues in Senior Care," included nationally known speakers and was attended by over 200 health care professionals of multiple disciplines from throughout the state.

The NJGEC and NJISA continue to provide faculty support for the University Behavioral HealthCare-Technical Assistance Center as part of their contract with NJ Division of Mental Health Services. In June of 2008, a series of three workshops on "Best Practice: Strategies for Assessment, Intervention and Managing Behaviors in LTC Settings" was conducted throughout the state for administrators and health care professionals of multiple disciplines who work in nursing homes and assisted living facilities. These workshops included content focused on mental health and state screening laws, pre-admission screening for Medicaid nursing home placement, and assessment and intervention strategies for managing behavioral health problems. This is part of a larger state-supported initiative in "transformational change" in the mental health system.

The Blueprint on Aging for the State of New Jersey is currently under development through the NJ Department of Health and Senior Services and the NJ Commission on Aging Subcommittee on Health Promotion. The NJISA co-chairs the subcommittee and provided content, images and critique for the report.

The NJISA is working closely with the UMDNJ-School of Nursing and the UMDNJ-School of Public Health to increase training opportunities in aging for students and health care professionals.

NJISA continues to offer clinical practicum experiences for nursing, social work and psychology, and nutrition students from UMDNJ sister schools, Drexel University, Rutgers School of Social Work, The College of New Jersey, and The Richard Stockton College of New Jersey.

NJISA offered an all-day Symposium on Geriatric Oncology on Friday, October 19, 2007, in collaboration with the Cancer Institute at Cooper Medical Center. Physicians from NJISA and Cooper were the featured speakers.

In another joint research project, the UMDNJ-School of Health Related Professions and the NJISA provide medical nutrition therapy to community-dwelling seniors who use the NJISA for primary care medical services. Interventions include monitoring weight, blood pressure, body fat and eating and exercise habits. This individually designed program provides participants with nutrition assessment; identification of nutrition-related health problems, such as diabetes, heart disease, and cancer; and diet counseling, behavioral modification, and dietary intervention, including how to track what they eat. There is also an exercise component, which includes a walking program.

ST. LUKE'S CATHOLIC MEDICAL SERVICES (SOM)

Lesley A. D'Ambola, D.O., of the UMDNJ-SOM Department of Medicine, provides the medical directorship and clinical care at St. Luke's Catholic Medical Services in Camden, NJ. Christopher Myers, M.S.N., A.P., a nurse practitioner, joined Dr. D'Ambola in the practice in May 2004. St. Luke's is a primary care medical practice for the poor, uninsured and underinsured community of the City of Camden; it was founded in 1983 as a joint venture of the Diocese of Camden and the Jesuit Urban Service Team (J.U.S.T.).

Since St. Luke's is one of the few medical practices with a fluent bilingual staff, it attracts a predominately Latino clientele. St. Luke's serves a population that is 60% Latino, 30% African-American, and 10% White. Thirty percent of its patients have no health insurance. Its professional staff includes a physician, a nurse, a nurse practitioner, three nursing assistants, and administrative staff. The addition of the nurse practitioner to the staff has enabled St. Luke's to add a home visit component to its service delivery model.

In addition to primary care, St. Luke's staff provides individualized health education programs and preventive health care with a focus on cancer screening and immunizations. In 2007, there were over 6,500 patient visits at St. Luke's, with Type II diabetes mellitus, hypertension, hyperlipidemia, asthma, and anemia the most common diagnoses.

St. Luke's is a training site for the medical school. It provides UMDNJ-SOM's medical students, internal medicine residents, and geriatric fellows with a unique opportunity to learn about the practice of community-based, urban medicine. St. Luke's also offers a training experience designed to cultivate an appreciation of cultural diversity and to impart the knowledge and skills needed to provide culturally competent medical care. In addition, St. Luke's serves as the keystone training site for a Primary Care Internal Medicine Residency Program funded by the U.S. Department of Health and Human Services/Health Resources and Services Administration to train general internists to provide primary care to medically underserved populations.

A related program is Dayton Manor, an assisted living facility in Camden. It formerly served as a retirement home that provided meals, laundry, and basic housekeeping services to its residents, many of whom came from State institutions for the mentally ill, boarding homes, or other residences. The population was medically complex with many physical and mental challenges. Many of these residents remained when the facility converted to assisted living in 2004.

Like St. Luke's Catholic Medical Services, Dayton Manor is a training site for the SOM Department of Medicine's federally funded primary care internal medicine residency program. Along with St. Luke's and Project H.O.P.E., Dayton Manor is also a training site for SOM fourth-year medical students. Dr. D'Ambola of the General Internal Medicine Division serves as Medical Director and provides clinical services along with Mr. Myers, a nurse practitioner.

STATEWIDE NETWORK FOR COMMUNITY ORAL HEALTH EXTRAMURAL DENTAL CENTERS (NJDS)

The New Jersey Dental School has shown its commitment to Newark and the State of New Jersey with the creation of the Statewide Network for Community Oral Health. A needs assessment was performed which revealed that access to dental care was a problem for historically underserved populations; i.e., the low income, the indigent elderly, migrant workers and their families, those physically and mentally challenged, and patients living with HIV/AIDS. The purpose of the Statewide Network for Community Oral Health is to carry out the educational and service missions of the University and the Dental School. The Statewide Network provides dental services to communities throughout the State of New Jersey, with dental centers in Atlantic, Camden, and Somerset Counties.

The Statewide Network and the New Jersey Dental School in Newark had over 140,000 patient visits this past year. The dental centers in the Statewide Network serve as a venue for increasing the number of oral health care providers in underserved communities in New Jersey; increasing access to quality oral health care; and expanding the educational component of training proficient oral health care providers who are culturally competent and sensitive to the needs of the underserved.

STUDENT HEALTH ADVOCATES FOR RESOURCES & EDUCATION CENTER (S.H.A.R.E.) (NJMS)

Service is not a duty, it is an honor. Student Health Advocacy for Resources and Education (S.H.A.R.E.) stresses the privilege and power of such outreach. In 1996, students at the UMDNJ-New Jersey Medical School created the S.H.A.R.E. Center, an organization dedicated to encouraging and mobilizing all medical students to become more involved with the Newark community. SHARE has three objectives:

- To establish and maintain community partnerships in order to improve the quality of outreach programs through ongoing community needs assessment.
- To encourage health promotion and disease prevention in the underserved Newark community and provide opportunities for patient and student education.
- To maintain the sustainable infrastructure that assumes responsibility for coordinating student projects and centralizes operations of existing community service programs at NJMS.

S.H.A.R.E., an umbrella organization, supports seven different service groups, allowing NJMS students to pursue patient care, community education, youth mentoring, and more. S.H.A.R.E. activities make these students a true part of the Newark community.

Students Teaching AIDS to Students (STATS)

STATS is an outreach program in which first- and second-year medical students lead sexual health workshops for Newark's middle and high school students. The workshops focus on disease prevention through education and empowerment of teens to make healthy choices. Activities include tutoring at the Academy Street Firehouse, mentoring children at the Francis Xavier Bagnoud (FXB) Center, and conducting educational events for medical students and the NJMS community. STATS also promotes HIV advocacy through World AIDS Day and World AIDS Week lectures, films, and discussions.

Student Family Health Care Center (SFHCC)

SFHCC is the student-run clinic at UMDNJ. Running for over 40 years, the SFHCC provides free, quality medical care to the Newark community. Under NJMS faculty, teams of medical students treat individuals of all ages, often with no insurance coverage. Throughout their four years of medical school, the SFHCC provides an opportunity for students to enhance their clinical skills.

Community 2000 (C2000)

C2000 is an outreach organization that serves the Newark community through health promotion and disease prevention. This organization assesses community health needs at local health fairs and addresses these needs through interactive adult workshops. C2000 also holds after-school workshops for Newark's youth to promote healthy lifestyles. Participation in C2000 allows medical students to gain valuable skills in clinical medicine and patient education. C2000 organizes health fairs at community sites once a month. Patients are provided free screenings for hypertension, diabetes, vision and body mass index by teams of medical students. Patients discuss their screening results with a medical student and attending physician and can request additional material on other health topics. If necessary, health fair patients are referred to the SFHCC clinic for follow-up appointments.

New Moms Program

In 2002, SHARE Center launched its latest initiative to impact the care of young mothers within the city of Newark. This program is designed to increase awareness about women's health among medical students as well as future mothers, and to encourage a healthy lifestyle during and after pregnancy. As a community-based health care organization, medical students will enter the Newark community and effectively communicate with pregnant women about pressing maternal and prenatal health issues, identify at-risk mothers, and provide interventional support to increase the health and well-being of mothers and children in the city.

Early Start Mentoring Program

This is a community outreach project that places trained mentors into Newark elementary schools to promote positive social behavior and non-aggressive conflict resolution. The focus of the program is to develop self-esteem and social problem-solving skills, while offering a caring and supportive outlet for Newark's youth. ESMP is designed to help provide these children with a foundation for accomplishing their future educational and social goals.

Unite For Sight

This is an organization dedicated to eliminating preventable blindness through screening and education and to developing sustainable solutions to reduce health disparities. The NJMS chapter of Unite for Sight is involved in the following activities:

- Preliminary vision screenings for children and adults in soup kitchens, homeless shelters, schools and at C2000 health fairs.
- Enrollment in insurance and free health coverage programs (Children's Health Insurance Program, Academy of Ophthalmology's National Eye Care Projects, Academy of Optometry's VisionUSA, Sight For Students, Medicare, Medicaid, VA Insurance).

- Vision education program presentations teaching students and adults about eye anatomy and eye disease by examining the history of ophthalmology through unique perspectives, such as the comparison of ancient and modern ophthalmologic procedures, art history seminars addressing eye disease in eminent artists and discussing of the social history of eyeglasses.

Program in Advocating Community Leader Empowerment (PINACLE)

The goal of PINACLE is to establish a collaborative partnership between NJMS students and the permanent residents of the Newark community. Specifically, PINACLE seeks to develop a comprehensive primary health prevention program within the SHARE Center. The goals and objectives are as follows:

- To facilitate community access to NJMS services including those targeting the uninsured.
- To streamline efforts to avoid duplication of service by fostering collaboration between medical students, other health related students, and faculty.
- To facilitate networking among community interest groups and interested faculty and students.
- To ensure name recognition of the New Jersey Medical School within and beyond the immediate community.
- To gain a better understanding of the community including what resources are available and which populations are currently not being served.
- To better coordinate the service programs provided by University Hospital and other UMDNJ schools on the Newark campus.
- To improve the ability to identify and address which community health needs are being met and which are not.

SUMMER MEDICAL AND DENTAL EDUCATION PROGRAM (SMDEP) (NJMS)

The SMDEP at NJMS/NJDS serves to advance our core mission of meeting society's current and future healthcare needs by preparing individuals underrepresented in medicine and dentistry, and doing so while championing cultural competency and humanism in all aspects of education. SMDEP reaffirms our continued commitment and involvement in pipeline initiatives and will allow us to attain even greater diversity. SMDEP will also allow us to continue strengthening the academic portfolios of these college students so that they are competitive candidates for medicine and dentistry.

SMDEP is one of twelve national programs funded by the Robert Wood Johnson Foundation and administered through the Association of American Medical Colleges and the American Dental Education Association. It is a free (full tuition, housing, and meals) six-week summer medical and dental school academic enrichment program that offers highly motivated rising freshman and sophomore college students intensive and personalized medical and dental school preparation.

The SMDEP builds on our 30 years of experience in providing academic enrichment programs geared toward attracting students into the health sciences. The curriculum has been carefully designed to enhance students' skills academically and personally, a requisite for success in medical/dental school. The program will strengthen students' skills by providing the science course work, critical thinking, problem solving, and

communication skills necessary to ensure that they are competitive for medical/dental school.

The content will include an introduction of academically challenging courses with an emphasis on the acquisition of skills based on principles of adult learning. By the completion of the program, students will be able to identify and apply strategies and skills that work best for them. Specifically, our ultimate goal is to make the learner responsible for their education, a requirement of the life-long learning skills expected of the medical and dental profession.

Overall objectives of the SMDEP:

- Involving the student in a problem-based learning model of science education used to promote critical thinking skills and the acquisition of study skills and strategies
- Improving students' writing and communication skills as they relate to success in the practice of medicine and dentistry
- Assisting each student to develop and implement a personal academic and career plan
- Increasing students' awareness of diverse and/or underserved populations and how this affects the practice of medicine and dentistry
- Providing students with a limited but informative set of clinical experiences under the direction of outstanding faculty preceptors and role models

THE TOBACCO DEPENDENCE PROGRAM (SPH)

The Tobacco Dependence Program at the UMDNJ-School of Public Health is part of a broad range of services developed by the New Jersey Department of Health and Senior Services to reduce illness and death from tobacco. The program comprises a multidisciplinary team with specific expertise in treating tobacco dependence and in training other health professionals to do so effectively. More details on the work of the program can be found at <http://www.tobaccoprogram.org>.

The Tobacco Dependence Clinic

The Tobacco Dependence Clinic opened its doors in January 2001 to provide specialist assessment and treatment for people who want help relating to tobacco dependence. By June 2007, the Clinic has seen over 3,500 patients, approximately 30% of whom remain abstinent six months following their original quit date. The clinic opened a second site in Newark in January 2007 and also serves as a tertiary referral and consultancy center for health professionals throughout New Jersey who may need assistance. For more information visit <http://www.tobaccoclinic.org>.

Tobacco Training and Consultancy for Health Professionals

The Tobacco Dependence Program offers specific consultation and training services for treatment and service providers throughout New Jersey, with particular focus in the areas of addictions, mental health and young people. These are three special populations with a high prevalence of smoking but limited access to treatment. Recent examples of work include:

- Training of staff members at over 40 New Jersey high schools to implement the "Youth Quit2Win" smoking education and cessation program
- Training of over 700 Tobacco Dependence Treatment Specialists through a five-day intensive program.

Tobacco Control in the Community

The Tobacco Dependence Program (TDP) also has two grants aimed at community level interventions on tobacco control. One is from the Rutgers Community Health Foundation and aims to stimulate smoking cessation in New Brunswick's Latino and African American communities, (www.proyectovidanofume.org) and the TDP also organizes the Middlesex Partnership Against Tobacco (MPAT).

Research

The TDP is active in tobacco research and has published over 70 papers in peer-reviewed journals over the past seven years, including many authored by MPH students on work conducted with community agencies for fieldwork placements.

For more information about the Tobacco Dependence Program, please contact Dr. Jonathan Foulds at fouldsia@umdnj.edu.

TRINKETS AND TRASH: ARTIFACTS OF THE TOBACCO EPIDEMIC (SPH)

This program monitors and collects current and historic examples of tobacco products, promotional items, tobacco marketing materials and advertising. It is intended to serve as a source for scholarly research; provide a historic record of tobacco industry products, marketing and promotion; and serve as a tool for advocacy and educating the general public. The website <http://www.trinketsandtrash.org> features downloadable images of the newest products and promotions, along with images of older, more familiar items and some rare antiques. These images are provided to public health professionals to illustrate the long history of the tobacco industry's inventive and seductive marketing and promotional campaigns. Examples of the collection are on display at SPH in Piscataway. For more information on this project contact Dr. Jane Lewis at lewismj@umdnj.edu.

UMDNJ-RWJMS DEPARTMENTAL ACTIVITIES (RWJMS)

Community service is at the core of many of the research and clinical activities of the Department of Environmental and Occupational Medicine and the Environmental and Occupational Health Sciences Institute (EOHSI). The **World Trade Center Medical Monitoring Program** provides outreach, diagnosis, support, and state-of-the-art-treatment to the virtual community of New Jersey responders who are still suffering after their work at this disaster site. On a smaller scale, much of the clinical work performed at the Clinical Center of EOHSI interfaces with neighborhoods, schools, and workplaces affected by exposures to toxic or hazardous pollutants, including some communities that receive ongoing medical surveillance for their prior exposures. In addition, research occurs in venues such as the New Jersey Turnpike and union halls across the region, as the Department and the EOHSI strive to understand the health hazards that affect our communities and workplaces.

In conjunction with medical student training, faculty volunteers at The Promise Clinic in New Brunswick perform medical examinations for urban minorities. Faculty have

developed a **Healthy Homes Demonstration Project** with Isles, Inc, of Trenton. Building on the previously successful efforts of *Dust Does Not Discriminate*, *Healthy Homes Mold Project* and *Arrest the Pests in Your Nest*, faculty developed a VHS and an English and Spanish language DVD training module on mold and other environmental contaminants in the home. Entitled "the Healthy Homes Video," the target audience is urban minority residents. Another ongoing Department project is the work being done in the Camden community through many churches and community groups, including Heart of Camden, to address methods of reducing community exposure and risk to toxins in the South Camden area.

The Department is also developing a pilot community assessment course for Trenton community members to learn how to recognize, assess, evaluate and remediate community hazards. In addition, a Community Based Sampling course is being developed for students in the graduate programs in Public Health, Toxicology, and Environmental Science to learn how to assess, sample and analyze an urban site and to deliver the information to the community.

Faculty are again actively screening homes and residents for Chromium contamination in Jersey City and other Hudson County locations, a residue of past waste dumping practices.

The Department of Family Medicine's Institutional Profile involves students in community-based activities from the first year of medical school through the residency program in family medicine.

The goals of the Department of Family Medicine's community-based initiatives are:

1. To encourage an ethic of community service and social responsibility in medical students and residents. This involves training them in the context of community service.
2. To equip the next generation of health professionals with the community oriented and culturally sensitive competencies needed to make a difference in the lives of their patients and clients and the communities they serve.
3. To foster partnerships between community organizations and UMDNJ-RWJMS to promote the health of underserved/vulnerable populations.

The Department of Family Medicine developed a number of community-based initiatives to help meet these goals.

At the undergraduate level, during the third-year family medicine clerkship, all medical students participate in community-based service learning that has been incorporated into the curriculum. These activities are complemented by didactic sessions on community-oriented primary care and principles of population-based health care. In addition, students may elect to participate in an eight-week Community-Oriented Primary Care (COPC) Assistantship between the first and second year of medical school. Students in COPC, who must complete independent projects, are assigned to a community-based health care or social service organization and attend weekly seminars covering topics aimed at increasing student awareness about the principles and practice of COPC,

health disparities, population assessments, and culturally competent clinical care. Students also participate in a tour of local botanicas and bodegas.

The New Brunswick RWJMS Family Medicine Residents provide quality primary care services to many of greater New Brunswick's uninsured and underinsured citizens, many of whom are not documented. Patients are seen in the Family Medicine Service and at clinics within RWJUH; Family Medicine at Monument Square; St. John's Clinic; soup kitchens; homeless shelters; senior citizen apartments; long-term care facilities and in patients' own homes.

Additionally, the New Brunswick RWJMS Family Medicine Residents provide primary care services to the greater New Brunswick community. As part of their training, all second-year residents participate in a cross-cultural community medicine rotation at St. John's Health Center in New Brunswick. The goal of the rotation is to encourage residents to practice in medically underserved urban areas by offering a rewarding learning experience that enhances their skills in providing culturally sensitive, community-oriented primary care to a diverse and indigent population. Residents learn about different multicultural populations and became familiar with managing clinical issues prevalent in the community (e.g. lead poisoning, immunizations, TB exposure, HIV, substance use, health problems exacerbated by poverty and homelessness). They participate in community-based health care activities including seeing patients at a child health conference, a pap/mammogram screening, and volunteering at a local soup kitchen. Community site visits included the Middlesex County Board of Social Services, a homeless shelter, a botanica and bodega, and accompanying St. John's prenatal and immunization outreach workers on home visits. In addition, residents conduct community presentations at the Edison Job Corps Academy, Ozanam Men's Homeless Shelter, and Naomi's Way, a transitional housing facility for women and their children. Presentation topics include personal hygiene, nutrition, and respiratory illnesses. As part of their longitudinal community medicine experience, Residents also participate in community-based activities such as school physicals, health fairs, pap and mammogram screenings, prostate cancer screenings, and community presentations.

All residents, first year through the third year and many faculty members provide other educational and clinical care services to local communities. The following services were provided by residents and residency faculty:

<u>Community Affiliation</u>	<u>Services</u>
St. John's Health Center, New Brunswick	Clinical care for indigent populations
American Academy of Family Physicians	Tar Wars - Anti-smoking presentations for local 4th and 5th graders
Trinity Health Center, Perth Amboy	Clinical care for indigent populations
Women's Health Center, Somerville	Women's clinical health services

Geriatric home visits	Medical care for home-bound patients in the local New Brunswick area
Jewish Renaissance Medical Center, Perth Amboy	Screenings for breast, uterine and prostate cancer
Naomi's Way, Catholic Charities, New Brunswick	Presentations on preventive health care
Old Bridge Township Elementary, Middle, and High Schools	School physicals and pre-participation examinations
Ozanam Family Shelter, Edison	Presentations on preventive health care
Ozanam Men's Homeless Shelter, Catholic Charities, New Brunswick	Presentations on preventive health care
New Jersey State Division of Developmental Disabilities	Medical care for over 250 patients and their caregivers
New Brunswick High School Parent/Infant Care Center (PIC-C)	Medical care for teenage moms and their children
Parker Nursing Home, Piscataway and New Brunswick	Continuing education on medically related topics for nurses and staff
Center for Healthy Aging – Parker Stonegate	Patient care for the elderly and employees at Parker Stonegate
Puerto Rican Action Board (PRAB) and Robert Wood Johnson University Hospital	Presentations for parents of children in PRAB's Day Care Centers about childhood health
Read Across America	Read books to local elementary and middle school students
Robert Wood Johnson University Hospital, Community Health Fairs	Health screenings, particularly for cancer
Special Olympics	Team doctors
Woodbridge Township Health Department	Screenings for breast, uterine and prostate cancer
Edison Job Corps Academy	Screening students by providing physicals and medical clearance
Martin and Edith Stein Hospice	Clinical care for the elderly

Matheny Center of Medicine and
Dentistry

Patient care

The **Center for Healthy Families and Cultural Diversity**, within the Department of Family Medicine, was created in 1988 to improve the delivery of culturally responsive, family centered health care to diverse populations. Programmatic activities of the Center include technical assistance and consultation, education and training, and research and evaluation. Each year, faculty give invited lectures, seminars, and workshops on culturally and linguistically competent care to a wide variety of health care professionals and organizations, including academic medical centers, hospitals, ambulatory care facilities, community organizations, managed care plans, and governmental agencies in the United States and abroad.

Center for Healthy Aging at Parker (CHAPS) was launched in 2006 to enhance clinical care services to Parker residents living both within institutional settings and in the community through ambulatory care services coordinated at an outpatient office facility maintained on-campus by Parker. CHAPS will train health professionals of varied disciplines in the art and science of geriatrics and gerontology, including a geriatrics medicine training program for physicians wishing to specialize in geriatrics. It will also develop and foster coordinated multidisciplinary research between institutions such as nursing homes and the academic health sciences center.

The Department of Obstetrics, Gynecology and Reproductive Sciences collaborates with both the UMDNJ Newark campus on community outreach programs and two federally funded health centers: EBCHC located in New Brunswick, NJ and Plainfield Health Center located in Plainfield, NJ. Department physicians provide obstetrical and gynecological services as well as high-risk pregnancy consultations and care to the women attending these health centers.

In addition to clinical services, under the leadership of the department's PhD nutritionist, the Department has:

- a. established a partnership and collaborating mechanisms with the Mt. Zion AME Church to conduct health screenings and education activities for members of the church and the New Brunswick community at large
- b. established a working relationship with the HIPHOP Promise Clinic to conduct joint health screenings for the New Brunswick communities
- c. been invited to present and participate in health activities at Rutgers University through the Willet Health Center programs
- d. provided representation to New Brunswick Tomorrow, and participated in the Get Fit Coalition, a program designed to prevent childhood obesity in the New Brunswick Public School system and New Brunswick communities
- e. been invited to participate in the New Brunswick Mayor's wellness programs that target healthy eating and increased physical activity for residents, children and adolescents, in particular, of New Brunswick
- f. been invited as regular participants in Congressman Payne's program on preventing the development of obesity among minority groups in Newark
- g. been invited as annual presenters on nutrition and health at the Caregivers Retreat for Women conducted by the Robert Wood Johnson Hamilton Center for Health and Wellness

- h. been chosen as a representative of the HHS regional (New York/New Jersey) office for women to train community leaders in nutrition and healthy living

The Department also serves the community with educational workshops directed at children and adults. The Department takes a leading role in an outreach program that extends across the state inviting young people to experience what it's like being a student doctor. The event is run by the medical and dental students studying at UMDNJ. Two of these events are coordinated annually, one in the spring and one in the fall, with each event serving over 200 children. The fall event takes place on the New Brunswick Campus in conjunction with National Make a Difference Day. During the spring event on the Newark Campus, student participants put together packets for our troops serving in Iraq. In addition to these two major state wide outreach events, the Department holds lunch time educational seminars on the New Brunswick campus addressing women's health issues such as bone health.

The Department also participates in several health fairs such as one that is run in conjunction with National Stroke Day. Faculty members work as mentors with students in the New Brunswick Health Science Technology High School in a Career Shadow program to encourage young adults to pursue careers in science. The Department offers education and alternatives to women with menstrual hemorrhage, pelvic pain and uterine fibroids, and offers an HPV vaccination program for young women. The Department also assisted in presenting programs geared at pelvic floor dysfunction and brought in as a speaker, Dr. Eboo Versi, who is a world renowned urogynecologist. The department also collaborates on educational events with the New Jersey magazine entitled, "Garden State Woman."

The Elizabeth M. Boggs Center on Developmental Disabilities, within the Department of Pediatrics at RJWMS, is part of a national network of University Centers for Excellence in Developmental Disabilities Education, Research, and Service. The Boggs Center is sponsored by the Administration on Developmental Disabilities, Administration for Children and Families, U.S. Department of Health and Human Services. The Center is contracted by the NJ Department of Human Services, Division of Developmental Disabilities; the NJ Department of Education, Office of Special Education Programs; and other state and local funders. The Center provides community and student training and technical assistance, conducts research, disseminates educational materials, and responds to requests for information. The Boggs Center promotes a community-based, life span approach to the delivery of community supports for people with developmental disabilities. While it does not provide clinical services directly, it helps to increase the capacity of service providers and systems of care in New Jersey. Boggs Center personnel serve on state and national boards and committees including:

- Governor's Council on the Prevention of Mental Retardation and Developmental Disabilities (Gubernatorial Appointment)
- NJ Advisory Council on Traumatic Brain Injury (Gubernatorial Appointment)
- NJ Council on Developmental Disabilities (Gubernatorial Appointment)
- NJ Division of Medical Assistance, Medical Assistance Advisory Council (Chair)
- Rutgers University School of Social Work, Continuing Education & Professional Development Program, Certificate Program in Developmental Disabilities (Chair)
- Human Services Management Advisory Council (Member)

- Rutgers University School of Social Work Field Education Committee; Council on Quality & Leadership (Board Member)
- TASH (Board Member)

Boggs Center faculty serve as editors of the *Journal of Religion, Disability, and Health* and the *National Association for the Dually Diagnosed Bulletin* and serve on the editorial boards for the *Journal of Positive Behavior Interventions and Research and Practice for Persons with Severe Disabilities*. Ongoing projects include the Developmental Disabilities Lecture Series, Clinical Pastoral Education, Faith-Based Supports, Self-Directed Supports, Direct Support Workforce Development, Inclusive Education, Interdisciplinary Traineeship Program, Positive Behavior Supports, Transition from School to Adult Life, and Supported Employment. Participants in Boggs Center training programs include individuals with disabilities and their families, students, and professionals in health care, education, social services, and other disciplines.

The Division of Allergy, Immunology, and Infectious Disease within the Department of Pediatrics at RWJMS provides inpatient and outpatient clinical care, trains residents and medical students, and participates in numerous public and community events. Physicians give Grand Rounds at community hospitals and provide formal lectures to medical students, serve as faculty advisors, and supervise resident rotations. Throughout the year faculty members co-host a bi-weekly radio show, "Your Child and You", and participate in various community health fairs.

Within the division, the **Robert Wood Johnson AIDS Program (RWJAP)**, a site of the New Jersey Family Centered HIV Care Network, provides HIV/AIDS education and training to professionals in health care, education, social services, and other disciplines. RWJAP enjoys a host of linkages with HIV and non-HIV agencies such as community-based organizations, local and regional planning boards including the NJ HIV Community Prevention Planning Group (CPG), and social service agencies. RWJAP currently provides on-site HIV counseling and testing and provides outreach prevention services to the local schools and community-based organizations. Ongoing community activities include Case Study Days, Family Day, Vision Day, weekly testing at the Middlesex County STD Clinic, DYFS Nurses Trainings, National Women HIV/AIDS Awareness Day, National Latino AIDS Awareness Day, and World AIDS Day.

Pediatric Genetics, a division of the Department of Pediatrics at RWJMS, is part of a comprehensive program providing a full range of clinical genetic services. The Division provides internships for genetic counseling students and electives for third- and fourth-year medical students and pediatric residents. The Division participates in the Department of Health and Human Services Metabolic Genetic Task Force and Metabolic Advisory Committee and the Human Genetics Association of New Jersey. The Division also participates in the New York Mid-Atlantic Consortium for Genetics and Newborn Screening Services and provides community education on genetic topics through CME programs and lectures.

The Division of Child Neurology & Neurodevelopmental Disabilities within the Department of Pediatrics at RWJMS provides a full range of clinical services for children with all types of neurological disorders. The large patient population serves as a basis for an active teaching service for medical students, pediatric residents, neurology residents, psychiatry fellows, and child neurology fellows as well as a population base for clinical research. The division is a site for the training of neurology residents in

conjunction with the New Jersey Neuroscience Institute at JFK Medical Center, Edison, and Child Neurology fellows in conjunction with the Child Neurology division of the New Jersey Medical School, Newark. Ongoing research projects in the section of Child Neurology include folate transport into the brain, cognitive effects of anticonvulsants, genetics of idiopathic generalized epilepsy, and new medications for migraines in children. The section of Neurodevelopmental Disabilities is actively involved in Autism research, including studies of the role of environmental toxins, and the genetic similarities between language disorders and autistic disorders.

The Comprehensive Sickle Cell Center at Robert Wood Johnson Medical School, a program of the Division of Pediatric Hematology/Oncology (Department of Pediatrics) provides clinical services to patients with Sickle Cell Disease in three centrally located centers (The Cancer Institute of New Jersey in New Brunswick, Jersey Shore University Hospital in Neptune and a once-a-month clinic on the Mercer Campus of Capital Health System in Trenton.) The program works through a team approach model and is made up of a physician, a pediatric advanced nurse practitioner and a counselor. The team not only treats patients and conducts research, but it also provides educational seminars to help patients and their families cope with the complexities and complications of living with Sickle Cell Disease. This past academic year, the team hosted an Education Night which focused on learning more about Sickle Cell Disease and how to prevent complications of the disease. The attendees were able to learn about how blood flows through blood vessels, saw red blood cells under the microscope, had the opportunity to ask questions from experts and listened to a talk about research and treatment options for those living with Sickle Cell Disease.

The program is partially funded by the State of NJ's Department of Health and Senior Services, Newborn Screening and Genetic Services, Special Child Health and Early Intervention Services. This funding allows outreach to indigent populations in underserved communities such as Trenton.

The Institute for the Study of Child Development is a research center comprised of psychologists, educators, and other professionals interested in understanding and facilitating the development of children and their families. Current work includes behavioral teratology through studies of the long term effects of prenatal drug and other toxic exposures and conditions; identifying factors that affect behavioral and physiological reactions to stress and the capacity to cope with stress; the impact of deviant caregiving and traumatic events in the child's life on the development of self-worth and other self-evaluative emotions; the study of normal cognitive, social, and emotional development, and the study of brain-behavior relations in the developing child.

One of the Institute's functions related to public/community service includes giving colloquium and grand rounds presentations at various universities and medical schools across the country. In addition, faculty serve on state, county and international committees, including the Board of the Eastern Psychological Association of the American Psychological Association as well as the International Society of Early Intervention and the school board of Montgomery Township, New Jersey. Our faculty also serve as editors on various journals which include *Current Psychiatry Reviews*, *Current Pediatric Reviews*, *Infants and Young Children*, *Open Pediatric Medicine and the Roeper Review*. They have served as reviewers for the following journals in the past year: *Archives of Pediatric and Adolescent Medicine*, *Child Development*, *Child Maltreatment*, *Cognition and Emotion*, *Cognitive Development*, *Developmental and*

Behavioral Psychology, Developmental Psychology, Developmental Psychopathology, Emotion, Infant Behavior and Pediatrics, Journal of Reproductive and Infant Psychology, NeuroImage, Psychoneuroendocrinology, and Social Development.

The Institute also provides clinical services through the Gifted Child Clinic and Neuropsychological Clinic.

The Pediatric Clinical Research Center is housed within the Child Health Institute of New Jersey (directly adjacent to the Bristol-Myers Squibb Children's Hospital) and is a fully staffed and equipped clinical research facility capable of conducting both inpatient and outpatient pediatric clinical trials. Its mission is to:

- Facilitate investigator-initiated and pharmaceutical industry-sponsored Phase I-IV clinical research efforts throughout the Pediatric Campus at UMDNJ-Robert Wood Johnson Medical School. Faculty and staff are trained and experienced in conducting clinical trials in children.
- Expand access to innovative clinical trials and novel treatments for New Jersey's children.
- Establish and support a state-of-the-art training environment for medical, nursing, and pharmacy students, residents and fellows.
- Assist investigators in acquiring and launching new studies, and provide recruitment and data collection assistance if needed.
- Assist investigators in completion of regulatory documentation, IRB submission and oversight.
- Assist investigators in developing agreements with pharmaceutical corporations, Clinical Research Organizations, and Site Management Organizations.

UMDNJ SN-STATE HOSPITAL CLINICAL AFFILIATION (SN)

The UMDNJ-School of Nursing has been involved in the state hospital clinical evaluation since December 1999. A School of Nursing faculty member and five advanced practice nurses are currently providing ongoing consultation, education and mentorship to Greystone Park Psychiatric Hospital and Ancora Psychiatric Hospital. The team's focus is on working with nursing administration and staff to continue the implementation and evaluation of the Nurse Directed Care Model in both hospitals. Further, the advanced practice nurses assigned to each hospital have been involved in daily clinical supervision in collaboration with nursing administration. Additional areas of focus are working with nursing service to integrate wellness and recovery concepts into nursing clinical practice, improving therapeutic communication and improving collaboration between the nursing staff and the treatment teams. The team has generated a scholarly publication this year entitled, Implementing the clinical nurse specialist role in the regional state psychiatric hospital, by M. Sclafani, B. Caldwell, E. Fitzgerald, & T. McQuaide, published in *Clinical Nurse Specialist*, Volume 22, Number 2, 2008, pp. 67 to 72.

THE UNIVERSITY DOCTORS COMMUNITY PROGRAMS 2007 (SOM)

The following is a listing of community lectures, programs, screenings, and health fairs facilitated by the SOM Marketing Department in which the University Doctors participated in 2007. These programs were held throughout southern New Jersey:

January

- “Start the New Year Right: Move More, Eat Better for a Healthier You”
- “Seven Healthy Steps to Keep New Year’s Resolutions”
- Community Ground Round Series: “Benefits of Diversity in the Professional Setting”

February

- Free Blood Pressure and Diabetes Screenings to Celebrate Black History Month
- “Live Healthier, Live Longer: Lowering Cholesterol for the Person with Heart Disease”
- “Doctor Patient Relationship: How to Get the Most Out of Your Doctor Visit”
- American Red Cross Blood Drive
- National Bone Marrow Program Donor Drive

March

- CARES Institute: “The Art and Science of Healing”. Third Annual Statewide Symposium at UMDNJ-SOM - Focuses on Foster Children
- National Doctors’ Day
- Mini Medical School – March through May
- NJ AHEC Community Health Workers 2nd Annual Conference
- 11th Annual UMDNJ-SOM Research Day
- SNMA Annual Fashion Show
- Cherry Hill Regional Chamber of Commerce Business Expo
- “Preventing Falls in Older Adults”
- “Bone Health: Are You at Risk for Osteoporosis?”
- “The Vagina Monologues” – Camden Women’s Shelter
- “Picture Perfect” Charity Fashion Show

April

- Atlantic Regional Osteopathic Convention
- Camden County Women’s Health Conference
- “Feeling Fat in a Thin Society: Examining Links Between Body Image, Eating Problems and Depression”
- “Who Says You’re Too Old for Sex? Maintaining Your Sexual Health as You Age”
- “Aging Well: Your Guide to a Healthy, Happy Life”
- “Healthy Body, Healthy Mind”
- “Diabetes Management Through the Lifespan”
- Legal Issues in School Nursing
- “Back Pain: Finding the Treatment That’s Right for You”
- Community Grand Round: “We Are Not There Yet”
- NJISA Brain and Memory Program, “Healthy Body, Healthy Mind”.
- “Doctor/Patient Relationship: How to Get the Most Out of Your Doctor Relationship”
- Ethics Day Program
- “A Recipe for Successful Aging”

May

- “Non-surgical Options for Back Pain Treatment”

- “Tips for a Successful Summer Diet”
- “Metabolic Syndrome and the Risk of Cardiovascular Disease in Older Adults”
- Burlington County Farm Fair

June

- Fifth Annual Senior Health and Fitness Day, “Body, Mind & Spirit”.
- “Live Long & Live Well” – Healthy Aging Tips
- “Keeping Your Brain Young”
- Health Screenings, Demonstrations, Exhibits, Lunch, Prize Drawings, Entertainment
- “Metabolic Syndrome and the Risk of Cardiovascular Disease in Older Adults”
- “Falls Prevention Lecture”
- Burlington County Office on Aging Senior Exposition.
- Kickoff Event of UMDNJ-SOM 30th Anniversary at the Camden Riversharks
- AACOM Annual Meeting, Collaboration: The Keystone to Success

July

- “Caregiving 101: Where to Start, What Questions to Ask, How to Find Help”

August

- 10th Annual UMDNJ-SOM Golf Classic
- Meet the University Doctors’ Pediatricians at the Baby Extravaganza Weekend at Babies R Us
- “Benefits of Breastfeeding”
- Rancocas Health Fair

September

- Meet the University Doctors’ Pediatricians at the Baby Extravaganza Weekend at Babies R Us
- Red Cross Blood Drive
- “Fibromyalgia: An Overview of Symptoms, Causes and Treatments”
- Grand Opening of Washington Twp Medical Office Building, Washington Twp., NJ
- Free Balance, Blood Pressure, Cholesterol, Diabetes and Varicose Vein Health Screenings
- Car Seat Safety Inspection, Print-A-Kid Program, Giveaways and Refreshments
- “Oh, My Aching Back: What’s New in the Treatment of Back Pain”
- “What’s New in Obesity Surgery”
- AOA Convention, San Diego, CA

October

- Meet the University Doctors’ Pediatricians at the Baby Extravaganza Weekend at Babies R Us
- Health Careers Fair - Stratford Campus
- “Osteoporosis: Don’t Let Age Destroy Bones”
- Camden Farmers’ Market Health Fair
- Gloucester County Women’s Health Summit

November

- “Can’t Sleep? Help for Insomnia & Sleep Disorders”
- “Colorectal Cancer: Screening for Life”
- “Pediatric Environmental Toxins”
- “A Guide to Your Child’s Nutrition: Building Healthy Eating Habits for Life”
- 8th Annual Diabetes Forum- Free Blood Pressure and Glucose Screenings, “Diabetes: New Options, Better Control”, “ Digestive Problems Related to Diabetes”
- “Should You Worry About Memory Loss?”

December

- “Memory Loss: What You Need to Know”
- “BAM!” Brain & Memory Program
- Winter Unity Celebration with Stratford Special Needs Children Gift Drive for Stratford Children by SOM Students, Faculty and Staff

VASCULAR TECHNOLOGY (SHRP)

Under the sponsorship of Saint Clare’s Health Services, faculty and students of the Vascular Technology Program participate each year in a myriad of health and wellness fairs and stroke awareness programs throughout Morris County and its surrounding area. The program’s involvement has become an integral part of the hospital’s community outreach program. By demonstrating ultrasound testing and discussing its role in vascular disease detection, faculty and students increase public awareness of ultrasound testing for vascular disease and what to expect in a hospital encounter.

VOCATIONAL TRAINING PROGRAMS (SOM)

The SOM Family Medicine Department has an affiliation agreement with both Camden County Vocational and Camden County Vocational Institutes (CCVI) to be a training site for its students who are pursuing a career as a medical assistant. The Department administrator, Pam Matukonis, sits on the advisory board of CCVI to provide guidance as to the skills needed to be a medical assistant.

VOLUNTEER OPPORTUNITIES IN COMMUNITY- ENGAGED SERVICE (SPH)

Volunteer Opportunities in Community-Engaged Service (V.O.I.C.E.S.) is a student and faculty community service organization established in 2004 at the UMDNJ-School of Public Health. It is dedicated to working together with community groups in cities across New Jersey to identify public health needs and design useful service projects to address these needs. Its mission is to provide a forum for public health students and faculty on all three SPH campuses (Newark; Piscataway/New Brunswick; Stratford/Camden) to reach out to their communities by organizing and participating in volunteer community service projects with a public health focus.

The organization allows students to gain practical public health experience, interact with other students with similar interests, and incorporate social responsibility into their academic experience. At the same time, it provides mentoring opportunities for faculty and enables students and faculty to positively impact the communities in which they live, both locally and globally.

In 2007-2008, students and faculty worked together on a number of projects including:

- Healthy Helpings Cookbook and Cookbook Launch Party—Fundraiser for Elijah's Promise Soup Kitchen
- Public Health Club at New Brunswick Health Sciences Technology High School
- Elijah's Promise Soup Kitchen
- Holiday Gift Drive with HomeFront
- Dominican Republic Giving Tree
- Guest Speaker from Doctor's Without Borders on Darfur
- Healthcare Career Exploration Fair/New Brunswick Health Sciences Technology High School

For more information on V.O.I.C.E.S., go to www.sph.umdj.edu/voices or contact Dr. Bernadette West at westbm@umdj.edu.

WOODROW WILSON AND CAMDEN HIGH SCHOOLS (SOM)

Medical students with the SOM Family Medicine Department assist in providing pre-participation sports physical examinations for all athletes. These examinations provide a valuable service while enhancing the medical students' skills at diagnosis and treatment. In addition, under the supervision of Joshua Coren, D.O., MBA, SOM residents provide medical coverage for all varsity football games.

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EXTERNAL FUNDING
Totals for Fiscal Year 2007

UNIT	TOTAL AWARDS ¹	RESEARCH AWARDS
New Jersey Medical School ²	\$90,441,667	\$71,008,473
Robert Wood Johnson Medical School-P ³	\$140,723,538	\$94,145,027
Robert Wood Johnson Medical School-C	\$1,396,846	\$1,339,863
School of Osteopathic Medicine	\$11,352,333	\$7,225,347
New Jersey Dental School	\$4,902,063	\$3,572,676
Graduate School of Biomedical Sciences ⁴	\$610,111	\$88,905
School of Health Related Professions	\$5,094,504	\$196,121
School of Nursing	\$9,746,596	\$1,614,198
School of Public Health	\$11,211,027	\$4,814,208
University Hospital	\$5,895,770	\$520,025
University Behavioral Healthcare-P	\$17,164,486	\$226,514
University Behavioral Healthcare-N	\$5,541,837	\$0
Central Administration and Physical Plant	\$917,082	\$0
University Academic Affairs (Including Continuing Education)	\$12,164,643	\$57,729
GRAND TOTAL	\$317,162,503	\$184,809,086

1 Research, educational and service awards, including indirect costs from all external sources.

2 Includes PHRI.

3 Includes Child Health Institute, CABM, EOHSI and Cancer Institute.

4 The Graduate School of Biomedical Sciences draws its faculty from that of the medical schools; grants to these faculty members are reported under the medical schools.

Source: UMDNJ-Office of Cost Analysis

ACADEMIC R&D EXPENDITURES

Totals for Fiscal Year 2007

EXPENDITURES*	AMOUNT
Total Academic R&D Expenditures	\$236,834,000
Federally Financed	\$126,101,000
Institutionally Financed	\$53,969,000

Note: Dollar amount as reported to the National Science Foundation (NSF) on Form #411
(*Survey of Research and Development Expenditures at Colleges and Universities*).
Source: UMDNJ-Office of Cost Analysis

PATENTS AND LICENSES

U.S. Patents Issued July 1, 2007 - June 25, 2008

UMDNJ United States Patents

<u>Inventor(s)</u>	<u>Patent Title</u>
Kiron M. Das	<i>Treatment of ulcerative colitis with tropomyosin isoforms and monoclonal antibodies to tropomyosin isoforms</i>
Kiron M. Das Jim Jung-Chin Lin	<i>Tropomyosin isoforms, and diagnostic and therapeutic uses therefor</i>
Jeffrey B. Kaplan	<i>Compositions and methods for enzymatic detachment of bacterial and fungal biofilms</i>
David B. Seifer David T. MacLaughlin	<i>Mullerian inhibiting substance levels and ovarian response</i>
Ira B. Black Dale L. Woodbury Darwin J. Prockop Emily Schwarz	<i>Dirrereniation of bone marrow cells into neuronal cells and uses therefor</i>
Nancy Carrasco Orsolya Dohan Uygar H. Tazebay Irene L. Wapnir	<i>Methods for the diagnosis and treatment of breast cancer</i>
Karl Drlica Jian-Ying Wang	<i>Selection of target sites for antisense attack of RNA</i>
Pranela Rameshwar Pedro Gascion	<i>Human preprotachykinin gene promoter</i>
Ira B. Black Dale Woodbury	<i>Multi-lineage directed induction of bone marrow stromal cell differentiation</i>
Leonard Sciorra Joseph Zimnoch	<i>Method and apparatus for separating biological materials and other substances</i>
David B. Seifer Robert Shelden Bo Feng Cheryl Dreyfus	<i>Method of utilizing neurotrophins to manipulate reproductive capacity</i>
Clark Gregory Hagerty Frank A. Sonnenberg David S. Pickens Casimir A. Kulikowski	<i>Conversion of text data into a hypertext markup language</i>

Inventor(s)**Patent Title**

Fred Kramer

Homogeneous multiplex screening assays and kits

Leroi F. Liu

*Cytotoxic Agents***UMDNJ Foreign Patents****Inventor(s)****Patent Title****Canadian**Masayori Inouye
Sumiko Inouye
Atsushi Ohshima*In vivo duplication of genetic elements by s1DNA*Fred Kramer
S. Tyagi
D. Alland
J. Vet
A. Piatek*Non-competitive co-amplification methods***European**Sanjay Tyagi
Fred Kramer
Paul Lizardi*Hybridization probes for nucleic acid detection, universal stems methods and kits*Masayori Inouye
Sumiko Inouye
Atsushi Ohshima*Nucleic acid Detection probes having non-fret fluorescence quenching and kits and assays including such probes*

Abraham Pinter

*HIV-1 Gp120 V1/V2 domain epitopes capable of generating neutralizing antibodies*Fred Kramer
O. Alsmadi
S. Tyagi*Oligonucleotide-facilitated coalescence***French**Sanjay Tyagi
Fred Kramer
Paul Lizardi
Herman J. Blok
Ulf D. Langegren*Sensitive nucleic acid sandwich hybridization assays and kits*Fred Kramer
O. Alsmadi
S. Tyagi*Oligonucleotide-facilitate coalescence***German**Fred Kramer
O. Alsmadi
S. Tyagi*Oligonucleotide-facilitate coalescence*

<u>Inventor(s)</u>	<u>Patent Title</u>
	Great Britain
Abraham Pinter	<i>HIV-1 GP120 V1/V2 domain epitopes capable of generating neutralizing antibodies</i>
Fred Kramer O. Alsmadi S. Tyagi	<i>Oligonucleotide-facilitate coalescence</i>
	Italian
Fred Kramer O. Alsmadi S. Tyagi	<i>Oligonucleotide-facilitate coalescence</i>
	Japanese
Q. Li G. Luan J. Liang	<i>Specific double-stranded probes for homogeneous detection of nucleic acid and their application methods</i>
Sanjay Tyagi Fred Kramer Paul Lizardi	<i>Hybridization probes for nucleic acid detection, universal stems methods and kits</i>
S. Tyagi	<i>Diagnostic assays and kits for RNA using RNA binary probes and protein that is an RNA-directed RNA ligase</i>

License and Option Agreements were executed with the following companies:

AstraZeneca, Ltd.	Immunoquest, Ltd.
Attostar LLC	IntegraGen, Inc.
Avagenex, Inc.	Merck & Co.
BioMarin Pharmaceuticals, Inc.	Pfizer, Inc.
Celgene, Inc.	Qualtex Laboratories, Inc.
CellXplore, Inc.	Schutz Engineering, Inc.
Colgate-Pomolive, Inc.	Takara Bio., Inc.
Elan Pharmaceuticals, Inc.	TriMedicine, Inc.
GenChemicals, Inc.	Virium Pharmaceuticals, Inc.

Source: UMDNJ-Office of Legal Management/Patents and Licensing.

RESEARCH HIGHLIGHTS: 2007-2008

BASIC SCIENCES

- Discovered that the helicase enzyme activity is highly sensitive to DNA stability and that the helicase enzyme used one ATP to unwind up to 4bp of DNA
- Discovered that the RNA polymerase scrunches the DNA during transcription initiation
- Identified the HMGA2 molecular pathway in pulmonary lymphangiomyomatosis
- Determined the X-ray crystal structure of NPC2 bound to cholesteryl sulfate, providing insight into sterol binding by a protein deficient in Niemann-Pick Type C disease
- Determined the crystal structure of the DNA-binding domain of *Staphylococcus aureus* AgrA, establishing a novel fold and mode of interaction with DNA for LytTR family transcription factors that regulate virulence factor expression in pathogenic bacteria
- Developed a method for quantitative analysis of labile phosphor-aspartate phosphorylation using a newly introduced Phos-Tag reagent
- Identified CAPERa as a new transcriptional coregulator for Rel/NF- κ B and revealed its potent tumor suppressor role in inhibiting cell transformation by the v-Rel oncoprotein
- Helped develop a Hidden Markov Model with position-dependent transition probabilities that accurately predicts transcription factor occupancy on self-overlapping binding motifs
- Demonstrated the effect of interruptions in the (Gly-X-Y) repeating sequence on triple-helix structure, stability and folding
- Developed a high expression system for bacterial collagen that allows it to be characterized and used for biomaterials and tissue engineering
- Designed a peptide system containing hydrophobic sequences from basement membrane collagen that would self-associate to form branching and supercoiled structures resembling those in native basement membranes
- Concluded that the helicase activity of cold-shock protein DsdA plays a pivotal role in its cold-shock function
- Determined that the cold-shock protein IF1 has RNA chaperone activity and transcription antitermination activity similar to Csp proteins and this activity is not essential for cell survival
- Determined that the RNase activity of cold-shock protein PNPase is essential for its cold shock function and can be compensated by another endoribonuclease, RNase II
- Studied various applications of the nucleic acid melting activity of CspA and its homologues and a new method was established for determining cleavage specificity of ribonucleases with the help of CspA
- Demonstrated that the computational design of D-amino acids at the ends of alpha-helices can significantly improve protein stability

- Provided conclusive proof of regulated deployment of a toxin gene for developmental programmed cell death in bacteria
- Discovered that the promoter and terminator elements of protein-encoding genes are juxtaposed to form “gene loops”
- Discovered that gene loops confer “memory” of recent transcriptional activity
- Identified a retroviral receptor used by an envelope protein derived by peptide library screening
- Discovered a role for retinoic acid-inducible G protein-coupled receptors in Wnt signal transduction
- Discovered a new mechanism for the activation of the Formin protein Daam1
- Verified experimentally Laszlo Patthy's "phase one intron" domain parsing rule as a means of prospectively identifying structural domains in extracellular human proteins
- Demonstrated efficacy of brain gene therapy in a mouse model of late infantile neuronal ceroid lipofuscinosis
- Identified and demonstrated the cellular localization of previously uncharacterized lysosomal proteins
- Determined the X-ray crystal structure and binding properties of NPC2, a cholesterol binding protein deficient in a hereditary human neurodegenerative disease
- Completed a study demonstrating that NPC1 and NPC2 proteins are not involved in intestinal cholesterol absorption
- Identified candidate disease alleles for ENGRAILED 2 genetic susceptibility to Autism Spectrum Disorder
- Demonstrated that autism associated alleles affect the regulation of ENGRAILED 2 through the differential binding of transcription factors
- Computationally designed a highly thermostable protein by introducing D-amino acids at the end of an alpha-helix
- Developed a novel electrostatics-based approach for designing heterotrimeric collagens and predicting the structure of natural collagens
- Designed a novel antibiotic peptide based on gramicidin-A
- Defined how influenza A virus suppresses a structural basis for a host antiviral response
- Demonstrated that strong carbon-donor hydrogen bonds donated by metal-bound histidines can play important roles in metalloenzyme structure and function
- Defined cis-regulatory elements controlling species-specific alternative polyadenylation of BMP2 mRNAs
- Demonstrated mechanisms of apoptosis and autophagy induction in mammalian cells by siRNA knockdown of mRNA capping enzymes

- Demonstrated a functional interaction between sleep and the immune response in *Drosophila* and that the NF κ B Relish promotes sleep
- Identified the POU domain transcription factor Brn3b as a commitment factor for retinal ganglion cells whose degeneration can lead to glaucoma
- Identified the mechanism of action of the anti-apoptotic Bcl-2 family member Bfl-1/A1, which binds and inactivates proapoptotic tBid and Bak
- Determined that the anti-apoptotic Bcl-2 family member Bfl-1 carboxyl-terminal tail domain is the source of the proapoptotic activity of the protein in permeabilizing mitochondria to release proapoptotic factors
- Found that Nbk/Bik promotes apoptosis by binding to and neutralizing anti-apoptotic Mcl-1 and Bcl-xL thereby displacing proapoptotic Bak to activate apoptosis
- Developed a novel mouse model for mammary tumorigenesis with which to study the role of apoptosis and autophagy
- Discovered that tumor cells with defects in apoptosis survive metabolic stress in vitro and in vivo through the catabolic process of autophagy
- Demonstrated for the first time that autophagy localizes to metabolically stressed, hypoxic tumor regions and that autophagy is a survival pathway enabling tumor cells to tolerate metabolic stress
- Found that p53 regulated genes that function to shut down the IGF-1/mTor pathways after stress
- Found that the decline in p53 activity as a function of life span is not observed with other signal transduction pathways and such a decline could be one of the reasons why cancers mainly arise in older animals
- Found that a single nucleotide polymorphism in the coding region of the human p53 gene has been associated with failure of implantation of embryos in humans
- Developed a novel method to determine whether or not a gene contains alleles that are under positive or negative selection in human populations
- Observed that certain alleles in the MDM-2 gene are clearly found to be under positive selection in Caucasian populations and as a confirmation of this observation other allele in the MDM-X gene and the Hausp gene, both of which produce proteins that form a multimeric complex with the MDM-2 protein, are also shown to be under positive selection in the population
- Found that if the alleles under positive selection either compensate for the proline to arginine change in the p53 protein that occurred in Caucasian populations and /or the fact that p53 is required for reproduction in females and its activity is therefore under tight positive selection
- Found that BCCIP is required for the transactivation function of p53 and for completion of cytokinesis

- Discovered that the Top3-Rmi1 protein had enhanced relaxation activity on Form I DNA which is likely due to the increase in ssDNA binding activity observed in this complex, relative to the individual subunits and the OB-fold in yeast Rmi1
- Identified soluble factors produced by tumor cells that induce MSC chemotaxis and started experiments that better define the phenotype of MSCs within the tumor microenvironment
- Studied the distant effects of UVB on antioxidant expression in undifferentiated and differentiated mouse keratinocytes
- Determined if the sensitivity of keratinocytes to UVB-induced oxidative stress is dependent on their differentiation state and alterations in antioxidants are likely to be important mechanisms for protecting the skin from UVB-induced oxidative stress
- Showed that competitive binding of AUF1 and TIAR to MYC mRNA controls its translation
- Identified MYC proto-oncogene mRNA as a cellular AUF1 target
- Revealed, through genetic experiments, that AUF1 and TIAR control proliferation by a MYC-dependent pathway
- Identified a number of genes that control how apoptosis is involved in cellular homeostasis during development, immune responses, and tumorigenesis
- Reported on the role that IL6 plays in inhibiting lymphocyte apoptosis by mesenchymal stem cells and the role of apoptosis signaling pathways in lymphocyte homeostasis
- Showed that the introduction of DNA supercoiling increased the efficiency of enhancer directed transcription by almost two orders of magnitude, thus explaining the efficiency of enhancer activity even at large distances such as seen in some human cancer-associated translocations
- Demonstrated DNA looping involving the 5' and 3' ends of genes is much more common than previously realized and that TFIIIB, a transcription factor critical for transcriptional initiation, also binds to the distal ends of genes, cross-linking the promoter and terminator regions to form a DNA loop encompassing the transcribed sequences
- Examined the SirT1 and SirT3 enzymatic modifiers of chromatin
- Showed that SUV39H1, a histone methyltransferase critical for gene silencing through formation of facultative heterochromatin, is regulated by acetylation and deacetylation mediated by the SirT1 histone deacetylases
- Found that deacetylation of SUV39H1 leads to its increased levels and activity with increased histone H3K9 trimethylation, a mark associated with transcriptional repression
- Found that this enzyme localizes to both the nucleus and mitochondria under normal growth conditions, however is transported from the nucleus to the mitochondria under conditions of cellular stress, such as DNA damage
- Showed that mutations in the PR-SET7 histone methyltransferase, which is critical for histone H4 lysine 20 monomethylation, lead to a DNA damage checkpoint response

- Found significant levels of free mono-, di-, and trimethylated H4K20 in cells, suggesting that there is a pool of pre-modified histone proteins that may be rapidly incorporated into nucleosomes at particular stages of the cell cycle or of development to ensure proper chromatin configuration at that time
- Identified the specific transcriptional regulator, YY1, as an essential switch regulating induction of differentiation in the oligodendrocyte precursor cells
- Showed that silent chromatin at the HMR mating type locus of yeast is required but not sufficient for cohesion of sister chromatids, but also requires a tRNA gene with associated RNA polymerase III components providing an unexpected link to gene expression regulating proteins
- Showed that specific cofactor interactions, not differences in enzymatic activity, were responsible for whether a particular HDAC repressed expression at a specific set of genes scattered in different chromosomal locations or whether it mediated repression over a large chromosomal domain
- Confirmed the association of abnormalities of Xi in basal-like breast cancers and the possible role that BRCA1 plays in Xi
- Observed that chronic exposure of the mice to low levels of testosterone (as compared with normal levels), resulted in marked acceleration of prostate cancer development and that the tumors that developed had an initial androgen-independent pattern of gene expression
- Showed in molecular studies of prostate cancer in the Nkx3.1/Pten knock-out mice that the development of androgen-independence is caused by increased Akt and Erk activation, making cells resistant to inhibitory effects mediated by the stroma
- Identified a site in the far upstream region of the p21 promoter to which Gax was shown to bind by chromatin immunoprecipitation
- Showed that miR-130A is able to repress expression of Gax, thus acting as a proangiogenic factor
- Investigated the expression of HMGA2 in pulmonary lymphangiomyomatosis (LAM) a benign proliferative lesion of pulmonary smooth muscle cells leading to obstruction of airways and vessels in the lung
- Found HMGA2 was markedly over-expressed in this disorder and may represent a potential therapeutic target for this life-threatening benign neoplastic disease
- Showed that SMAD3, a key mediator of the TGF β anti-proliferative response is phosphorylated by CDK4 and CDK2, which inhibits SMAD-mediated transcriptional activation and TGF-induced growth inhibition
- Defined critical regulatory domains of ANCO-1, an ankyrin repeat containing coactivator molecule that interacts with the p160 common coactivator, including both activation and repression domains and has shown that ANCO-1 functions as a corepressor for the progesterone receptor
- Showed that knockdown of two key Mediator components decreased both androgen-dependent and –independent proliferation of prostate cancer cells and increased apoptosis

- Showed that ataxin-1 interacts with HDAC4 in order to repress gene expression
- Showed important interactions of this pathway with the Wnt signaling pathway, at the level of transcription factor interactions at specific target promoters that help to define the specific responses of CNS genes to hedgehog signaling
- Defined the roles of the different Cip/Kip cyclin dependent kinase inhibitors in the regulation of neuronal cell cycle exit and differentiation during spinal cord development
- Demonstrated a role for the CtBP1 transcriptional regulator in activation of the MDR1 promoter
- Discovered a novel mechanism by which caffeine regulates alternative splicing of many oncogenic and tumor suppressor genes
- Demonstrated regulated alternative splicing of the KLF6 tumor suppressor gene and the role of the SC35 splicing factor in generating the alternative splice
- Found that Rel proteins with either too much or too little transactivation potential fail to transform and the transactivation potential of particular transforming and non-transforming mutants varied for different target genes
- Observed that lymphoma and myeloma-associated, truncated forms of NF- κ B2 are constitutively processed to the mature p52 NF- κ B2 proteins in association with DNA binding in the nucleus
- Showed that geldanamycin inhibition of hsp90 in HTLV-1 transformed malignant T-cells leads to autophagic degradation of IKK as well as of the NIK kinase and to apoptotic death of the malignant cells
- Discovered PDCD2, a highly conserved gene, that leads to a hematologic malignancy in *Drosophila*
- Showed in *C. elegans* that knockdown of the autophagy genes, atg-7 and atg-12, results in a decrease in the lifespan of both wild type and daf-2 mutant worms, providing strong support for a role of autophagy in ageing regulation
- Showed that inhibition of the TOR pathway by starvation or rapamycin causes condensin loading to the rDNA array, leading to compaction of this chromosomal region and nucleolar contraction
- Found that both RNA and DNA G-quadruplexes were shown to induce apoptosis of tumor cells in vitro
- Found that macrocyclic hexaoxazoles that stabilize G-quadruplexes were synthesized and shown to be cytotoxic towards cancer cell lines in the low micromolar range and showed that these compounds bind G-quadruplexes through a capping mechanism
- Demonstrated that Top2 β is responsible for doxorubicin-induced DNA damage in cardiomyocytes
- Found that dexrazoxane antagonizes doxorubicin-induced DNA damage through its interference with Top2 β

- Found that BCCIP fragments that interact with BRCA2 or with p21 each inhibit DSB repair by HR and furthermore, transient down-regulation of BCCIP in human cells does not affect non-specific integration of transfected DNA, but significantly inhibits homology-directed gene targeting
- Found that the MAPK/extracellular signal regulated kinase (ERK) pathway specifically represses IGFBP-5 expression in MEC and the corresponding changes in apoptosis and IGFBP-5 expression support a role for this specific IGFBP in mammary gland involution
- Showed that the suppression of vimentin expression by ras, and the relief of this suppression by TGFbeta, occurs in a promoter-independent fashion, possibly through sequences in the first or second intron
- Found that GAX activates p21(WAF1/CIP1) through multiple upstream AT-rich sequences
- Demonstrated that IGFBP-5, although not essential for normal growth, is required for normal mammary gland involution and can regulate mammary gland morphogenesis in response to hormone stimulation
- Showed that MED1/TRAP220 is overexpressed in both AR-positive and -negative prostate cancer cells lines, as well as in 50% of the clinically localized human prostate cancers examined, thus suggesting that MED1/TRAP220 hyperactivity may have implications in prostate oncogenesis
- Developed libraries of feline leukemia virus subgroup A (FeLV-A)-derived envelope (Env) proteins with random peptides incorporated into the cell-targeting region for specific delivery into prostate cancer
- Illustrated that the ectopic expression of metabotropic glutamate receptor 1 (Gm1), a member of the G-protein-coupled-seven-transmembrane-domain-receptor family, was sufficient in inducing melanoma development in vivo
- Concluded that curcumin inhibits NF-kappaB activity and selectively induces apoptosis of melanoma cells but not normal melanocytes
- Discovered that Gemini Vitamin D3 activates bone morphogenetic protein signaling and the action is mediated by Ras/protein kinase C α
- Developed a new mouse model for studying breast cancer progression and the role of two important cellular functions in this process, namely apoptosis and autophagy
- Discovered that cancer cells that cannot undergo regular cell death survive under conditions of nutrient and oxygen limitation by activating the evolutionarily conserved process of autophagy
- Found a mi-24RNA binding site polymorphism in the dihydrofolate reductase gene that leads to methotrexate resistance which has lead to a new field of Pharmacogenomics of microRNA
- Developed a novel method to investigate haplotype structure of the MDM-2 gene which would determine whether or not a gene contains alleles that are under positive or negative selection in human populations
- Discovered that phosphorylation of CD44 influences cancer cell's drug resistance

- Determined the role of CD44 in MMP –9 over expression
- Developed the first mathematical modeling framework that actually begins to determine the route of exposure to an environmental toxicant from the levels of the toxicant found in biological samples, e.g. blood and urine
- Determined the parameters necessary to more accurately define the number of doses necessary for communities to have available in the event of an anthrax attack based upon realistic activities and behaviors among the general population
- Started a detailed assessment of the impact of pesticide use in commercial aircraft on both passengers and crew
- Determined that in order to reduce the levels of toxic air pollutant exposure to the population of the community of Waterfront South in Camden vigorous efforts must be made to control diesel truck emission and reduce the levels of solvents
- Completed the sampling of 100 homes in Jersey City, NJ, and compiled the first set of data ever taken to assess residential exposure to hexavalent chromium that is found at chromium waste sites distributed throughout the community
- Initiated the use of a robotic sampling, programmed to simulate typical children's activities on rugs and other flat surfaces, to mimic the exposure of children to toxicants present in house dust and on open fields
- Established that developmental paraquat and maneb exposure produces progressive neurodegeneration of dopamine neurons
- Identified a mixed tocopherol (gamma enriched) diet that protects against 1-methyl-4-phenyl-1,2,5,6-tetrahydropyridine (MPTP) and paraquat+maneb neurotoxicity
- Found that non-hormonal analogs of estrogen are better neuroprotectants that estrogen against paraquat+maneb neurotoxicity
- Demonstrated that prolonged paraquat persists in the mouse brain following developmental exposure to the toxicant, a key factor in progressive neurodegeneration
- Developed a new animal model of attention deficit hyperactivity disorder (ADHD) based on developmental pesticide exposure
- Demonstrated that elevated pesticide levels in serum are associated with diagnosis of Parkinson's disease
- Identified that developmental exposure to pyrethroid pesticides increases the risk of attention deficit hyperactivity disorder
- Demonstrated that developmental exposure of rats to pesticides increases the neurotoxicity of methamphetamine
- Determined that chemical vesicating agents disrupt redox balance in target cells by modifying and inhibiting thioredoxin reductase
- Identified prostaglandin synthases and prostaglandin receptors as targets of ultraviolet light in skin cells

- Identified increased oxidative stress and antioxidant expression in skin derived keratinocytes following exposure to paraquat, a widely used herbicide
- Demonstrated that chemical vesicants target the leukotriene biosynthetic pathway to induce toxicity in the skin
- Determined that enhanced metabolic inactivation of endogenous estrogens by hepatic estrogen-metabolizing enzymes after dioxin treatment contributes to the reduced incidence of estrogen-associated tumors
- Determined that polyamine analogs that can be used in cancer chemotherapy bind human serum albumin
- Discovered a novel mechanism for antiestrogen resistance of breast cancer involving an interaction between Beclin 1, an important mediator of autophagy and estrogen receptor alpha
- Determined that polyamines are important in the autophagy process and that Beclin 1 overexpressing breast cancer cells are more sensitive to polyamine analogues compared to the untransfected control cells
- Determined that polyamine analogues and the antiestrogen raloxifene have synergistic anti-proliferative and apoptotic effects on breast cancer
- Performed an exploratory epidemiologic study of possible environmental risk factors of autism in New Jersey
- Developed a public health tracking system for regional, multi-institutional academic use
- Explored the mental health outcomes in a World Trade Center cohort of New York City Firefighters
- Performed a study of the possible association between estimated World Trade Center plume intensity and respiratory symptoms among the residents outside of Lower Manhattan
- Explored the mortality of aircraft maintenance workers exposed to trichloroethylene and other hydrocarbons and chemicals
- Demonstrated the pulmonary effects of a model of indoor air pollution in a rodent model
- Demonstrated in a mouse model that ozone exposure potentiates diesel-exhaust induced amphiregulin expression
- Characterized zinc dynamics and preservation of protein kinase C isoforms in the myocardial redox signaling network
- Developed a yeast strain with resistance to selenium toxicity
- Determined mutations in the actin cytoskeleton are genetically linked with protein synthesis
- Demonstrated that a novel non-hormonal male contraceptive drug that binds a translation elongation factor affects actin associated functions of the protein target
- Determined a G-protein and guanine nucleotide exchange binding reaction is related to a secondary function of the exchange factor to modulate a second function of the G proteins

- Determined loss of a translation elongation factor results in altered expression of stress response proteins
- Determined loss of a translation elongation factor alter protein metabolism
- Used bioinformatic approaches to develop compounds inhibiting the formation of pathological amyloid forms of proteins
- Discovered a novel protein domain that is required for selenocysteine utilization
- Discovered a novel regulatory mechanism for the production of Selenoprotein P, the selenium transport protein
- Established the use of *Drosophila* as an in vivo model for SBP2-dependent selenocysteine incorporation
- Discovered that there are two qualitatively distinct populations of cells latently infected with HIV-1, one which is transcriptionally inactive while the other expresses antisense viral RNA. Experiments suggest that the latent virus reservoir expressing antisense RNA is more difficult to activate, which has implications for therapies being developed to clear the virus from infected individuals
- Identified novel activators of latent HIV-1 after carrying out high-throughput chemical screening, At least two of the compounds activate latent virus via novel pathways. Identification of these new activators should help in further drug development to purge patients of HIV-1 infection
- Discovered that SAHA, an FDA approved anticancer agent and a histone deacetylase, can also activate latent virus at an approximately 1000-fold lower concentration than valproic acid which is currently being tested in clinical trials to eradicate HIV-1 from infected patients. This suggests that SAHA should be evaluated for a novel clinical use
- Discovered that the Doc bacterial toxin acts in a manner similar to colicin E3
- Demonstrated that all TA system toxins cause bacterial persistence
- Isolated and characterized a new bacterial toxin in *Clostridium difficile*
- Solved the x-ray crystal structure of the HipBA TA system
- Used a cell-free system that makes two Sindbis virus positive-strand RNA molecules, one under the control of the genomic (G) promoter, and the other under the control of the subgenomic (SG) promoter.
- Identified previously two arginine residues (at positions 331 and 332) in the Sindbis virus protein, nsP4, the viral RNA-dependent RNA polymerase (RDRP) that are essential for the synthesis of the SG RNA, but not for the synthesis of G RNA. Now have identified three arginine residues in nsP4 (at positions 545, 546, and 547) that are required for the synthesis of G RNA but not for the synthesis of SG RNA. This further supports our earlier hypothesis that there are different sites on the viral RDRP for the recognition of the SG and G promoters
- Carried out studies showing how the synthesis of G and SG RNA is influenced by the concentrations of ATP, UTP and CTP

- Demonstrated the immunosuppressive effect of mesenchymal stem cells
- Revealed the importance of inflammatory cytokines in priming mesenchymal stem cells to suppress immune reactions
- Identified the critical role of the concerted action of nitric oxide and chemokines in mesenchymal stem cell mediated immunosuppression
- Found the effect of chloramphenicol in transforming activated T cells
- Discovered the role of Fas-FasL in activation-induced apoptosis in Th17 cells
- Established the role of interferon-gamma-induced nitric oxide production in apoptotic cell-induced immune tolerance
- Developed high-throughput gene expression profiling system of very high sensitivity
- Discovered the mechanisms of JAK kinases, STAT proteins and receptors in defining the interferon-gamma complex via fluorescence resonance energy transfer
- Discovered novel protein arginine methyltransferases that are necessary for the development and life of mammals
- Determined the effects of interferon alphas in treating infections of Human Papilloma Virus
- Discovery of a large number of on new interferon alpha proteins in mammals
- Elucidated a mechanism by which an AUF1 (AU-rich element RNA-binding protein 1) isoform controls regulation of anti-inflammatory IL10 expression in monocytes
- Showed that the neuropeptide VGF enhances neurogenesis in vivo
- Demonstrated a downregulation of the neuropeptide VGF in human bipolar disorder
- Discovered a novel role for the neuropeptide Orphanin FQ/nociceptin in inhibiting dendritic maturation
- Continued to characterize the process of oligodendrocyte differentiation and myelin gene expression
- Shown that myelination results from stage-specific combinatorial codes of transcription factors, whose equilibrium determines the levels of myelin gene products
- Defined that changes of chromatin components serve the purpose of establishing a "molecular memory" from neural stem cells which is stored in the nucleus of the oligodendrocyte lineage cells
- Detected a progressive decline of the "epigenetic memory" of the differentiated state during aging and continued to explore the underlying mechanisms responsible for this decline
- Studied spinal cord injury in p27Kip1, p75NTR and YY1 knockout mice
- Examined genetic factors that might contribute to remyelination following spinal cord injury

- Developed behavioral analysis scale for studying spinal cord injury in mice
- Localized Na⁺/H⁺ exchanger molecules in the basal ganglia of mice which may play important roles in Parkinson's Disease
- Designed a new method to investigate how cyclin-dependent kinase inhibitor, p57, regulates proliferation in the developing brain
- Discovered that methyl mercury exposure of the newborn brain inhibits cell proliferation and induces neuronal cell death in the hippocampus, leading to deficits in learning and memory
- Demonstrated that the PACAP receptor, PAC1, is required for normal survival of cerebellar granule neurons during development
- Discovered that the autism associated gene, ENGRAILED 2, controls cell cycle exit and neuronal differentiation in the postnatal cerebellum
- Demonstrated that cyclin-dependent kinase inhibitors regulate cell cycle exit, cell fate and neurite outgrowth during cerebral cortical development
- Identified BDNF as a molecule that may reverse the deficits of myelin formation in a model of Alzheimer's disease
- Discovered roles of oligodendrocytes as providers of trophic factors in response to neural stimulation
- Showed the sequence specificity for the binding of tropomyosin to two independent tropomodulin binding sites and that tropomodulin/tropomyosin interactions are isoform specific
- Showed that different tropomyosin isoforms have different abilities to cap the pointed, slow growing end of the actin filament in the presence of tropomodulin
- Showed that intrinsically disordered regions of tropomodulin become ordered upon binding tropomyosin
- Showed that the two binding sites of tropomodulin bind to different regions of tropomyosin
- Demonstrated that the proposed quasi-equivalent binding sites in tropomyosin for actin are functionally quasi-equivalent
- Showed that specific surface residues and the instability of the coiled coil interface determine the functionality of a quasi-equivalent binding site and that quasi-equivalent binding sites also have specific regulatory functions
- Showed that tropomyosin can serve to activate formin, a regulator of the fast-growing end of actin filaments, in an isoform-specific manner and that formin binds directly to tropomyosin. Moreover, while tropomyosins regulate formins, they have no effect on CapZ proteins; proposed a model to illustrate the structural basis for the difference
- Demonstrated that formin binds directly to tropomyosin
- Demonstrated that actin polymerization-based mechanisms are involved in the response of astrocytes to wounding
- Demonstrated that tropomodulin/tropomyosin interactions are isoform specific

- Showed that kinase domain of TRPM7 phosphorylates tropomodulin in multiple sites, both serine and threonine
- Determined dissociation constants for binding leiomodoin to muscle and non-muscle tropomyosin isoforms
- Discovered that the Prox1 transcription factor plays a critical role in differentiating spinal cord interneurons
- Discovered that Cip/Kip cell cycle regulators are dispensable for neuronal cell cycle exit
- Discovered that Tcf proteins regulate Sonic Hedgehog target gene expression during CNS development
- Demonstrated that autism associated alleles affect the regulation of ENGRAILED 2 through the differential binding of transcription factors
- Discovered that the cell primary cilium regulates the variability of gene expression levels
- Discovered that the variability of gene expression levels is influenced by the tidal force cycle
- Demonstrated that distance learning technologies can be used to assist students in the gross anatomy dissection laboratory
- Demonstrated that morphological differences in the mouse brain can be mapped to genes
- Documented how exposure to radiation in utero from Chernobyl could produce cognitive deficits in young adults many years later
- Discovered how positional information in the developing neocortex could be produced by an interaction of transcription factor and cell cycle length gradients
- Documented how the neuron number adult human neocortex is stable from birth through adulthood
- Demonstrated how gene networks contribute to the development of the neocortex
- Determined how genetic control of neurogenesis in the dentate gyrus and rostral migratory stream can vary and be controlled by different sets of genes
- Discovered that opioid receptor mutations alter analgesia in a mouse strain-specific manner
- Discovered that the hallucinogen Salvinorin A works through the kappa opioid receptor
- Discovered that one of the insulin-like growth factor binding proteins, IGFBP-4, inhibits rather than stimulates growth in mice
- Demonstrated a role for Plasmacytoid Dendritic Cells in the pathogenesis of Multiple Sclerosis
- Demonstrated the efficacy of Interferon-beta transduced stem cell based therapy in an animal model of Multiple Sclerosis
- Identified surrogate markers for treatment response in Multiple Sclerosis

- Demonstrated that the BDNF gene can confer protection in autoimmune demyelination
- Developed a convenient clinical rating scale for progressive supranuclear palsy. This has since become the standard rating scale for PSP nationally and internationally.
- As a member of three separate, multi-institutional, international collaborations in the parkinsonian disorders, demonstrated that:
 - The tau (MAPT) region of chromosome 17 confers risk for Parkinson's disease
 - Quality of life in patients with Parkinson's disease depends as much on cognitive and affective difficulties as on motor deficits
 - Genetic risk for progressive supranuclear palsy, a sporadic disorder, includes a contribution from a region on chromosome 11
- Found two genes that act in mothers of autism cases during pregnancy to eliminate oxidative stress products and to contribute to the autism phenotype in their affected children
- Studied mechanisms of genes acting in mothers during pregnancy to contribute to the phenotype of neurodevelopmental disorders in their offspring
- Published study showing that glutathione S-transferase polymorphisms contribute to onset age in γ -synuclein A53T mutant Parkinson's disease (the Contursi kindred)
- Discovered that DJ-1, which causes recessively inherited Parkinson disease, has enhanced cytoprotective activity when localized in mitochondria
- Demonstrated that DJ-1 protects against oxidative damage by regulating the interaction between thioredoxin and Apoptosis Signal-Regulating Kinase 1
- Discovered that deleting Apoptosis Signal-Regulating Kinase 1 protects DJ-1 null mice against the dopaminergic neurotoxin MPTP
- Discovered that an FDA-approved antiepileptic drug provides neuroprotection in an animal model of Parkinson's disease
- Discovered that a sodium hydrogen exchanger contributes to storage of dopamine in synaptic vesicles
- Elucidated the mechanism of increased thiol modification by glutathione with ascorbate during oxidative stress
- Characterized the inhibitory effect of oxidized dopamine and dopac on mitochondrial electron transport chain activities
- Showed that mancozeb, a potential environmental toxin with relevance to Parkinson's disease can be taken up by neuronal cells
- Characterized the regional distribution of glutaredoxin-1 activity in brain showing that it is lowest in the striatum
- Demonstrated 2 peaks of glutaredoxin-1 activity with developmental age; one in the first week post-natally and again in aging rats

- Demonstrated the extracellular metabolism of glutathione and utilization of its products for the repletion of intracellular glutathione in neuronal cells
- Characterized the uptake of the pesticide paraquat in mesencephalic cultures
- Demonstrated the utilization of the dipeptides γ -glutamylcysteine and cysteinylglycine for the efficient repletion of intracellular glutathione when depleted
- Demonstrated neuroprotection from damage due to oxidative stress by the glutathione precursor dipeptides, γ -glutamylcysteine and cysteinylglycine
- Reported that collagen fibril structure is altered in the umbilical arteries of growth restricted fetuses using electronmicroscopy
- Discovered that phosphorylation of CD44 influences cancer cell's drug resistance
- Determined the role of CD44 in MMP-9 over expression
- Purchased a IBM 96 node Linux Cluster and used it to improve models of the glycoprotein hormone receptors and receptor analogs
- Prepared, expressed, and characterized more than one hundred analogs of the glycoprotein hormones and their receptors
- Tested models of the interaction of choriogonadotropin with the lutropin receptor
- Developed methods for expressing teleost follitropin analogs, the most difficult gonadotropins to produce
- Demonstrated that Slit and Roundabout are required to prevent E-Cadherin mediated cell adhesion during Drosophila heart tube lumen formation
- Demonstrated that the cytokinesis gene RacGap50C plays a previously uncharacterized role in myotube guidance
- Discovered that Slit and Robo receptors are important for regulating microvilli formation during development of the Drosophila large intestine
- Discovered evidence to distinguish separate roles for the yeast SM protein, Sec1p, in the plasma-membrane fusion of two distinct pools of secretory vesicles
- Showed that rare cases similar to Rasmussen encephalitis might result from multiple types of autoimmune reactivity, and by implication these mechanisms might underlie Rasmussen encephalitis as well
- Prolonged toxicokinetics and toxicodynamics of paraquat in mouse brain
- Established that results obtained from proposed CDC rapid HIV testing algorithms accurately match a clients' true HIV status
- First use of an on-site rapid HIV verification procedure to link HIV+ clients directly to healthcare at the time of initial testing

- Developed a new approach to discordant HIV resolution which substantially reduced the time to resolve a discordant result
- Determined that the vast majority of discordant HIV results in rapid HIV testing in NJ are associated with EIA non-reactivity and negative Western blots
- Expanded rapid HIV testing in New Jersey from the Division of HIV/AIDS to include clients from the Division of Addiction Services
- Discovered a new genetic pathway that activates actin nucleation in *C. elegans* neurons
- Demonstrated that the WAVE/SCAR actin nucleation complex is required to for axonal guidance
- Showed that myosin motor domain folding by Hsp90 is activated by a co-chaperone, Unc45a
- Discovered that Unc45b exists as a complex with Hsp90 in the muscle cytosol
- Identified key differences in activity of the between the general Hsp90 co-chaperone Unc45a, and the muscle specific isoform Unc45b
- Evaluated methods for detecting inducible clindamycin resistance in staphylococci
- Evaluated blood cultures drawn from intravascular catheters and found no advantage to discarding the initial aliquot of blood. Implementation of new procedures can reduce nosocomial anemia
- Reported/reviewed guidelines for interpretation of positive blood cultures
- Examined the natural history of HIV infection in patients over the age of 50
- Evaluated the microbiology, epidemiology, and outcome of bloodstream infections in adults
- Examined the clinical importance of polymicrobial bloodstream infections in adults
- Evaluated the optimal number of blood samples for detection of bloodstream infections in adults
- Assessed treatment of bacteremia caused by multi-drug resistant gram-negative bacteria
- Evaluated the BD Phoenix Automated Microbiology System and MicroScan Walkaway system for antimicrobial susceptibility testing of staphylococci and enterococci
- Examined the evolution of antimicrobial susceptibility in methicillin-susceptible and methicillin-resistant *S. aureus* bloodstream isolates
- Studied risk factors for microbiologic data influencing treatment of fungemia
- Received competitive extramural funding from NIH to develop a high-throughput system for analyzing immunostained cancer tissues using super computers and pattern recognition
- Collaborated with scientists from IBM's T.J. Watson Research Center to develop a decision support system for detecting and tracking liver tumors across consecutive radiology studies

- Selected by American Association for Cancer Research (AACR) society for recognition in national campaign to highlight breakthrough cancer research to congressional leaders
- Received approval for funding for a new project to investigate the angiogenic response to selective internal radiation therapy
- Presented results on medical imaging research at five high-profile international conferences
- Found that prenatal cocaine exposure predicted lower IQ scores across ages 4, 6, and 9 years, but only for boys. Also found that cocaine exposed boys had lower scores on Abstract/Visual Reasoning, Short-term Memory, and Verbal Reasoning skills across this age range
- Found that boys who were prenatally exposed to cocaine, especially if from a high risk environment, reported engaging in more high risk behavior at 10 years. Cocaine exposed boys, but not girls, were most likely to report substance use, aggression, and a disregard for safety precautions
- Found a direct relation between prenatal exposure to cocaine, especially in boys, and problems of attention, memory, and inhibitory control
- Found that high-risk boys exposed prenatally to cocaine make more omission and commission errors than do unexposed boys while controlling for IQ
- Found using functional magnetic resonance imaging gender differences in brain regions active during attention and inhibitory tasks at ages 10 to 12 years
- Found using functional magnetic resonance imaging that preadolescent children exposed prenatally to cocaine show less activation of brain regions than unexposed children during an attention task
- Found using structural magnetic resonance imaging and behavioral testing that the emergence of self representation in infants and young children was associated with maturation of white matter of left temporal cortex
- Found using structural magnetic resonance imaging that children with autism spectrum disorder at age 5 years have altered cortical maturation that is associated with delays in the development of self representation
- Found that both neglect and harsh, punitive parenting interfere with the development of emotion knowledge in pre-school children
- Found that the frequency of bedwetting reported by children is related to their general anxiety
- Found that mothers' negative response to their children's enuresis (shame, intolerance, and attributions) is related to their children's self-blame and shame about their enuresis
- Found that children's shame about their nighttime enuresis is related to their general anxiety
- Found that parental punitiveness and parental neglect affects children's emotional knowledge, independent of their IQ. More punitive parenting leads to poorer overall

recognition, discrimination, and understanding of basic emotion expressions in context such as happiness, anger, sadness, and fear in preschool aged children

- Found that anger and sad responses of 6-month-old infants remain stable when exposure to a mildly frustrating goal-blockage is repeated
- Found that with respect to infant emotional response to different goal blockages, greater sadness was related to higher internalizing behavior by maternal report at age 3, whereas anger was not
- Found that individual differences in anger and sad expressions occur when infants' goals are blocked at 5 months and that sad and blended expressions, but not anger, are related to differences in temperament, specifically soothability and distress to limits
- Found that neglected children's cortisol reactivity varies as a function of the number of neglectful incidents reported to child protective services
- Found that neglected children show differences in total immune, strep specific IgA and herpes simplex IgA as a function of individual differences in cortisol reactivity
- Found that shame mediates the relation between physical abuse and internalizing (e.g., anxiety and depression) symptoms among 7-year olds. Children who are physically abused and who exhibit shame are more likely to have internalizing symptoms as rated by their teacher
- Found that pre-vaccination cortisol levels are higher when 4-year-old children arrive at the doctors' office than at the same time of day at home, suggesting the occurrence of an anticipatory cortisol response to the impending stress
- Found that in first-grade children of depressed mothers, the risk for psychopathology was lower if they had insecure rather than secure attachments with their depressed mother
- Found that shame mediates the relation between parental abuse and nonviolent delinquency (i.e., vandalism or theft) in a sample of juvenile offenders
- Found that attributions of blaming others or avoiding blame mediates the relation between parental abuse and violent delinquency (i.e., assault or rape) in the same juvenile offender sample
- Found that aggression mediates the relation between substance abuse, parental abuse and successful completion of a residential academic and vocational training program for at-risk youths
- Found that 60% of low-income fathers in a national urban birth cohort study had no health insurance
- Found that diagnosed mental illness before their child is born is a barrier to marriage among unwed mothers
- Reviewed what is known about the effects of child disability on the family, providing an overview of the complex needs of and multitude of resources available to families of disabled children and concluding with suggestions for practice, research, and public policy
- Found that maternal pre-pregnancy obesity is associated with diagnosis of asthma in offspring at age 3 years

- Found a much smaller racial disparity in low birth weight among unmarried mothers—an economically disadvantaged population—than in the general population
- Found that racial and ethnic disparities in low birth weight are as large in England as in the U.S. and that socioeconomic status and behaviors explain little of the variation across racial/ethnic groups in either country
- Found that underreporting of many birth certificate data elements varies by maternal characteristics and birth outcomes
- Generated a novel reagent for studying protein secretion in pathogenic bacteria
- Demonstrated that hypoxia inducible factor-1 improved the response on myocytes subject to simulated ischemia-reperfusion to natriuretic peptides and nitric oxide
- Showed that the effects of GABA inhibitory system were reduced in an animal model of autism
- Proved that erythropoietin protected the blood brain barrier during focal cerebral ischemia
- Demonstrated that hypoxia inducible factor-1 protected the blood brain barrier during focal cerebral ischemia
- Showed that chronic nitrates blunted the response of cardiac myocytes to both nitric oxide and natriuretic peptides
- Discovered that Atrophin family proteins form protein complexes with histone deacetylase1/2 and function as nuclear receptor corepressors
- Discovered that mTORC2 controls folding and stability of Akt and conventional PKC by constitutive phosphorylation
- Determined that mTORC2 is present in polyribosomes
- Showed that the function of TORC2 in folding and stability is conserved in yeast and mammals
- Discovered that JNK1 and JNK2 have shared and independent roles in regulating lipolysis products, glycerol and non-esterified fatty acid (NEFA)
- Discovered that JNK1 and JNK2 control gene expression of proteins involved in NEFA, triglyceride and glucose transport and metabolism
- Identified the mechanisms by which JNK1 and JNK2 mediate NEFA-induced insulin resistance
- Showed that presenting emotionally charged stimuli at 0.1 Hz produces maximal increases in heart rate variability, that sensitively discriminates affective charge and drug states (alcohol vs placebo)
- Showed that 0.1 Hz rhythmical muscle tension produces a resonance effect on blood pressure, heart rate, and pulse transit time. This resonance effect is mediated by the baroreflex, and occurs despite partial suppression of the baroreflex by exercise

- Showed in a preliminary study that physiological measures add predictive power to self-report indices of flight-task difficulty among airplane pilots
- Showed that heart rate variability biofeedback can significantly dampen the autonomic and symptom effects caused by experimental exposure to inflammatory cytokines
- Presented Plaque Morphology in High versus Low Shear Stress Regions of Human Carotid Stenosis at the American Society of Investigative Pathology, Washington, DC
- Presented Non-rigid Registration of the Liver in Consecutive CT Studies for Assessment of Tumor Response to Radiofrequency Ablation at the 29th International Conference of the IEEE Engineering in Medicine and Biology Society in Lyon, France
- Published article on the Paradoxical Flow hypothesis of the Carotid Artery: Supporting Evidence from Phase-Contrast Magnetic Resonance Imaging
- Submitted article on Subtraction Computed Tomographic Angiography of Calcified Arteries: Preliminary Phantom and Clinical Studies
- Submitted article on A Saturating Resistive-Network Model for Image Segmentation
- Published book chapter on The Pressure Gradient at Arterial Stenoses; Towards a Non-invasive Measurement
- Submitted abstract to 2008 Annual Meeting of Biomedical Engineering Society on Material Decomposition of Dual-Energy Computed Tomographic Angiography Using Blind Source Separation
- Presented abstract to 2008 Annual Meeting of Radiological Society of North America on Dual-Energy Subtraction Computed Tomographic Angiography in Calcified Arteries; a Feasibility Study
- Submitted for publication article on 3-D Morphometry and Non-Rigid Registration for Quantitative Analysis and Clinical Assessment in Radiology
- Demonstrated that HuR binds to the estrogen receptor mRNA and is involved in increasing its stability
- Showed that the DNA methyltransferase and histone deacetylase inhibitors decrease ER mRNA stability by decreasing the cytoplasmic levels of HuR
- Demonstrated that cytoplasmic HuR levels are central to responsiveness to tamoxifen therapy and inhibition of HuR restores tamoxifen sensitivity in a tamoxifen-resistant cell line
- Published one peer-reviewed paper on the role of HuR in regulation of ER mRNA stability
- Demonstrated that 4-[2-(2-amino-4-oxo-4,6,7,8-tetrahydro-3H-pyrimidino[5,4,6][1,4] thiazin-6-yl)-(S)-ethyl]-2,5-thienoylamino-L-glutamic acid (AG2034) induces senescence in the androgen-dependent cell line, LNCaP
- Demonstrated that AG2034 treatment increases the concentration of the androgen receptor in the nuclear compartments in LNCaP cells
- Demonstrated that DU145 cells can re-initiate growth with continuous AG2034 treatment in the presence of 1.7 μ M hypoxanthine whereas, neither PC-3 nor LNCaP cells can

- Demonstrated that AG2034 increases the phosphorylation of the AMP-activated protein kinase (AMPK) independent of increasing AMP/ATP ratios in a cell line dependent manner
- Demonstrated that AG2034 induces an S-phase arrest in the androgen-dependent cell line, LNCaP but not in the androgen-independent cell lines DU145 or PC-3 cells
- Demonstrated that the prostate cancer cell lines, DU145, PC-3 and LNCaP cells are primarily dependent on the de novo pathway for purine synthesis and that the treatment of these cells with AG2034, an inhibitor of this pathway, causes a switch to the salvage pathway, a process which takes about 14 days in all three cell lines
- Investigated the induction of autophagy in lipopolysaccharide-stimulated human monocytes and macrophages
- Investigated the role of autophagy relative to the pathogenicity of virulent Shigella in infected human monocytes and macrophages and demonstrated that autophagy does not protect either the host cells or the pathogen
- Examined the expression of circadian genes in blood cells isolated from healthy human volunteers administered lipopolysaccharide
- Examined the expression of autophagy related proteins in various blood cell populations isolated from healthy human volunteers administered LPS
- Published the results of a collaborative project with investigators from the Department of Surgery, Wayne State University, Detroit, MI
- Continued studies of differential immune cell gene expression in endotoxemic normal subjects and critically ill patients using microarray and advanced bioinformatics technologies
- Continued studies in human volunteers investigating the effect of enteral versus parenteral feeding on gene expression in purified immune cells (monocytes, T-lymphocytes and neutrophils) using microarray and advanced bioinformatics technologies
- Completed studies investigating the effect of epinephrine pretreatment on monocyte, T-lymphocyte and neutrophil gene expression profiles in volunteers administered endotoxin in vivo
- Continued to investigate the relationship between polymorphisms in toll-like receptor 4, MDM2, and MIF on the response to in vivo endotoxin challenge in normal human volunteers
- Continued studies of time-related changes in heart rate variability in human volunteers challenged with intravenous endotoxin
- Initiated studies to assess influence of time-of-day/diurnal responses to endotoxin in humans
- Continued studies of association between mutations and polymorphisms in specific genes and increased susceptibility to infection and/or sepsis or to the response of human volunteers to intravenous endotoxin administration
- Continued studies of the differential regulation of monocyte and neutrophil cell-surface receptors associated with the inflammatory response in human volunteers administered

intravenous endotoxin

- Continued gene expression by microarray analyses in purified subsets of blood leukocytes (monocytes, T-lymphocytes, neutrophils) after endotoxin administration to human volunteers who were pretreated with counter-regulatory endocrine hormones including cortisol and epinephrine
- Continued use of more advanced bioinformatics approaches for analysis of microarray data
- Initiated a study to compare a novel microfluidics approach to prepare peripheral blood leukocytes with a “standard” buffy coat approach after endotoxin administration to human volunteers
- Performed a retrospective analysis of serum electrolyte changes before and after the development of sepsis in surgical ICU patients
- Determined that constitutive recycling of FN integrin, $\alpha 5 \beta 1$ is ligand dependent. In the absence of FN, internalized integrin is targeted for degradation
- Identified distinct intracellular compartments for internalized integrin in the presence or absence of ligand
- Determined that FN matrix assembly is dependent on endocytosis and can be blocked by overexpression of dominant negative Rab11
- Successfully cultured human dermal fibroblasts on biodegradable polymers of differing thickness and imaged using immunofluorescence and determined that polymer fibril thickness modulates FN matrix assembly
- Demonstrated that MLL cells transfected to express FAK upregulate fibronectin matrix assembly
- Showed that upregulation of matrix assembly results in higher intercellular cohesion
- Showed that this resulted in phase separation of the parent and transfected cell lines
- Showed that in histological sections of human prostate cancer the degree of intermixing between tumor and stromal cells correlates with Gleason grade
- Demonstrated that treatment of invasive cell lines with MEK inhibitor results in increased cohesion and decreased cross-adhesion with stromal cells
- Showed that invasive prostate cancer cells express very low levels of syndecan-4, a major regulator of matrix assembly
- Showed that transfecting cells with syndecan-4 restores matrix assembly
- Showed that restoring matrix assembly upregulates other factors that regulate process, such as $\alpha 5$ integrin
- Published manuscript: Jia, Dongxuan, Daniel DaJusta, and Ramsey A. Foty (2007). Tissue surface tensions guide in vitro self-assembly of rodent pancreatic islets. *Develop. Dyn.* (in press)
- Constructed plasmids expressing GFP fusion proteins for FRNK non-kinase region of FAK

- Generated FAK wild-type cell lines expressing FRNK-GFP fusion protein
- Generated FAK null cells that express high levels of FAK
- Showed that siRNA knockdown of E-cadherin expression in ectoderm results in decreased cohesion
- Demonstrated that reduced cohesion resulted in phase between ectoderm and mesoderm
- Developed an image analysis method to quantify equilibrium configurations generated by sorting assays
- Manuscript published in HFSP Journal: Eva-Maria Schotz, Rebecca D. Burdine, Frank Julicher, Malcolm S. Steinberg, Carl-Philipp Heisenberg, and Ramsey A. Foty. The role of differential adhesion in zebrafish germ layer positioning. HFSP Journal 2(1): 42-56
- Performed sorting assays between CHO cells expressing different chimeric $\alpha 5$ integrin molecules
- Showed that cells expressing $\alpha 5$ integrin extracellular domain and cytoplasmic domain segregate from parent cell line
- Showed that cells expressing $\alpha 5$ integrin extracellular domain and $\alpha 2$ integrin cytoplasmic domain intermix with parent cell line
- Demonstrated that fibronectin matrix correlates with sorting behavior
- Measured surface tension for all chimeric cell lines
- Initiated sorting experiments with N-cadherin/ $\alpha 5$ integrin double transfectants and parent cell lines
- Showed that highly aggressive brain tumor cell lines cannot assemble fibronectin into a matrix
- Demonstrated that treatment with dexamethasone restores this ability
- Developed an assay to quantify brain tumor dispersal onto ECM components
- Showed that Dex-treatment markedly reduced dispersal velocity
- Sponsored travel fellowship for a graduate student from Spain from the Company of Biologists. Fellowship was awarded
- Measured aggregate surface tension of chick myocardium and proepicardium
- Showed that incubation of myocardium in retinoic-acid treated proepicardial cell conditioned medium results in a marked increase in myocardial surface tension
- Developed several proepicardial cell lines
- Performed sorting assays between myocardium and pro-epicardial cells
- Dr. Shaohua Li was recipient of the 2007 Stem Cell Research Award

- Demonstrated that CREG promotes smooth muscle cell differentiation and growth arrest, and reduces neointimal formation after arterial injury
- Demonstrated that basement membrane and VEGF synergistically activate Cdc42 and Rac1 to mediate endothelial cell migration and survival during vasculogenesis from ES cells
- Discovered that Rac1 is required for basement membrane-dependent epiblast survival during embryonic epithelial morphogenesis
- Demonstrated that beta1 integrin controls visceral endoderm differentiation by activating MAP kinase pathways
- Discovered that talin1 promotes epiblast epithelial morphogenesis by preventing beta1 integrin from proteasome-mediated degradation
- Presented findings in posters entitled
 - Bioresorbable PEG Containing Tyrosine Derived Polycarbonates Decrease Thrombogenicity of EPTFE
 - Engineering Endothelial Cell Resistance to Flow Induced Detachment
- Discovered that the mutation in the *Id* genes that causes the embryonic lethal “thin myocardial syndrome” in mice had a strong maternal component
- Demonstrated that an evolutionarily conserved domain of *roX2* RNA is sufficient for induction of H4-Lys16 acetylation on the *Drosophila* X chromosome
- Discovered that telomere interferes with Mec1 association with DNA ends, but not Tel1 association
- Discovered that the Pif1 DNA helicase prevents damage at specific sites in mitochondrial DNA
- Demonstrated that the ERK2 MAP kinase extends lifespan by anti-oxidative stress mechanisms using baker’s yeast as a model system
- Invented and patented the “miRNA eraser”, an adenovirus mediated expression system to inhibit endogenous miRNAs in mammalian cells
- Described the role of muscle specific miRNA-1 during the development of cardiac hypertrophy
- Described the role of miRNA-21 in cardiac hypertrophy and cancer patents
- Demonstrated that deletion of retinoblastoma tumor suppressor in hematopoietic stem cells alone is sufficient to induce defective erythropoiesis
- Established that prior exposure to an immune challenge reduces the expression of startle suppression in female rats following traumatic stress
- Demonstrated that certain phenotypes are more susceptible to developing startle suppression following exposure to a traumatic stressor

- Discovered two novel protective mechanisms against spirochete infection: one is reduction of the pathogen load in the circulation and another is prevention of brain endothelial cell apoptosis by spirochetal lipoproteins
- Completed a study on a role of the Variable Major Protein Family of Relapsing Fever Spirochetes as adhesins/invasins. Using *Borrelia burgorferi* recombinant for Vsp1 or Vsp2 discovered a role for VMP in adhesion to brain endothelial cells
- Completed the most sensitive MRI study, comparing copaxone and beta-seron in MS therapy
- Developed a feline model of neuropathy associated with anti-MAG/SGPG antibodies
- Discovered that defective alterations in insulin-like growth factor signaling results in a shift in the balance between stem and progenitor cell populations in the breast epithelium during early mouse development
- Completed a study of the mechanism by which regulatory T cells suppress autoimmune T cells in experimental allergic encephalomyelitis, an experimental model of multiple sclerosis
- Found that galectin-1, released by regulatory T cells, reacts with GM1 ganglioside in the membrane of effector T cells to trigger a signaling cascade that opens a TRPC5 channel allowing calcium influx and thus preventing autoreactivity by the effector T cells
- Demonstrated a link between juvenile exercise and subsequent obesity development in rats
- Showed that maternal obesity affects propensity towards future diabetes
- Demonstrated the importance of glucokinase in mediating responses to low blood sugar
- Established that there is active neuronal regeneration from the resident neural stem cells of the subventricular zone during recovery from neonatal brain damage; however, the vast majority of new neurons are calretinin expressing interneurons
- Discovered that 17 β -Estradiol Protects the Neonatal Brain from Hypoxia-Ischemia
- Established that delayed IGF-I Administration Rescues Oligodendrocyte Progenitors from Glutamate Induced Cell Death and Hypoxic-Ischemic Brain Damage
- Established that Ciliary Neurotrophic Factor And IL-6 differentially activate microglia
- Discovered a polymorphism of a glutathione metabolism gene in autism
- Showed that Intrathecal Antibody Production (ITAbP) is associated with more antibody production per cell than is antibody production elsewhere in the body
- Found that ITAbP is associated with high levels of antibody in the cerebrospinal fluid (CSF)
- Identified CCR6-expressing effector memory T cells as the major producer of interleukin-17, a cytokine that plays a critical role in human inflammatory and autoimmune disorders
- Demonstrated that a gene reporter assay is superior to the cytopathic effect assay (CPE) in measuring neutralizing antibody responses in the blood of multiple sclerosis patients

- Demonstrated that the cytokines that promote differentiation of human naïve T cells into IL-17-secreting cells regulate IL-17 production by memory T cells
- Determined the cytokines, IL-1 β and IL-23 are involved in promoting the differentiation of human naïve T cells into the Th17 subset
- Demonstrated that IL-27 suppresses IL-1 β /IL-23-induced IL-17 production and that IL-10 and the transcription factor STAT1 mediate the inhibition
- Showed that T cell activation induces expression of Foxp3, a marker linked to T regulatory cells and that the balance between Foxp3- and IL-17- expressing T cells is inversely influenced by the cytokine environment
- Demonstrated the alteration of motor function and neuromuscular transmission in diabetic mice
- Determined that disruption of the IGF-IR regulates stem/progenitor cell lineages in mammary epithelial cells
- Determined that the glutamate-mediated death pathway in late OPs is associated with the conformationally altered Bax protein indicative of activated Bax
- Discovered that truncated Bid is found in glutamate-treated late OPs suggesting that it may be the BH3-only binding partner and activator of Bax in excitotoxic death of these cells
- Identified two Bax binding proteins by LC-MS/MS and MALDI-TOF/ TOF. Beta-tubulin appears complexed with Bax in glutamate-treated but not (IGF)-I treated OPs and cofilin is in complex with Bax in IGF-I treated cells
- Demonstrated possible linkage of a novel gene which may be linked to multiple sclerosis susceptibility
- Developed a transgenic mouse model, which can be used to study canine distemper virus infection in mice
- Determined and continuing to assess the potential for developing an effective oral therapy to treat multiple sclerosis, in an international clinical study
- Demonstrated the beneficial effects of short-term erythropoietin therapy in an animal model of multiple sclerosis
- Demonstrated beneficial effects of short-term erythropoietin (EPO) therapy, in several animal models of acute neurologic injury, including experimental autoimmune encephalomyelitis (EAE), the animal model of multiple sclerosis
- Demonstrated that reduction in the acute clinical paralysis seen in EAE mice following treatment with EPO is accompanied by a large reduction in the mononuclear cell infiltration and down regulation of glial MHC class II expression within the inflamed CNS
- Found cardio respiratory abnormalities in law enforcement trainees exposed to stun guns during training
- Established a novel animal model of anxiety vulnerability and avoidance sensitivity

- Discovered that ethanol dually modulates GABAergic synaptic transmission onto dopaminergic neurons in ventral tegmental area via mu-opioid receptors
- Discovered that P2 receptors at GABAergic synapses of VTA dopamine neurons are targets for ethanol action
- Discovered that facilitating GABAergic transmission to periaqueductal gray neurons is a novel mechanism underlying labetalol-induced analgesia
- Discovered that propofol-induced sedation is related to brain glycine receptors
- Discovered that “protective” ventilation damages normal lungs as demonstrated by the increased in situ inflammatory response
- Demonstrated that blockade of GABA receptor antagonizes sedative action of isoflurane
- Discovered that microRNAs play important roles in isoflurane-mediated cell protection
- Demonstrated that miR-21 has pro-proliferative and anti-apoptotic effects on VSMCs and has a negative effect on vascular neointimal formation
- Demonstrated that miR-145 is a novel phenotypic marker modulator of vascular smooth muscle cells and plays an important role in vascular lesion formation
- Characterized the roles of microRNAs in cardiac hypertrophy
- Demonstrated critical roles for PDCD4 and microRNAs in reactive oxygen species (ROS)-mediated cellular effects
- Showed that leukocyte-derived myeloperoxidase exacerbates atherosclerosis in diabetic rats
- Discovered a critical role for PPAR γ in lysophosphatidic acid-induced phenotypic modulation of vascular smooth muscle cells
- Demonstrated that dietary resistant starch reduces loss of bone mineral density during weight cycling in rats, and found that the likely mechanism for this effect is enhanced calcium and magnesium absorption
- Demonstrated that the 4-thiazolidinone ring system is a novel scaffold for developing hepatitis C virus (HCV) polymerase (NS5B) inhibitors
- Discovered a new class of HCV NS5B inhibitors belonging to the coumestan family of phytoestrogens
- Demonstrated structure-activity correlation of the coumestan derivatives by biochemical, kinetic and molecular docking analysis
- Developed 3D QSAR models to predict the anti-HCV NS5B polymerase activity of structurally diverse set of compounds and to yield reliable clues for their further optimization

- Demonstrated that phagocytosis of apoptotic cells could be dissociated from immune modulation by introducing specific mutations in the cytoplasmic domain of the TAM receptor, Mertk
- Demonstrated that apoptotic breast cancer tumor cells display surface molecules that promote a pro-inflammatory response
- Demonstrated that type III interferon signaling can induce apoptosis in human colorectal carcinoma cells
- Showed that interferons up-regulate expression of HIV receptors and coreceptors and increase HIV uptake and replication in human cells
- Described molecular mechanisms governing expression of type III interferon genes
- Revealed that type I and type III interferons have biological effects on distinct subsets of target cells
- Demonstrated that the polyphenols, resveratrol, gallic acid and ellagic acid, have additive effects with inhibitors of histone deacetylases in the induction of differentiation in Caco-2 human colon cancer cells
- Established an in organelle assay system to study mitochondrial DNA replication in vitro
- Discovered that the cytoplasm of mammalian cells harbors an as yet unidentified activity that positively regulates mitochondrial DNA replication
- Demonstrated that the synthesis of the two DNAs present in mitochondria, 7S DNA and full-length genome, differentially responds to varying concentrations of nucleotides
- Discovered abnormal lipid metabolism in cell models of mitochondrial diseases
- Discovered abnormal protein expression in HIV positive oral HPV lesions
- Discovered that auxiliary RNA sequence elements which were predicted by bioinformatic analysis can impact polyadenylation in both positive and negative ways
- Discovered that the protein NF45 is a regulatory partner of the NF90 family proteins and its depletion leads to reduction in DNA synthesis and formation of multinucleated HeLa cells
- Demonstrated that the newly-discovered snaR genes probably originated from an endogenous retrovirus and are expressed in regions of the brain
- Demonstrated that mismatch cleavage by DNA polymerase I class of enzymes require presence of a distinct binding track for template overhang
- Successfully over-expressed a fragment of DNA polymerase E2 of *M. tuberculosis* and generated a polyclonal antibody to it: this is expected to be a crucial reagent in assessment of drug resistance in TB
- Discovered that 5-lipoxygenase is a negative regulator of bone regeneration

- Discovered that 5-lipoxygenase and cyclooxygenase-2 have diametric effects on tissue regeneration
- Demonstrated that pharmacological inhibition of 5-lipoxygenase dramatically accelerates bone fracture healing
- Demonstrated that 5-lipoxygenase inhibition can significantly accelerate and improve spinal fusion
- Showed that diabetes-impaired tissue regeneration can be improved by application of platelet-derived growth factor
- Demonstrated that a cellular factor, FUSE binding protein (FBP), is a potential regulator of hepatitis C virus (HCV) replication and translation
- Developed a novel procedure for biodelivery of naked peptide nucleic acids (PNAs) based on an intracellularly biodegradable triphenylphosphonium cation (TPP) transporter system
- Demonstrated that anti-HIV-1 PNA-cell penetrating peptide conjugates are nontoxic in mouse model up to 100 mg/kg of body weight
- Discovered that the growth factor progranulin that binds to HIV-1 Tat is highly expressed in autopsy brain tissue from children with HIV encephalitis
- Found that two drugs targeting the hypusination of the cellular factor eIF5A inhibit HIV-1 transcription initiation and also inhibit nonsense-mediated RNA decay
- Discovered a regulatory sequence that controls Bone Morphogenetic Protein 2 (BMP2) synthesis in lung and vascular cells where aberrant BMP2 synthesis occurs during malignancy or pathological calcification
- Established that mycoplasma-induced Bone Morphogenetic Protein 2 (BMP2) synthesis stimulates lung cancer cell growth
- Demonstrated that purified mitochondrial ATP-dependent Lon protease binds specifically to single-stranded mitochondrial DNA sequences with a propensity for forming guanine tetraplexes
- Demonstrated that the mitochondrial ATP-dependent Lon protease degrades the steroidogenic acute regulatory protein StAR, and that Lon-mediated degradation of StAR is blocked by the 26S proteasome inhibitors- MG132 and clasto- β -lactacystin, but not epoxomicin
- Demonstrated that the proteasome inhibitor Velcade (bortezomib), which is clinically approved for the treatment of multiple myeloma, blocks the mitochondrial ATP-dependent Lon protease in cultured cells
- Demonstrated that the triterpenoid CDDO blocks the protease activity of Lon but not the 26S proteasome
- Demonstrated that the triterpenoid CDDO forms adducts with mitochondrial ATP-dependent Lon aconitase *in vitro* and in cultured cells
- Demonstrated that aconitase is a substrate of Lon

- Demonstrated that the W748S mutant of the mitochondrial DNA polymerase γ A subunit (POLGA), which is linked with Alpers disease, does not assemble with its partner protein-mitochondrial DNA polymerase γ B subunit (POLGB) and is degraded by the mitochondrial Lon protease
- Obtained crystals of the siderophore interacting domain of IrtA, a membrane transporter from *Mycobacterium tuberculosis*
- Overexpressed and purified proteins of the entire cytosolic domain, kinase domain, and ATP-binding domain of PhoR from *Mycobacterium tuberculosis*
- In the process of solving the crystal structure of the C-terminal domain of a transcription factor IIB (TFIIB)-like protein from *Trypanosoma brucei*
- Demonstrated that molecular beacons are sensitive and specific hybridization probes for detection of the Lyme disease causing bacteria in infected mouse tissues
- Showed that the mutants of infectious *Borrelia burgdorferi* strains, which lack genes encoding decorin-binding proteins, can neither bind mammalian cells nor colonize mouse tissues efficiently during infection
- Found that meiotic recombination levels at the ends of chromosomes exclusive of the subtelomeres was higher than elsewhere on the chromosome
- Proposed that *Saccharomyces cerevisiae* appears more human like with respect to the control of meiotic recombination and chromosome position effects
- Discovered that *Saccharomyces cerevisiae* nuclei and paired chromosomes move vigorously during the pachytene stage of meiosis
- Demonstrated that chromosome and nuclear movement is dependent upon polymerized actin and the attachment of chromosomes to the nuclear periphery
- Invented a simple method of isolating disomic strains of *Saccharomyces cerevisiae*
- Invented a simple method for measuring the fidelity of meiotic chromosome transmission in *Saccharomyces cerevisiae*
- Discovered the chromatin occupancy by the gene transcription factor TFIIB in the medically important parasite, *Trypanosoma brucei*
- Characterized the transcriptional complex that drives the essential RNA, the spliced leader RNA, in infectious trypanosomes
- Described a novel enzyme, related to the human tumor suppressor protein FHIT, that uses the trypanosome capped RNA as a substrate
- Described the role of a key part of RNA polymerase II enzyme in the medically important parasite, *Trypanosoma brucei*
- Described the relationship between RNA polymerase II and novel associated factors in trypanosome parasites

- Determined the underlying role of the ATP-hydrolysis related Walker motif in a novel trypanosome protein
- Identified replication origins in the fungal pathogen, *C. neoformans*
- Demonstrated the effect processing on Cortical Bone Allograft Processing in vivo in a canine model
- Discovered the manner in which the SWI/SNF chromatin remodeling complex distinguishes positive and negative controls in a pre-osteoblast model of cell cycle regulation
- Discovered that physiological stress is a stimulus for induction of the metastasis marker AGR2 in tumor cells
- Obtained preliminary findings implicating loss of the chromatin remodeling complex subunit ARID1A in nephroblastoma susceptibility
- Showed the relationship of the linea aspera as a rotational landmark in tumor endoprosthesis reconstruction
- Described parameters for residual motion after lumbar fusion using a simulated arthrodesis model in cadavers
- Demonstrated effect of altered arachidonic acid metabolism in spinal fusion in a rat model (Vives)
- Demonstrated how amino acids activate mTOR complex 1 via Ca^{2+} /CaM signaling to hVps34
- Demonstrated how prior Hypoglycemia enhances glucose responsiveness in some ventromedial hypothalamic glucosensing neurons
- Demonstrated mechanisms by which antimalarial drugs disrupt ion homeostasis in malarial parasites
- Demonstrated that desensitization of soluble guanylyl cyclase, the NO receptor, is via a mechanism involving S-nitrosylation
- Demonstrated that extracellular cAMP inhibits D1 dopamine receptor expression in CAD catecholaminergic cells via A2a adenosine receptors
- Demonstrated that NO and CO differentially activate soluble guanylyl cyclase via a heme pivot-bend mechanism
- Demonstrated that glucose, insulin and leptin signaling pathways modulate nitric oxide synthesis in glucose-inhibited neurons in the ventromedial hypothalamus
- Reported that the sodium-calcium exchanger is a mechanosensitive transporter
- Demonstrated that luminal fructose inhibits rat intestinal sodium-phosphate cotransporter gene expression and phosphate uptake
- Demonstrated how Dexamethasone sensitizes the neonatal intestine to fructose induction of intestinal fructose transporter (Slc2A5) function

- Demonstrated a mechanism by which 2-aminoethoxydiphenyl borate directly inhibits channels composed of connexin26 and/or connexin32
- Demonstrated that Bioisosteric Heterocyclic Versions of 7-[[2-(4-Phenyl-piperazin-1-yl) ethyl] propylamino]-5,6,7,8-tetrahydronaphthalen-2-ol are Highly Potent and selective Agonists for Dopamine D3 Receptor with Potent in Vivo activity
- Described structure-activity relationships of hybrid 7-[[2-(4-phenylpiperazin-1-yl) ethyl] propylamino]-5,6,7,8-tetrahydronaphthalen-2-ol analogue and identified a high-affinity D3-preferring agonist with potent in vivo activity with long duration of action
- Demonstrated that the tolerance property of human D3 dopamine receptor is determined by specific amino acid residues in the second cytoplasmic loop
- Described essential roles for the acetylcholine receptor $\{\gamma\}$ -subunit in neuromuscular synaptic patterning
- Demonstrated the rescue of developing avian motoneurons from programmed cell death by a selective inhibitor of the fetal muscle-specific nicotinic acetylcholine receptor
- Demonstrated how Hyperglycemia impairs glucose and insulin regulation of nitric oxide production in glucose-inhibited neurons in the ventromedial hypothalamus
- Demonstrated that the amyloid-beta precursor protein is phosphorylated via distinct pathways during differentiation, mitosis, stress, and degeneration
- Demonstrated how TRPC5 channels undergo changes in gating properties during the activation-deactivation cycle
- Demonstrated how reactive oxygen species contribute to Ca^{2+} signals produced by osmotic stress in mouse skeletal muscle fibres
- Described induction of calcium influx through TRPC5 channels by cross-linking of GM1 ganglioside associated with $\alpha 5 \beta 1$ integrin neurite outgrowth
- Demonstrated how prior Hypoglycemia enhances glucose responsiveness in some ventromedial hypothalamic glucosensing neurons
- Demonstrated how antimalarial drugs disrupt ion homeostasis in malarial parasites
- Investigated voltage-dependent modulation of L-type calcium currents by intracellular magnesium in rat ventricular myocytes
- Demonstrated that GTP is required for iron-sulfur cluster biogenesis in mitochondria
- Demonstrated that the sodium-calcium exchanger is a mechanosensitive transporter
- Studied Phospholipase C Mediated Modulation of TRPV1 Channels
- Demonstrated that hydrolysis of phosphatidylinositol 4,5-bisphosphate mediates calcium induced inactivation of TRPV6 channels
- Reported that RyR1 S-nitrosylation underlies environmental heat stroke and sudden death in Y522S RyR1 knockin mice

- Identified the mechanism of reduced susceptibility of certain *Candidia* species to the new echinocandin antifungal drugs
- Developed a rapid diagnostic platform for detecting broad groups of bacterial and fungal pathogens in blood
- Developed a new assay to transform human memory B cells by EBV
- Discovered that the siderophore interacting domain of the *M. tuberculosis* iron transporter IrtAB is involved in iron assimilation
- Discovered that antigen cross-presentation pathway producing soluble MHC class I with high-affinity peptides involves mediation by ADAM19
- Discovered intracellular localization of ADAM19 and its substrate, MHC class I protein, in the lysosomal compartment
- Obtained crystals of the siderophore interacting domain of IrtA, a membrane transporter from *Mycobacterium tuberculosis*
- Formulated a metabolic model of *M. tuberculosis* persistence based on the real time RT-PCR transcription characterization of *M. tuberculosis* carbon metabolism in a murine model
- Demonstrated the utility of mass spectrometry in a high throughput *M. tuberculosis* drug resistance genotyping protocol
- Characterized community acquired MRSA strains USA300 as a highly emerging epidemic clone undergoing rapid diversification
- Characterized the molecular changes in the rapid evolution of the *S. aureus* clonal complex 30 strains and their significance to bacterial specialization
- Developed method of quantitating relative effect of epitope masking by the V1/V2 domain of gp120 on the neutralization phenotype of HIV-1 isolates
- Demonstrated V1/V2-independent masking effect of specific V3 domain sequences on neutralization sensitivity of epitopes located in multiple domains of gp120
- Determined the efficacy of an HIV-1 vaccine designed to induce a V3-directed antibody response
- Identified *M. tuberculosis* genes encoding enzymes involved in cholesterol metabolism that play a role in pathogenicity
- Reported the regulon of the *Mycobacterium tuberculosis* Sigma factor E during macrophages infection
- Studied the role of the toxin-antitoxin systems of *Mycobacterium tuberculosis* during persistent infection
- Developed methods to identify markers of active tuberculosis using a whole Mtb proteome chip

- Discovered that in a macaque model, cumulative antibody profiles are distinct for *M. tuberculosis* infection outcome group
- Discovered that previous BCG vaccination is associated with decreased antibody response to *M. tuberculosis* infection in a mouse model
- Identified sigma factors and novel transcriptional factors required for the upregulation of key genes of central metabolism during growth arrest of *M. tuberculosis*
- The *M. tuberculosis* phenolic glycolipid PGL-tb requires the presence of additional strain-specific bacterial factors to enhance virulence
- Identified polymorphisms in toll-like receptor (TLR)4 associated with protection against leprosy
- Demonstrated that bistable gene expression is common in *Bacillus subtilis* and have initiated a genetic screen to identify new bistably expressed systems
- Demonstrated that the traffic ATPase, similar to many proteins involved in pilus formation and type 2 secretion, operates to construct a pseudopilus that is required for DNA uptake during bacterial transformation
- Discovered that McsB's role in the delocalization of the competence complex from the poles of the competent *Bacillus subtilis* cell, is due to its targeting some protein(s) for degradation
- Identified a set of mRNA processing mediators that are down-regulated by Interferon gamma in macrophages infected with *Mycobacterium tuberculosis* but not in uninfected cells
- Demonstrated that expression of key transcription factors in host defense against *Mycobacterium tuberculosis* is down-regulated at the level of mRNA processing by Interferon gamma in macrophages that are infected but not in uninfected cells
- Developed a method for identifying new fluoroquinolone-like antimicrobials that are expected to severely restrict the emergence of resistance
- Developed a new *in vitro* model to mimic the arrest of bacterial growth thought to occur during tuberculosis
- Demonstrated that hyperglycemia impairs glucose and insulin regulation of nitric oxide production in glucose-inhibited neurons in the ventromedial hypothalamus
- Investigated concentration-dependent binding of chlorpyrifos oxon to acetylcholinesterase
- Reported that GTP is required for iron-sulfur cluster biogenesis in mitochondria
- Discovered that inhibition of p53 by pifithrin-alpha decreased the infarct size of heart and improved heart function at 24 hours of reperfusion in an aged rat heart ischemia model
- Developed a unique, *in vitro* method which appears capable of inducing increased ligodendrocyte lineage commitment in human fetal neural stem cells
- Demonstrated that the gonad influences lizard adrenal function at the cellular level

- Demonstrated that food restriction enhances lizard adrenal function at the cellular level
- Completed characterization of the female sterility in miR-290-295 mice
- Completed total synthesis of Resolvin D6, Resolvin E2, d4-Resolvin D5, d2-2,3 dinor-5,6 Dihydro-F2, and d2-Lipoxin A4
- Discovered that lung macrophages from rats with septic peritonitis were suppressed in that there was reduced nuclear localization of the transcription factor NF- κ B
- Identified *E. coli* genes that are targets of action of transcription elongation factor GreA by using combination of global gene expression profiling, biochemical and in vitro transcription analysis
- Developed a new model of termination complex of RNA polymerase and proposed an alternative mechanism of transcription termination and its regulation
- Completed biochemical and functional characterization of the structural elements comprising an intermolecular interface between RNA polymerase and transcription factors GreA, GreB & DksA
- Published the model for ROS-GC1-NCALD interaction important in visual pathway
- Demonstrated a link between NCALD and circadian rhythms
- Discovered a link between cGMP system and Alzheimer's disease
- Discovered that during meiosis Pd1p (a negative regulator of chromosome segregation during mitosis) is required to prepare the chromosomes for the loading of the recombination machinery
- Developed a new technique for visualizing protein: protein interactions in living animals
- Discovered that the mammalian microRNA regulator Lin28 is required for normal growth and development of the embryo
- Discovered that during neurogenesis, Lin28 acts to control the fate of stem cells that produce neurons and glial cells
- In collaboration with our STTR partner, Microbiotix Inc., identified a class of small molecules that inhibit Anthrax DnaB helicase as well as growth of Anthrax in culture
- Demonstrated that tyrosine kinases need focal adhesion proteins to block communication between cancer cells
- Discovered that cancer cells have an increased concentration of cholesterol in their mitochondria that may account for their reliance on glycolysis and their resistance to chemotherapeutic agents
- Discovered that ethanol-exposure stimulates the activity of sterol response element binding protein (SREBP-1)

- Discovered that the induction of meiotic genes in budding yeast required the destruction of the transcriptional repressor Ume6p by the Anaphase Promoting Complex ubiquitin ligase
- Continued to collect data on the prevalence of anti-neuronal antibodies in human sera and their role in neurodegenerative disease progression
- Determined that the presence of neuron-binding autoantibodies in human sera is neither aging- nor disease-dependent
- Demonstrated that many individuals possess common neuron-binding autoantibodies in their serum that have the same antigen targets
- Showed that neuron-binding autoantibodies in human sera show cross-species reactivity with mouse, rat, cow and pig, suggesting evolutionary conservation of protein targets
- Discovered that deposition of amyloid within blood vessels in the brains of Alzheimer's disease patients (cerebrovascular amyloidosis) is due to combination of blood-brain barrier breakdown and selective affinity of amyloid peptides for vascular smooth muscle cells lining these blood vessels
- Determined that neuron-binding autoantibodies in human serum selectively target damaged neurons in the brain, raising the possibility that these serum antibodies represent part of highly conserved neuronal cell death mechanism
- Demonstrated that chronic leak of Abeta peptides through a defective blood-brain barrier in aged mice causes brain amyloid deposition that is accompanied by detectable behavioral deficits
- Demonstrated that chromosomal end-fusions in the region of telomeres may be related to loss of stem cell status and cell senescence in cultures of human umbilical cord adult stem cells
- Demonstrated that the translational regulator, eEF2 kinase, controls stress resistance and extends lifespan in mice
- Showed that prenatal cocaine reduces AMPA receptor synaptic expression through hyperphosphorylation of the synaptic anchoring protein GRIP
- Demonstrated that the Nogo66 receptor is an acceptor for Alzheimer's Abeta peptides and contributes to intracellular Abeta peptide deposition
- Showed that two potential cancer biomarker proteins, Sdpr and Fhl1, are coordinately suppressed in epithelial tumor cells of the breast, kidney and prostate
- Investigated that mild maternal hyperglycemia increased risk of fetal overgrowth in minority pregnant women
- Investigated that elevated fasting plasma free fatty acids concentration during pregnancy were associated with increased risk of preterm delivery
- Examined that dietary and supplement intake of vitamin D during pregnancy influenced fetal growth

- Continued to study higher levels of isoprostane excretion, an indicator of oxidative damage to lipids, in early in pregnancy increased the risk of maternal preeclampsia and preterm delivery
- Developed a microfluidic biofilm reactor for studying the effectiveness of catheter lock solutions
- Identified a crucial role for exopolysaccharides in immune evasion by diverse bacterial species
- Identified a novel mechanism of oral colonization utilized by periodontal pathogens
- Discovered that predatory prokaryotes can be used to reduce biofilms composed of oral pathogens
- Developed a new technique for isolating proteins that exhibit antimicrobial properties
- Developed a novel approach for isolating genes involved in predation
- Found that living in a neighborhood with higher convenience store density and living in a newer neighborhood is associated with a higher probability of being overweight for children and adolescents. Also found that living in the neighborhood with no physical disorder is associated with a decreased likelihood of being overweight for children and adolescents
- Presented results of the study "Overweight Children: Assessing the Contribution of the Neighborhood Environment" at the 2007 American Public Health Association's Annual Meeting in Washington DC
- Results of the study "Overweight Children: Assessing the Contribution of the Neighborhood Environment" to be published in Preventive Medicine
- Found no evidence in a large case-control study that screening for prostate cancer with the prostate specific antigen (PSA) blood test reduced mortality from prostate cancer in New Jersey men. The study appeared to exclude a mortality benefit of more than 25%
- Found that slow, careful vacuuming of carpets in urban households with lead-exposed children could reduce surface lead on the carpet by 29% and that this could be increased to a 40% reduction with the addition of dry steam cleaning
- Found in a large medical practice database that antihypertensive treatment regimens that included ACE inhibitors were associated with a 10-20% lower rate of diabetes onset than were other antihypertensive drug regimens
- Launched a large study of gene-environment interaction concerning physiological and biochemical responses to drastic changes in air pollution during the Beijing Olympics
- Submitted a manuscript entitled "Quantification of 1-aminopyrene in human urine after a controlled exposure to diesel exhaust". In the manuscript, urinary 1-aminopyrene is suggested as a sensitive biomarker for diesel exhaust exposure
- Examined whether toxic chemicals can be absorbed from synthetic turf materials through unintentional ingestion

- Published findings from “Factors mediating the association between drinking behavior in the first year post alcohol treatment and drinking at three years” in the Journal of Studies on Alcohol and Drugs
- Published findings from “Social norms theory based interventions: Testing the feasibility of a purported mechanism of action and a related hypothesis” in the Journal of American College Health
- Published findings from “Do patient intervention ratings predict alcohol- related consequences” in Addictive Behaviors
- Published findings from “The utility of collateral informants in substance use research involving college students” in Addictive Behaviors
- Published findings from “Treatment completion in a brief motivational intervention in the emergency department: The effect of multiple interventions and therapist’s behavior” in Alcoholism: Clinical and Experimental Research
- Published findings from “Alcohol treatment research assessment exposure subject reactivity effects: Part I – Alcohol use and related consequences” in the Journal of Studies on Alcohol and Drugs
- Published findings from “Alcohol treatment research assessment exposure subject reactivity effects: Part II – Treatment engagement and involvement” in the Journal of Studies on Alcohol and Drugs
- Published findings from “Moderate drinking in the first year after treatment as a predictor of three-year outcomes” in the Journal of Studies on Alcohol and Drugs
- Collected breast milk and urine samples from 100 subjects and began analyzing samples for Perchlorate concentrations
- Found that men with early, but clinically significant, prostate cancer have denser bones than a reference population with prostate cancer
- Published article in the Journal of General Internal Medicine showing the lack of benefit of the PSA test in the NJ population during the 1990s
- Submitted for publication results showing that men with larger waist size are more likely to die from prostate cancer than those with smaller waist sizes
- Recruited over 150 girls in a NJ cohort to examine the role of numerous environmental and genetic factors on initiation of puberty
- Conducted a set of pilot studies on urban community outdoor air quality and in-vehicle exposure to multiple pollutants with real-time monitoring, which were first of their kind in Nigeria (results to be published FY2009)
- Led successful completion of interdisciplinary on-line survey of registered participants who completed their race on March 30, 2008; over 1-in-10 of nearly 11,000 athletes provided informed consent and completed the survey (data analysis completed and results published FY2009)
- Submitted a manuscript, after agency review, to special issue of Public Health Reports on occupational safety and health, which advanced from editorial board review to final peer-review

- Draft of manuscript was completed and is under review by a panel of experts for the “Consortium for Risk Evaluation with Stakeholder Participation”
- Found that women living in relatively poorer neighborhoods were significantly more likely to have advanced-stage breast cancer than women living in more privileged neighborhoods
- Examined the association between neighborhood socioeconomic condition and advanced-stage breast cancer separately for White, Black and Latina women. Findings remained significant for White women, were marginally significant for Black women, and among Latinas there was no significant association, possibly due to sample size issues
- Found increased risk of fetal growth restriction associated with increases in 1st and 3rd trimester fine particle concentrations, and 1st, 2nd, and 3rd, trimester nitrogen dioxide concentrations, suggesting traffic pollution may adversely effect fetal growth
- Presented research findings on fetal growth and ambient air pollution at international conference in Mexico City
- Expanded capabilities within the Institute for Complementary and Alternative Medicine (ICAM) Research Laboratory with new equipment and additional assays
- Completed segments of laboratory research investigating levels of inflammatory markers and other diabetes-associated proteins in adults with pre-Type 2 diabetes in the ICAM Research Laboratory
- Sought predictors of self-reported sleep quality in a pilot study of persons referred to a sleep center and were shown to have apnea hypopnea syndrome by nocturnal polysomnogram. Preliminary findings seem to indicate that perception of sleep quality may be more affected by depressive symptoms than fatigue, daytime sleepiness and age
- Showed that a multigenerational legacy of diabetes influences both health beliefs and diabetes self-care behavior
- Showed that a recollection of a family member’s dietary behavior is significantly associated with one’s own dietary behavior
- Developed and tested a survey measuring the social consequences of diabetes (stigma and inhibited disclosure) showing it is a valid and reliable survey that explains 48% variance of one’s illness perception of diabetes
- Showed that having recollections of a family member’s perceptions of controllability and social consequences of diabetes is significantly related to one’s own perceptions ultimately influencing medication adherence (pill and/or insulin)
- Showed that perceptions of the timeline of diabetes and one’s own understanding of diabetes is related to what one remembers about a family member’s perceptions and this ultimately is associated with one’s own dietary behavior
- Demonstrated that inhibited disclosure is more likely to be associated with medication adherence, especially insulin adherence than perceptions of stigma

- Showed that perceptions of diabetes are significantly different between those who remember a family member having diabetes and those who do not, controlling for healthcare provider knowledge
- Showed that Hispanic ethnicity was associated with perceptions of control ($p=.019$) and emotional representations ($p=.013$), as was age ($p=.047$)
- Demonstrated in a comprehensive systematic review of the experiences of family members that a lack of communication between family members and healthcare staff leave families feeling marginalized and under stress when a family member is a patient in a critical care area
- Developed a model of inter-related mediators of Pap screening in the Ryan White Care Act Part D Programs where findings support a number of common themes for barriers and facilitators to gynecologic care for women living with HIV infection
- Found that when rapport is good and sustained between women and their care providers, as in settings where there is continuity in gynecologic care providers, it facilitates access to Pap smears
- Demonstrated that systems of care that offer one-stop shopping for needed services enhance their capacity to supply continuity of care thereby increasing the likelihood that they will have higher rates of client adherence to schedules for regular cervical cancer screening, including follow-up of abnormal results and receipt of colposcopy
- Demonstrated that women support routine prenatal HIV testing and that women have important thoughts and opinions about the process and benefits of testing
- Showed that ensuring sufficient privacy with an atmosphere of trust and comfortable patient-provider interaction with at least one person on staff that women can feel comfortable approaching with questions enhances women's support of routine prenatal HIV testing
- Demonstrated that instituting universal prenatal HIV testing will help to reduce stigma by making testing a normal part of prenatal care for all women
- Demonstrated that expanding educational efforts beyond targeted high-risk audiences to increase knowledge and awareness at a societal level is needed
- Confirmed that supplying information about the risks and benefits of HIV testing and treatment during pregnancy and beyond should be consistently available
- Illustrated that growing numbers of resource-limited countries throughout the world have adapted the WHO/HHS/CDC Prevention of Mother-to-Child Transmission (PMTCT) Generic Training Package (GTP) to implement the training needed to support scale-up of PMTCT services
- Showed that providing technical assistance through training exchanges, regional adaptation workshops, and TA partners, is effective in supporting the adaptation and use of the curriculum as a general training resource and reference for on-the-job training and other trainings
- Confirmed, through surveys of client and health worker outcomes, the effectiveness of the GTP curriculum used to train health workers in PMTCT services by providing useful tools to identify areas for continued focus and improvement in training and services

- Demonstrated that children and youth with HIV infection who experienced one or more negative life events had significant lower health perceptions, more behavior problems and more symptoms of distress than children with no reported negative life events
- Demonstrated that strategic planning workshops are an effective approach to increasing a hospital's capacity to offer rapid HIV testing to women in labor with undocumented HIV status
- Showed that strategic planning workshops are a model intervention that can be applied in other settings to support rapid dissemination of innovations into practice, particularly those that required coordinated, interdisciplinary involvement of healthcare professionals
- Found in a survey of 853 women receiving services in clinics funded by the federal Ryan White CARE Act (RWCA) Part C and Part D agreements, that almost all women (90%) thought HIV testing should be part of a routine pregnancy check up and felt comfortable getting tested for HIV during pregnancy (88%), but only about one-half of women (45%) thought it was "OK to test for HIV without special consent"
- Found that women's opinions about routine testing and comfort with testing were not associated with respondent age, race/ethnicity, or pregnancy status, but they were associated with HIV status, with lower levels of agreement among women who had not received HIV testing
- Showed that higher knowledge levels about perinatal HIV transmission were associated with feeling comfortable with HIV testing. Overall, only about one-half (45%) of respondents thought an adequate amount of information was available.

CLINICAL SCIENCES

- Demonstrated deferoxamine induced an increase in vascular endothelial growth factor which could aggravate blood-brain barrier disruption in focal cerebral ischemia in rats
- Demonstrated blood-brain barrier disruption was attenuated with erythropoietin pretreatment in focal cerebral ischemia in rats
- Demonstrated increased cerebral oxygen consumption in Eker rats and effects of N-Methyl-D-Aspartate blockade
- Showed the effect of a previous neuraxial procedure affected subsequent epidural success rate in obstetric patients
- Demonstrated TSE "Mask" improved oxygenation and decreased requirements for airway assistance in deeply sedated patients during lengthy upper GI endoscopic procedures
- Demonstrated how to use TSE "Mask" to improve oxygenation and safety in sedated patients and to reduce stress in off-site anesthesia
- Showed the addition of ondansetron to iv-patient control naloxone further improved post C/S epidural-fentanyl-induced pruritus treatment
- Demonstrated epidural-PCA analgesia requirement for labor pain during the night

- Showed brain stem anesthesia following epidural block for Cesarean section
- Showed a complete left bronchus occlusion by mucous plug mimicking tension pneumothorax
- Showed epidural anesthesia for Cesarean section in a parturient with intracranial tumor
- Showed meningitis following intrathecal catheter insertion for accidental dural puncture
- Demonstrated the effect of epidural-PCA analgesia for a third day post Cesarean section pain
- Demonstrated TSE "Mask" improved oxygenation and prevented oxygen desaturation in sedated high risk patients during transesophageal echocardiography (TEE)
- Demonstrated the addition of intravenous lidocaine to propofol blunted the response to noxious stimuli upon insertion of endoscope for upper GI endoscopy
- Demonstrated the effect of epidural saline administration to improve success rate for combined spinal-epidural (CSE) for C/S
- Showed anesthesia-residency training programs violated JCAHO Standards concerning perioperative removable dental appliances
- Demonstrated the differences in Gertie Max and PENCAN spinal needles for CSE for Cesarean section
- Demonstrated the effect of a test dose before epidural blood patch
- Developed a clinically motivated 2-fold framework (utilizes both the protein stain information and the surrounding tissue architecture) for quantifying and classifying immunohistochemically stained specimens
- Developed a strategy of inserting the genes encoding immune stimulating cytokines and costimulatory factors into tumors in-situ, which in turn helped develop a clinical trial in bladder cancer which uses this strategy
- Showed that previously defined molecular sub-types of breast cancer actually develop very early in the oncogenic pathway, with distinctive sub-type-specific signatures being apparent even in early hyperplasia and atypical ductal hyperplasia
- Showed that apidine synergizes with cytosine arabinoside and determined the most effective dose schedule of this combination in vitro and in vivo, which led to a phase I clinical trial for patients with refractory leukemia
- Found a mi-24RNA binding site polymorphism in the dihydrofolate reductase gene that leads to methotrexate resistance and this study was the first to introduce a new field of Pharmacogenomics of microRNA
- Showed that administration of etoposide six hours after initiation of a topotecan/cytosine arabinoside infusion is feasible and is associated with clinical activity in patients with leukemia
- Developed a strategy using selenium to prevent resistance to platinating agents

- Developed a new technique to analyze microarray expression profiles using a combination of principal components analysis and consensus ensemble k-clustering to find robust clusters and gene markers in the data
- Discovered a novel approach to identify key mediators of metastasis through innovative analysis of expression profiling data and establish MTDH as an important therapeutic target for breast cancer
- Showed that low levels of pAkt may predict for skin toxicity in patients with metastatic breast cancer treated with erlotinib and other EGF receptor targeted agents
- Developed new approaches to analyze gene expression data from human breast cancer useful both in classification and clinical prognostication
- Prevention, Control, and Population Sciences
- Illustrated that the combination of TPA with NF- κ B inhibition leads to markedly enhanced cytotoxicity for prostate cancer cells
- Showed that atorvastatin in combination with Cox-2 inhibitors dramatically inhibits growth of human prostate cancer cells in xenograft models, suggesting new possible combination therapies for chemoprevention in men at high risk for prostate cancer
- Demonstrated that Furry variants play a key role in the susceptibility to carcinogen-mediated mammary carcinogenesis, at least in the rat
- Observed that PALB2 mutations are present, albeit not frequently, in breast cancer families
- Demonstrated that PALB2 is a novel breast cancer susceptibility gene that is involved in the BRCA2 pathway
- Studied the role of hormonal and dietary factors, as well as polymorphisms in genes involved in estrogen metabolism on endometrial cancer risk, conducting analyses on the relationship of phytoestrogen (plant compounds with estrogenic activity) and alcohol intakes and endometrial cancer
- Continued efforts to understand disparities in breast cancer treatment among different races; specifically, the reasons (1) surgeons do not recommend adjuvant treatment, (2) women decline adjuvant treatment when it is recommended, or (3) a system failure occurs (treatment recommended, not refused but did not ensue)
- Demonstrated that tissue fat may be secreting antiapoptotic factors that enhance cancer risk by inhibiting apoptosis in DNA-damaged cells, possibly explaining why obese individuals have a higher risk of cancer than the general population
- Showed that caffeine sodium benzoate and caffeine may be good agents for inhibiting the formation of sunlight-induced skin cancer
- Demonstrated that pterostilbene, a constituent of blueberries, suppresses aberrant crypt foci formation in the azoxymethane-induced colon carcinogenesis model in rats

- Found that Polyphenon E (PPE, a standardized green tea polyphenol preparation containing 65% EGCG) in the diet (0.12% in AIN93G diet) was more effective than PPE administered in drinking fluid (0.12%)
- Showed that treatment of mice with PPE and EGCG decreased cell proliferation index, increased apoptotic index, decreased nuclear beta-catenin levels, and decreased phospho-Akt levels
- Demonstrated the inhibition of colorectal aberrant crypt foci (ACF) formation and oncogenic changes in dysplastic ACF by PPE in azoxymethane (AOM)-treated F344 rats which found the colon cancer preventive activity of PPE and identified possible molecular markers for future colon cancer prevention studies
- Demonstrated synergistic action in the inhibition of cell growth (cell cycle arrest in G0/G1 phase) and induction of apoptosis
- Found that the combination of natural dietary phytochemicals isothiocyanates and phenolic compound curcumin in the APCmin mice genetic model of colon carcinogenesis is highly effective in preventing adenomas APCm in mice
- Demonstrated the inhibition of 4-hydroxybutyl(butyl)nitrosamin-induced urinary bladder cancer in rats by PPE and on the other hand, PPE had minimal affect in the prevention of mammary carcinogenesis induced by methylnitrosourea
- Confirmed the inhibition of mammary tumorigenesis and AOM-induced: ACF
- Showed the inhibition of colon tumorigenesis and prostate in mouse models and the inhibition of growth of human lung cancer cells in a xenograft model
- Found that autooxidation of EGCG resulted in quinone formation and dimer formation was observed by real time mass spectrometry combined with tandem mass ion mapping
- Discovered that autooxidation occurs when garcinol was added to a silk cultured (HT29 and HCT-116 colon cancer cells) system and the autooxidation of low concentrations (<1 μM) of garcinol stimulated the growth of the cell lines; however, higher concentrations of garcinol inhibited cell growth
- Developed a highly sensitive mass spectrometric method for 50-plex genotyping of CYP2A13 genetic variations
- Characterized the functional significance of most reported missense CYP1B1 genetic variations in the metabolism of PhIP, a common food-derived carcinogen
- Discovered that hTM5-specific IgG autoantibodies present in ulcerative colitis sera destroy LS180 cells ([^{51}Cr]-labelled colonic adenocarcinoma cells) by antibody and complement-mediated lysis which suggest an autoantigenic role of hTM5 and anti-hTM5 antibodies in the pathogenesis of ulcerative colitis
- Determined that Selenium given intravenously is safe in combination with standard chemotherapy for the treatment of gynecologic malignancies
- Demonstrated that serum levels of CD44 predict response to chemotherapy in patients with ovarian cancer

- Showed methicillin-resistant staphylococcus aureus prevalence on stethoscopes of EMS professionals
- Established ultrasound utilization for difficult intravenous cannulation by ground advanced life support units
- Established a quick and easy method for determination of pre-hospital blood loss using the MAR Method
- Determined febrile seizure patients can be safely transported by basic life support EMTs
- Discovered early increases in microcirculatory perfusion are associated with reduced multi-organ failure at 24 hours in patients with sepsis
- Participated in development of guidelines for worker surveillance under a national disaster response plan
- Demonstrated long-term symptomatic, psychological, and productivity outcomes among office workers near the World Trade Center terrorist attack
- Demonstrated limited sensory and cognitive effects of acute controlled exposures to hydrogen sulfide gas
- Demonstrated that psychological characteristics are risk factors for building-related symptoms in a human controlled exposure model
- Documented that ambient air pollution changes lead to measurable increases in right heart pressures in humans with heart failure using an implanted right ventricular pressure transducer
- Completed studies showing that healthy adults with a GSTM1 null polymorphism have lower baseline heart rate variability
- Demonstrated that World Trade Center responders with obstructive sleep apnea have unique characteristics compared with the general sleep apnea population
- Continued eNOS polymorphism-specific recruitment and study of endothelial and platelet effects of acute diesel emission inhalation in healthy subjects
- Reported on the mental health morbidity and social function impairment in World Trade Center Rescue, Recovery, and Cleanup Workers
- Reported on occupational stress and depression in Korean workers
- Completed data collection on a pilot study of diabetics exposed to New Jersey Turnpike traffic pollution
- Studied the responses of 5 (out of 20 planned) asthmatic subjects following diesel emissions exposure
- Continued field studies of solvent-exposed construction workers using neurobehavioral and fMRI outcomes

- Initiated field studies of lead-exposed construction workers examining HPA axis and blood pressure outcomes to stress
- Continued reporting on studies of stakeholders and policy issues related to former U.S. Department of Energy sites and their workers
- Demonstrated environmental exposures to and effects of radionuclides in Alaska
- Demonstrated contamination and risks to consumers of commercial fish by mercury
- Re-initiated studies of chromium pollution and human exposure in New Jersey
- Demonstrated that primary care practices that use nursing or health educator staff to provide behavioral counseling to patients on topics such as diet, exercise or tobacco use were significantly more likely to have higher colorectal cancer screening rates
- Found that family practices employing nurse practitioners performed better than those with physicians only and those employing PAs, especially with regards to diabetes process measures
- Enhanced the primary care research network features to include a successful CEU program for nurses
- Developed a conceptual model of how healing relationships develop and are maintained between clinicians and patients
- Demonstrated that patient navigation is an effective strategy to improve timely diagnostic resolution, significantly decrease anxiety, and increase patient satisfaction among urban minority women with abnormal mammograms
- Developed and published a knowledge management model to help health care clinicians manage their practices and ultimately administer quality care to their patients
- Collaborated on evaluation of TransforMed, a project designed to “transform” family medicine practices to meet the future health care needs of the nation
- Identified an efficient strategy for integrating highly relevant and potentially persuasive health behavior advice into illness visits
- Initiated a blinded, randomized controlled trial to test the effect of guided breathing intervention in uncontrolled hypertensives
- Demonstrated that relatively simple systems can be used to identify and track patient information and improve diabetes care
- Developed a model of social capital to enhance relationships within primary care practices that promote organizational success and improve patient care outcomes
- Demonstrated that severely-obese women were less likely to have had mammography within 2 years, after adjusting for socio-demographic variables, healthcare access, health behaviors, and co-morbidity
- Developed and tested for psychometric properties an instrument to measure organization attributes relevant to family practices

- Surveyed family physicians regarding knowledge and screening of chronic hepatitis and liver cancer and showed that they have insufficient knowledge about screening and counseling for chronic hepatitis and hepatocellular carcinoma
- Assessed the relationship between diabetes flow sheet use and diabetes patient care outcomes in the everyday practice of primary care and found that diabetes flow sheets can be used to promote better adherence to guidelines
- Studied a patient cohort from an urban university medical center and found that the worst outcome among Black women appears to be independent of the usual predictors of survival
- Expanded scope of Myocardial Infarction Data Acquisition System (MIDAS) to all cardiovascular diseases including stroke and heart failure
- Demonstrated that optimal medical therapy is superior to transplantation for the treatment of Class I, II, and III heart failure by decision analytic approach
- Reported free-breathing delayed hyper-enhanced imaging of the myocardium by application of real-time navigator echo imaging
- Correlated psychological and social factors with dyspnea in heart failure
- Reported pulmonary vein edema in a patient undergoing coronary artery bypass graft surgery and concomitant radiofrequency ablation for chronic atrial fibrillation
- Identified association of P-wave amplitude and pulmonary artery pressure in scleroderma
- Questioned use of anticoagulation in patients with chronic heart failure
- Described long-term angiographic follow-up in patients with normal or minimally narrowed coronary arteries
- Compared contrast-induced nephropathy in patients with chronic kidney disease using low osmolar and iso-osmolar media
- Reported successful treatment of *Nocardia nova* bacteremia and multilobar pneumonia with clarithromycin in a heart transplant patient
- Emphasized treating hypercholesterolemia and hypertension based on lifetime global risk as a new approach to primary prevention of cardiovascular disease
- Compared rate versus rhythm control for atrial fibrillation in patients with left ventricular dysfunction
- Reviewed critically the evidence for cardiovascular protection using beta-blockers
- Reported associations of plasma fibrinogen levels with established cardiovascular risk factors, inflammatory markers and other characteristics
- Described heart rate and blood pressure response in adult men and women during exercise and sexual activity

- Established a novel in-vitro model of transformation of benign Barrett's cells following exposure to acid and bile over 56 weeks. Using this model, novel therapeutic and chemopreventive strategies can be explored for the treatment of adenocarcinoma of the stomach
- Received a new patent on "Tropomyosin isoforms, and diagnostic and therapeutic uses therefor" on October 23, 2007
- Discovered that an autoantibody against human tropomyosin isoform 5 that is present in ulcerative colitis serum can destroy colon epithelium by complement mediated lysis. This provides a pathogenetic mechanism of UC against a specific host cell target
- Described, in a joint effort with investigators from Case Western University, the use of Artificial Neural Networks to improve care of patients with acute lower GI hemorrhage
- Established benchmarks for EUS-guided Fine Needle Aspiration as one of the members of the multi-center task force for the American Society of Gastrointestinal Endoscopy
- Discovered GEC-Targeted HO-1 Over-expression Reduces Proteinuria in a model of anti-GBM antibody mediated rapidly progressive glomerulonephritis
- Discovered Naturally Occurring Methylarginines Increase Glomerular Albumin Permeability (Palb) by Causing NO/O₂- Imbalance
- Discovered Endothelin-1 activates small GTPases Rap1 and R-Ras in rat glomerular epithelial and mesangial cells
- Discovered Biocompatible/biodegradable nanoparticles are cleared by the reticuloendothelial system and the kidney
- Observed that management of hyperphosphatemia in dialysis patients is frequently contrary to national K/DOQI consensus guidelines
- Demonstrated that a novel dialyzer reprocessing method restores dialyzer clearance properties back to original levels
- Demonstrated that ferric gluconate improves hemoglobin and reduces erythropoietin requirements in anemic hemodialysis patients with high serum ferritin and low transferrin saturation
- Described the disproportionate number of new drugs being approved with indications for patients with chronic kidney disease
- Investigated the efficacy of an investigational erythropoietic agent in chronic hemodialysis patients and in chronic peritoneal dialysis patients
- Demonstrated that a novel dialyzer reprocessing method restores dialyzer clearance properties back to original levels
- Determined that Selenium given intravenously is safe in combination with standard chemotherapy for the treatment of gynecologic malignancies
- Demonstrated that serum levels of CD44 predict response to chemotherapy in patients with ovarian cancer

- Contributed to the science of the efficacy, safety and patient acceptance of extended cycle combination hormonal contraception
- Studied the safety and efficacy of Bazedoxifene/conjugated estrogens combinations in postmenopausal women with vaginal dryness
- Contributed to the science on the effects of the progesterone intrauterine device in the treatment of menorrhagia
- Compared the efficacy of hormonal oral contraceptives to placebo in the treatment of menorrhagia
- Explored the safety, efficacy and side effects by way of a low dose combination oral contraceptive pill for 21 days followed by seven days of the hormone ethinyl estradiol instead of seven days of a placebo as in a standard birth control pill
- Examined a new technique of evaluating cervical dysplasia in women with abnormal Pap screenings
- Explored the safety profile and the efficacy of flibanserin in treatment of premenopausal women with hypoactive sexual desire disorder
- Evaluated the efficacy and safety of 2 low-dose regimens of vaginal conjugated estrogen cream in postmenopausal women with atrophic vaginitis
- Determined the physiological pattern of the bone reabsorption marker serum CTX (sCTX) in relation to the menstrual cycle of healthy pre-menopausal women
- Assessed the efficacy, safety, tolerability and dose range of PD-0299685 in the treatment of moderate to severe menopausal vasomotor symptoms
- Evaluated the efficacy and safety of ospemifene in the treatment of postmenopausal vulvar and vaginal atrophy
- Studied compliance and adherence of weekly vs. monthly bisphosphonate drug use in menopausal women
- Investigated new intravenous medication for the treatment of osteoporosis
- Investigated the use of the hormonal intrauterine device for the control of abnormal uterine bleeding
- Investigated a new technique to detect abnormal cervical cells of women with abnormal PAP smears
- Investigated the efficacy of a newly formulated oral contraceptive for women
- Collaborated with the division of hematology regarding the incidence of bleeding disorders in women and female adolescents
- Reported that Ibandronate reduces fracture rates in patients less than 60 years with low lumbar spine bone mineral density

- Published clinical data that better adherence to bisphosphonate therapy is associated with reduced nonvertebral fracture risk
- Described that women are more satisfied with a weekly bisphosphonate transitioned to once-monthly treatment
- Assisted in developing a screening tool for women presenting with unexplained menorrhagia
- Reported data from a randomized comparison of self-management, amitriptyline and amitriptyline plus triamcinolone in reducing vulvar pain
- Reported the efficacy of a low oxalate diet vs. a high fiber diet and sexual function in women with vulvodynia
- Described the efficacy of tolterodine extended release (TER) for patient-reported outcomes (PROs) in sexually active postmenopausal women with overactive bladder (OA) and urgency urinary incontinence
- Presented data on two low dose regimens of conjugated estrogen vaginal cream in women with atrophic vaginitis
- Reported on the efficacy of tolterodine extended release for overactive bladder symptoms in sexually active postmenopausal women
- Published data on the efficacy of low-dose estradiol vaginal tablets in the treatment of atrophic vaginitis
- Reported on the need for a bladder history in premenopausal women who present with sexual dysfunction
- Reviewed the effects of dietary complex carbohydrates and low glycemic index/load and their impact on cardiovascular disease risk factors
- Published the diagnostic challenges of managing low bone mass in the geriatric patient
- Reviewed non-hormonal contraceptive choices for women who choose not to use hormonal contraceptive therapy
- Reported on the management of menopausal symptoms in women with previous severe deep venous thrombosis during pregnancy
- Demonstrated that the risk of thromboembolic disease is increased in siblings and parents of women with placental abruption
- Described how placental abruption may be mediated in part by acute and chronic inflammation
- Demonstrated that placental abruption and low birth weight is at least partially mediated by thrombophilia status
- Reported on the effect of cigarette smoking on placental abruption histology

- Completed a comprehensive review of the recurrence of fetal growth restriction and outlined potential strategies for prevention of recurrence
- Continued research using a new method for creating nomograms of fetal biometry to describe normal fetal size and development throughout gestation
- Demonstrated that the “protective” effect of smoking during pregnancy against preeclampsia is dependent upon reduced fetal growth
- Described the relationship of several polymorphisms in the folate metabolism pathway to placental abruption
- Continued enrolling subjects in a study examining the relationship of fetal growth restriction and inherited thrombophilias
- Continued research on the relationship of various phthalates and pesticides between maternal and fetal compartment at the time of delivery
- Published a description of the epidemiology of preterm birth and its clinical subtypes
- Described the recurrence of preterm birth in relation to the gestational age at the initial preterm birth
- Demonstrated that the reduced risk of pregnancy-induced hypertension due to smoking is mediated through birth weight
- Described the contribution of race to recurrence of stillbirths
- Published a comprehensive review of placental abruption
- Evaluated if maternal race is a contributor to stillbirth recurrence
- Identified that missing paternal characteristics is a significantly associated with increased risk of uteroplacental bleeding disorders, suggesting differential reporting
- Described that etiology of placental abruption varies significantly at preterm and term gestations
- Evaluated recurrence of spontaneous and medically indicated preterm births
- Published the associations between acute and chronic respiratory diseases in pregnancy and risk of placental abruption
- Distinguished the physiologic or pathologic contributions to black-white disparities in fetal growth in the United States
- Described the epidemiology of indicated preterm birth
- Reconciled the high rates of preterm and post-term birth in the United States as being driven by an artifact of gestational dating
- Carried out research to define the clinical condition of “ischemic placental disease”
- Established epidemiologic recurrence risks associated with ischemic placental disease

- Completed a review manuscript on medically indicated preterm birth and ischemic placental disease
- Evaluated the associations between polymorphisms in methionine synthase reductase and betaine-homocysteine S-Methyl-transferase genes and risk of placental abruption
- Examined the associations among plasma folate, reduced folate carrier gene and risk of placental abruption
- Continued research on the causes of recurrent pregnancy loss, as well as second trimester pregnancy loss
- Published a description of how mirror syndrome develops in association with a fetal sacrococcygeal teratoma
- Published a comprehensive review of placental abruption for a clinical expert opinion series and for a text on high risk pregnancy
- Completed a study evaluating rates and causes of morbidity in women receiving both antepartum and postpartum anticoagulation
- Published a comprehensive review of postpartum hemorrhage
- Reported a series of vasa previa cases and how 3-dimensional ultrasound can be used for diagnosis and management
- Completed a study examining the accuracy of fetal transcerebellar diameter for the prediction of gestational age in growth restricted and large-for-gestational-age fetuses
- Continued collaboration with Rutgers University to look at the possible correlation between transcerebellar diameter and other cranial anatomy with autism
- Continued research on critical care in the obstetrical patient
- Initiated a study evaluating minimally invasive in utero treatment for fetal twin-reverse arterial perfusion syndrome
- Reported the unusual features of a splenic ectopic pregnancy
- Initiated an outcome evaluation for first trimester aneuploidy screening
- Completed enrollment and follow-up in a multicenter study entitled “Phase III Single Masked Randomized Study to Evaluate Ranibizumab in Naïve and Previously Treated Subjects with CNV Secondary to AMD”
- Completed enrollment and follow-up in clinical drug trials entitled:
 - Open-Label Evaluation of 4 Dose Levels of Cland5 by Single Intravitreal Injection in Patients with Wet AMD
 - Phase II, Double-Masked, Controlled Dose Comparison Study of Cand5 for Intravitreal Injection for the Treatment of Subfoveal Choroidal Neovascularization Associated with Wet Age-Related Macular Degeneration

- Phase II, Pharmacokinetic, Randomized, Double-Masked, Controlled, Dose Comparison Study of Cand5 for Intravitreal Injection for the Treatment of Diabetic Macular Edema
 - Combined Photodynamic Therapy Using Verteporfin and Triamcinolone Acetonide for the Treatment of CNV in AMD” (VISTA)
- Completed data entry into:
 - Registry of Visudyne® Age-Related Macular Degeneration (AMD) Therapy
 - The InSight CNV Registry-Longitudinal database to capture patient demographics and treatment outcomes in patients with CNV due to AMD
- Published article, Protease inhibitor associated mutations compromise the efficacy of therapy in human immunodeficiency virus - 1 (HIV-1) infected pediatric patients: a cross-sectional study in *AIDS Research and Therapy* 2007, 4:15doi:10.1186/1742-6405-4-15
- Evaluated the safety and tolerability of a combination tablet containing both sumatriptan succinate and naproxen sodium in the long term treatment of migraine in adolescents 12 to 17 years old
- Investigated the association between a child’s weight and asthma in conjunction with “A New Weigh”, a 12-week, multidisciplinary weight management program designed for overweight children between ages 3 to 18 years, being conducted by the Adolescent Division at RWJUH
- Reported a detailed clinical case of successful tobacco dependence treatment in schizophrenia
- Discovered higher nicotine and carbon monoxide levels in menthol cigarette smokers with and without schizophrenia
- Reported on the CHOICES Program, an innovative program using peer counselors to address tobacco
- Reported less cue-induced craving in smokers with schizophrenia using nicotine nasal spray compared to nicotine patch
- Reported on patients' rights, public health, and policy issues on eliminating tobacco use in mental health facilities
- Demonstrated a relationship between task persistence and history of quitting smoking, plans for quitting smoking, and current smoking status in adolescents
- Reported pilot results of a 10-session cognitive-behavioral treatment for depression in Parkinson’s disease
- Developed a new measure for assessing social risk factors for depression
- Demonstrated that ramelteon has a positive impact on menopausal insomnia

- In a multi-site study conducted in three geographically distinct regions of the United States, discovered language-driven discrepancies in the diagnosis of major depression in Latinos
- Reported on the perceived stigma of antidepressants among Latino outpatients
- Developed a culturally-enhanced intervention to improve antidepressant adherence among Latinos
- Reported on the effectiveness of a mentoring-based conference for stimulating career development in Latino mental health research
- Demonstrated that biofeedback is highly motivational for patients with multiple unexplained symptoms, and that it improves their physical symptoms and also improves comorbid depression
- Showed that some highly experienced airplane pilots hyperventilate when faced with difficult flight tasks in a flight simulator
- Showed that heart rate variability biofeedback can help decrease signs and symptoms of dysautonomia in a tetraplegic patient with these symptoms
- Completed a pilot study showing the effectiveness of a psychological intervention for patients with comorbid asthma and panic disorder
- Demonstrated, in the first NIH-funded controlled trial of depression in Parkinson's disease, the superiority of nortriptyline over paroxetine and placebo
- Demonstrated that successfully treating depression in patients with Parkinson's disease improves their quality of life and their cognition
- Demonstrated that active antidepressant medication is superior to placebo in maintaining response in patients with Parkinson's disease and depression
- Investigated the roles of a BRCA2 interacting protein BCCIP in the protection of genomic integrity and cell cycle regulation
- Investigated association of RAD52 with replication blockage
- Examined alternations of BRCA2-interacting proteins in cancer
- Investigated the role that BCCIP plays in regulation of homologous recombination repair and breast cancer
- Assessed differences in the frequency of mutations in BRCA1 and BRCA2 among white, African American and Korean women
- Determined whether patients with polymorphisms in SNP309 have higher rates of ipsilateral breast cancer or contralateral breast cancer events
- Investigated the 53BP1 protein in breast cancer as it relates to radiation oncology and the management of breast cancer

- Investigated development of radiation beam gating technology to improve the management of organ motions during radiation treatment
- Developed a deformable model-based prostate registration algorithm to potentially improve the quality of prostate radiotherapy
- Developed an optimization strategy to utilize simple translational corrective shifts to compensate for complicated rotational and deformable deviations in image-guided radiation therapy
- Completed dosimetric analysis comparing three methods of whole brain radiotherapy
- Developed a novel phase I trial examining the feasibility of partial breast irradiation using fiducial markers
- Initiated development of a Radiation Oncology Practice Quality Initiative using the ACR Appropriateness criteria
- Investigated two methods of radiotherapy for pancreatic malignancies
- Developed protocol for phase I/II radiotherapy dose escalation study in locally advanced pancreatic cancer using a simultaneous intensity modulated boost with concurrent gemcitabine
- Investigated two methods of radiotherapy to the intact breast in the setting of breast conservation
- Completed enrollment of subjects for investigation with ACRIN on whole body MRI in the evaluation of pediatric malignancies and in an open-label study to evaluate the efficacy and safety of alfineprase in subjects with occluded central venous access devices
- Completed funded investigation on suppression of calcifications in computed tomographic angiography
- Received IRB approval to begin funded project on quantification of calcification of carotid artery plaque with dual-energy CT and to participate in a funded patient registry database to gather patient demographics, primary and secondary diagnoses, treatment details and complications in order to evaluate and analyze patient outcomes from SIR-Spheres® therapy
- Submitted for IRB approval project on perfusion ct for monitoring response-to-therapy in advanced or metastatic breast cancer
- Demonstrated intra-operative use of Bupivacaine for tumescent liposuction
- Demonstrated impact of Tenascin c on angiogenesis
- Developed a clinical trial to evaluate a novel vaccine strategy for treating patients with locally advanced pancreas cancer
- Found that isoflavone intake was associated with a reduction in endometrial cancer risk in lean women

- Completed a statewide database of nutrition and physical activity programs in the state of New Jersey
- Demonstrated the ability to use gold nanoparticles to enhance noninvasive radiofrequency thermal ablation of human gastrointestinal cancer cells
- Discovered that melanomas express multiple metabotropic glutamate receptors
- Found that blockade of metabotropic glutamate receptor 1 results in decreased proliferation and apoptosis of melanoma cells in vitro
- Discovered that metabotropic glutamate receptors are expressed by human colon, breast, and non-small cell lung cancers
- Demonstrated that administration of Riluzole can inhibit growth of human melanoma xenografts
- Showed that orally administered Riluzole can cause shrinkage of melanomas demonstrable both clinically and by PET scan
- Demonstrated the feasibility of differentiating benign and malignant breast lesions by mechanical imaging
- Showed that improved wire localization techniques can be used to improve breast conservation rates in women with localized breast cancer
- Identified mechanism in tumor microenvironment by which tumors “escape” immune elimination
- Developed a novel vaccine strategy for treating patients with locally advanced pancreas cancer
- Investigated the relationship between polymorphisms of MDM2 and MIF on outcome variables in critically-ill patients
- Continued to evaluate the differential regulation of immune cell receptors and their relationship to polymorphisms in human volunteers administered standard reference endotoxin in vivo and in critically ill patients
- Presented poster entitled “Current Trends & Treatment of Aneurysms at UMDNJ-RWJUH1999-2006” at Research Fellowship Program Poster Session
- Established Surgical Outcomes Research Group
- Presented “Surgical Outcomes Research and Vascular Surgery” at UMDNJ-RWJMS
- Collaborated with pre-med student in a poster presentation entitled “Study of Carotid Artery Stenosis Using an Ex-Vivo Model”
- Presented findings on:
 - Longitudinal Outcomes of Endovascular and Open Abdominal Aneurysm Repair in the General Community

- Disparities in the Management and Outcomes of AAA: A Population Level Analysis of Socio-Demographic Factors
- Endovascular Repair of Abdominal Aortic Aneurysms: Trends in Utilization, Mortality and Cost of Repair
- A Population Level Analysis: The Influence of Hospital Teaching Status on Management and Outcomes of AAA
- Trends in Postoperative Sepsis: A Population-Based Analysis of Occurrence, Severity, Mortality, and Associated Pathogens
- Completed a class I clinical study demonstrating that the two main FDA approved medications for treatment of relapsing forms of multiple sclerosis have similar efficacy in preventing the development of new/active brain lesions
- Found that the vast majority of new brain lesions in multiple sclerosis heal over time without leaving black holes
- Described the efficacy of Cladribine for treatment of refractory forms of relapsing multiple sclerosis
- Completed a five year study funded by the National Institutes of Health on sleep and cytokines
- Discovered a new form of orthostatic intolerance whereby patients with Chronic Fatigue Syndrome hyperventilate when they stand
- Demonstrated the occurrence of autonomic dysfunction among stroke patients
- Reported on an asymmetric phenotype associated with rare myelin protein zero mutation
- Reported on a novel approach in electrodiagnostic profiling of demyelination in diabetic neuropathy
- Reported the beneficial effects of Rituxmab in patients with anti-MAG neuropathy
- Reported that small fiber neuropathy may occur after vaccination
- Developed a logistic-based systolic model to provide additional hemodynamic measurements using the esophageal Doppler monitor
- Demonstrated that a bispectral index scale monitor is also suitable for the patients with mental retardation
- Identified the effect of head elevation on intraocular pressure and optic nerve imaging in the prone position in healthy volunteers
- Demonstrated that high risk surgical procedures and female gender have a strong correlation with perioperative hyperglycemia

- Demonstrated that race and less formal education were significant predictors of pre-term and small-for-gestational-age birth, but higher blood lead concentrations during pregnancy were not in 877 New York City pregnant women
- Described tumoral calcinosis as an unusual cause of neck pain in the long term dialysis patient
- Showed the utility of PET/CT scanning on patients with primary lymphoma of bone
- Demonstrated the functional outcome of the early experience with non-invasive expandable endoprosthesis
- Demonstrated the efficacy of IVC filters and mechanical compression for the prophylaxis of venous thromboembolism in surgery
- Demonstrated the relationship of B-HCG levels in a woman with osteosarcoma of the distal femur
- Described a new technique for multiplanar correction of proximal femoral deformities in children with slipped capital femoral epiphyses
- Compared the accuracy of intra-operative assessment of limb alignment with peri-operative standing radiograph in patients with lower limb deformities
- Demonstrated upper extremity symptoms in a substantial percentage of patients at long term follow-up after cervical fusion in the setting of acute spinal cord injury
- Determined that patients with temporomandibular disorder pain involving the masticatory muscles are likely to have altered central nervous system processing of painful stimuli and that this altered central sensitivity is largely confined to the region of clinical pain
- Demonstrated that vasomotor symptoms in perimenopausal women are not related to hormonal patterns of their menstrual cycles
- Developed an effective methodology to critically examine the impact of health outreach services on health care utilization
- Developed an effective methodology to critically examine the impact of health outreach services on conveying knowledge about asthma to the Latino community
- Reported on the outcomes in subjects with diabetes mellitus with technosphere/insulin or usual antidiabetic treatment in subjects without abnormalities in glucose control
- Reported on the efficacy and safety of norditropin in adult patients on chronic haemodialysis
- Demonstrated that patients with normal findings on screening colonoscopy are also compliant with other screening tests and return for follow up with the encouragement of their physician
- Demonstrated that sex is a predictor of mortality after hip fracture, even after controlling for other predictors of mortality

- Discovered that older HIV+/AIDS patients can have positive outcomes in terms of disease management, with appropriate treatment, regardless of when they were diagnosed or whether they were older than 50 when diagnosed
- Continued collecting data from nursing home administrators statewide about policies regarding HIV+ elderly in the nursing home setting
- Continued collecting data on obesity assessments for the elderly, comparing Body Mass Index, waist circumference, and waist to hip ratio
- Continued collecting data on the knowledge, attitudes, and experience of inner city elderly with their primary care physicians, regarding osteoporosis
- Established an enhanced clinical trials program incorporating the Southern Campus and Central Campus of UMDNJ under the New Jersey Institute for Successful Aging (NJISA)
- Estimated the need for psychiatric services if an Avian pandemic were to occur in the United States
- Surveyed psychiatric inpatients about smoking habits
- Determined changes in sleeping patterns and appetites in psychiatric outpatients with a major depressive disorder
- Ascertained efficacy of quetiapine for treating outpatients with bipolar disorders
- Compared effectiveness of combined parent-child and parent-only cognitive behavioral treatments for offending parents and children in cases of child physical abuse
- Identified dimensions of sexually abused adolescents' self-concepts
- Investigated the construct validity of the Trauma Symptom Checklist for Children with sexually abused children
- Estimated the amount of general factor saturation underlying the responses of psychiatric outpatients with anxiety disorder to the Beck Anxiety Inventory
- Determined the severity of self-reported depression in mothers of sexually abused children
- Determined that mean age of diagnosis and the female:male ratio for patients with Multiple Sclerosis in a small rural farming community was higher than the national mean. Race and initial presenting symptom are consistent with national data
- Determined that physicians need to do a better job with women's health issues, including weight management, depression and anxiety, smoking, sexual pain and dysfunction and bone health, both to screen for and educate women regarding their health risks
- Determined that educating patients with knee osteoarthritis about lifestyle changes, including weight loss, exercise thirty minutes at least three times per week, not smoking, and eating a minimum of three servings of omega-3 containing fish or fish oil could potentially improve their osteoarthritis pain and function

- Demonstrated that children and parents who are at-risk for child physical abuse and participating in Combined Parent-Child CBT:
 - reported pre- to post-treatment changes in the use of physical punishment, parental anger towards their children, consistent parenting, and children's posttraumatic stress symptoms and behavioral problems
 - had greater improvements in total posttraumatic symptoms and positive parenting skills, respectively at posttest than the group where only the parents received treatment
- Demonstrated that the group where only the parents received treatment reported using less corporal punishment to control their children's behavior at posttest than the parents in the Combined Parent-Child condition
- Examined the psychometric properties of the Beck Youth Scale for adolescents who have experienced child sexual abuse and discovered that the measure has clinical utility with this population and that self-concept is an important variable to consider when treating adolescents with an abuse history
- Discovered that MIP1a is elevated prior to radiographic evidence of bone loss in localized aggressive periodontitis and could be an early biomarker of bone loss in localized aggressive periodontitis
- Identified a substance in saliva of individuals susceptible to localized aggressive periodontitis that inhibits gram positive caries-producing bacteria
- Discovered that subjects with atypical odontalgia or persistent trigeminal deafferentation pain, demonstrated sensory alteration for cold after-sensation, indicating a central sensitization mechanism
- Discovered that HIV+ patients with lower CD4+ cell counts showed a greater prevalence of orofacial pain
- Discovered that sensory hypoaesthesia and hypersensitivity co-exist in the chronic whiplash condition
- Discovered that topical medication as a single treatment or in combination with systemic medication can reduce orofacial neuropathic pain severity
- Detected a difference in the proteome of HPV induced oral wart specimens between HIV-infected and non HIV-infected populations using a novel method to analyze the protein content of formalin-fixed archival specimens
- Showed trends in biochemical and anthropomorphic parameters within the final year of life of deceased adults with a diagnosis of cancer
- Contributed chapter, *Overview of Mind-Body Therapies* in Complementary Therapies for Physical Therapy: A Clinical Decision-Making Approach, (J. Deutsch and E Anderson, Eds.), St. Louis, MO: Saunders Elsevier, 2008
- Co-author on submitted manuscript regarding a National Institutes of Health-funded collaborative pilot randomized controlled trial on external Qigong Therapy for Osteoarthritis for the Knee suggesting Qigong provides improvement in function and pain relief.

- Co-investigator on study demonstrating a trend toward improvement in pain in a National Institutes of Health-funded pilot study of IV Micronutrient Therapy for Fibromyalgia Syndrome.
- Demonstrated positive impact of an in person and web-based worksite wellness intervention on two UMDNJ campuses
- Explored the effect of hypocaloric enteral feeding on clinical and economic outcomes among patients admitted to a medical intensive care unit
- Demonstrated the positive impact of self-management using technological applications on the quality of life among persons diagnosed with type 2 diabetes
- Demonstrated the positive impact of instituting an enteral feeding protocol in a medical intensive care unit on patient's length of stay and clinical outcomes
- Demonstrated the impact of medical nutrition therapy on clinical and patient outcomes in patients with cancer at the Cancer Institute of New Jersey
- Completed peer-delivered illness management program for persons with serious mental illness. Preliminary analysis indicates that people in recovery can be as effective as mental health professionals in illness management training
- Demonstrated that successful participants in supported employment services who have a serious mental illness already have high levels of social support in contrast among other individuals with similar diagnoses. In addition, they are interested in unobtrusive forms of support
- Demonstrated that the readiness for employment of persons with serious mental illness can be validated and reliably predicted in terms of both predictive and construct validity
- Demonstrated that the stigma about mental illness among high school and college students can be changed significantly through a brief presentation based on factual knowledge and personal experience when presented by persons with mental illness themselves. Positive expectations increase, negative expectations are lowered, pity is reduced
- Demonstrated that human capital factors, primarily education and work history, predict the re-employment of persons with mental illness at the same rate as other persons when demographic variables are controlled for. Illness factors contributed minimally to the prediction
- Demonstrated that non-adherence to psychotropic medication regimens is influenced by a variety of factors including distaste for the patient role, and complicating side effects as reported in interviews of persons with psychotic disorders

EDUCATIONAL RESEARCH

- Examined the impact of providing free, broadband internet-connected information kiosks in conveying health information to inner city communities across the United States
- Demonstrated that bilingual staff and materials are essential in communicating with the regional Latino community about asthma

- Demonstrated that 3rd year medical student attitudes and opinions about providing care to medically underserved communities did not significantly change in a positive direction after completion of a two-week community service rotation due to a “ceiling effect” of pre-survey positive attitudes
- Demonstrated that Web CT modules were effective in improving Family Medicine Residents’ knowledge in Information Mastery (medical informatics and evidence based medicine)
- Demonstrated that “Introverts” on the Myers Briggs Personality Type Inventory scored higher on cultural competency assessment than “Extroverts”; and “Feelers” scored higher than “Thinkers’
- Demonstrated that a standardized patient encounter on postpartum depression does strengthen the traditional didactic medical training and enhances the learning process
- Discovered that despite chronic non-malignant pain (CNMP) being a common presenting complaint, most physicians feel they need more training in the treatment of CNMP including additional training in non-opioid adjuvant treatments
- Explored perceived benefits of graduate degrees among a sample of United States Registered Dietitians
- Explored characteristics and roles in ethical decision-making among Registered Dietitians who participate on a bioethics committee or as a Bioethics consultant
- Explored dietary supplement use among high school students in a central New Jersey School district
- Explored the effect of economic status on BMI and body composition in elementary school children
- Explored the effect of a college wellness program on student clinical outcomes
- Demonstrated the benefit of a one hour carbohydrate counting education program on pediatric acute care nurses’ knowledge of carbohydrate counting
- Pilot-tested a new high school curriculum module, “Using Biology and Genetics to Understand Cancer,” with 34 high school teachers and more than 1,000 students

OTHER RESEARCH

- Investigated the prevalence of early hearing loss in children with existing comorbid conditions who fail newborn/initial hearing screening; the impact of existing comorbid conditions on follow-up of failed initial hearing screenings; the experience and needs of families of children with early hearing loss and comorbid conditions; and the knowledge and experience of audiologists in evaluating and providing services to children with early hearing loss and existing comorbid conditions, in order to understand the impact and interaction of having a child with early hearing loss and an existing comorbid condition
- Investigated technical assistance providers’ experiences implementing universal behavioral interventions with public schools

- Documented common barriers present in schools when implementing universal behavioral interventions and the need for additional technical assistance support based on the presence of barriers
- Investigated the effectiveness and sustainability of a comprehensive approach to behavior support with families of children with developmental disabilities and problem behavior
- Demonstrated that for spouse caregivers who were in a marriage characterized by low cohesion, higher caregiver burden exacerbated depressive symptomatology over time
- Demonstrated that the patient and spouse's characteristics are related to the quality of life of End Stage Renal Disease(ESRD) patients, their spouses, and spouse's ratings of patient's quality of life
- Showed that the Dyadic Adjustment Scale (DAS) is a reliable, valid measure of marital quality in older couples in which one partner has a chronic illness and that the subscales each provide unique information about the marriage
- Found that caregiver burden and marital closeness predicted relief from caregiver role and post-loss grief was predicted by gender, health and, marital closeness in bereaved spouses
- Demonstrated that caregiver burden and satisfaction maintain significant associates with spouses' depression and that burden has a cross-partner effect on patient's depression
- Discovered that caregiving dyads coping with ESRD show high levels of stability in depressive symptoms over time, yet variability within dyads is greater than between dyads
- Demonstrated that there is more stability than change in patient preferences regarding continuation of dialysis over the course of one year indicating that it is possible to maintain the voice of the patient in end of life decisions when patients themselves are unable to do so
- Showed that spouse's positive and negative affect is associated with the other spouse's positive and negative affect over time within serious illness contexts such as ESRD
- Showed that changes in marital satisfaction are associated with changes in feelings of burden and benefit, and marital cohesion predicts decreases in care-related benefits in the context of ESRD
- Found evidence that caregivers recruited using volunteer sampling are significantly more burdened, less satisfied, more depressed, and provide more help to care-recipients than those recruited by random digit dialing methods and age targeted listed households
- Ascertained that listed household sampling methods produce samples of older adult populations similar to those achieved by random digit dial methods at a considerable savings
- Completed the Third Annual Trenton Spirit Walk as well as plans for the Walking Loop in the city. Evaluation data has been collected on various activities and reported to the Robert Wood Johnson Foundation

RESEARCH PROJECTS: 2007-2008

FEDERAL FUNDING

Modeling Androgen Independent Prostate Cancer in Mutant Mice; C. Abate-Shen, RWJMS; *National Cancer Institute*

Roles for MSX1 in Vertebrate Embryogenesis; C. Abate-Shen, RWJMS; *National Institute of Child Health and Human Development*

Roles of Nkx3.1 in Prostate Development and Cancer; C. Abate-Shen, RWJMS; *National Cancer Institute*

Integrated Curriculum in Patient Centered and Culturally Competent Care; J. Afran, RWJMS; *Health Resources and Services Administration*

Epidemiologic Study of Placental Abruption; C. Ananth, RWJMS; *National Institute of Child Health and Human Development*

Multiple Sclerosis: Molecular Profile of Plasmacytoid Dendritic Cells; K. Balashov, RWJMS; *National Institute of Neurological Disorders and Stroke*

Exposure to Pesticides: A Fetal Environmental Risk Factor for Parkinson's Disease; B. Barlow, RWJMS; *National Institute of Environmental Health Sciences*

Mechanism of Action of Folate Antagonists; J. Bertino, RWJMS; *National Cancer Institute*

Regulated C-MYC Destabilization During Differentiation; G. Brewer, RWJMS; *National Cancer Institute*

Expressed Bacterial Triple-Helical Products as Tissue Engineering Scaffolds; B. Brodsky, RWJMS; *National Institute of General Medical Sciences*

Structural Studies of Triple Helical Proteins; B. Brodsky, RWJMS; *National Institute of General Medical Sciences*

Defining the Effect of Mutations on Collagen Folding; M. Bryan, RWJMS; *Ruth L. Kirschstein National Research Service Award*

Molecular Mechanism of Seclp-Regulated Membrane Fusion; C. Carr, RWJMS; *National Institute of General Medical Sciences*

FOCUS-Detection of Myocardial Infarction; J. Carson, RWJMS; *National Heart; Lung and Blood Institute*

Histone Deacetylation in Oligodendrocyte Differentiation; P. Casaccia-Bonnel, RWJMS; *National Institute of Neurological Disorders and Stroke*

Role of Cell Cycle Inhibitors in Adult Neural Stem Cells; P. Casaccia-Bonnel, RWJMS; *National Institute of Neurological Disorders and Stroke*

Obstructing Androgen Receptor Activation in Prostate Cancer Cells through Post-Translational Modification by NEDDS; J. Chen, RWJMS; *United States Department of Defense*

RCT of Controlled Breathing Effects on Ambulatory BP; L. Clemow, RWJMS; *National Heart; Lung and Blood Institute*

Functional Analysis of SBP2 and Selenocysteine Incorporation; P. Copeland, RWJMS; *National Institutes of Health*

Investigation of the SBP2 Ribosome Interaction in Sec Incorporation; P. Copeland, RWJMS; *National Institutes of Health*

The Translational Control of Selenoprotein Synthesis; P. Copeland, RWJMS; *National Institute of General Medical Sciences*

The Regulation of Fibronectin Matrix Assembly in Wound Healing; S. Corbett, RWJMS; *National Institutes of Health*

Coupling of 5-HT Receptors to Neuroprotective Pathways; D. Cowen, RWJMS; *National Institute of Mental Health*

Enhancing Colorectal CA Screening Through Learning Teams; B. Crabtree, RWJMS; *National Cancer Institute*

Trial to Enhance Adherence to Multiple Guidelines; B. Crabtree, RWJMS; *National Heart; Lung and Blood Institute*

Trial to Enhance Adherence to Multiple Guidelines (Supplement); B. Crabtree, RWJMS; *National Heart; Lung and Blood Institute*

Studies of Esophageal Metaplasia Using a Novel Antibody; K. Das, RWJMS; *National Institute of Diabetes and Digestive and Kidney Disease*

PACAP Regulation of Neurogenesis and Survival; E. DiCicco-Bloom, RWJMS; *National Institute of Neurological Disorders and Stroke*

Patterns of Nurse-Physician Relationships; B. DiCicco-Bloom, RWJMS; *National Institute of Nursing Research*

The Effect of Glycolytic Modulation on Prostate Cancer; R. DiPaola, RWJMS; *United States Department of Defense*

Treating Depression in Parkinson's Disease: A New Method; R. Dobkin, RWJMS; *National Institute of Neurological Disorders and Stroke*

High Throughput Screening to Identify Antagonists of HIV-1 Latency; J. Dougherty, RWJMS; *National Institute of Allergy and Infectious Diseases*

Growth and Development of the Nervous System: Molecular Mechanisms; C. Dreyfus, RWJMS; *National Institute of Child Health and Human Development*

The Role of Neurotrophins in Oligodendrocyte Function; C. Dreyfus, RWJMS; *National Institute of Neurological Disorders and Stroke*

Critical Research Issues in Latino Mental Health; J. Escobar, RWJMS; *National Institute of Mental Health*

MUPS in Primary Care Research; J. Escobar, RWJMS; *National Institutes of Health*

Peptide Deformylase Inhibitor LBM415 for Sexually Transmitted Infections; H. Fan, RWJMS; *National Institute of Allergy and Infectious Diseases*

Role of Klotho Ectodomain Release in Suppression of Aging; H. Fan, RWJMS; *National Institutes of Health*

Breast and Cervical Cancer Screening in Obese Women; J. Ferrante, RWJMS; *National Cancer Institute*

Lead Exposure; HPA Axis Dysfunction; and Blood Pressure: Hypertension Risk; N. Fiedler, RWJMS; *National Institutes of Health*

Solvent Exposure: Functional Imaging and Behavior; N. Fiedler, RWJMS; *National Institute for Occupational Safety and Health*

The Effects of Diesel Exhaust and Stress on the Acute Phase Response and Symptoms in the Chemically Intolerant; N. Fiedler, RWJMS; *United States Department of Defense*

Transcription Cofactors of the Thyroid Hormone Receptor; J. Fondell, RWJMS; *National Institute of Diabetes and Digestive and Kidney Disease*

Collaborative Systems for Analyzing Tissue Microarrays; D. Foran, RWJMS; *National Institutes of Health*

Image Mining for Comparative Analysis of Expression Patterns in Tissue Microarrays; D. Foran, RWJMS; *National Library of Medicine*

Pathminer: Web Telemicroscopy and Intelligent Databases; D. Foran, RWJMS; *National Library of Medicine*

BRCA1 and X Chromosome Inactivation; S. Ganesan, RWJMS; *National Cancer Institute*

Chromoaome Architecture: Cohesion of Transcriptionally Silenced Domains; M. Gartenberg, RWJMS; *National Institutes of Health*

Chromosome Architecture and Domains of Repression; M. Gartenberg, RWJMS; *National Institute of General Medical Sciences*

A Tissue Engineered Meniscus Replacement; C. Gatt, RWJMS; *National Institute of Arthritis and Musculoskeletal and Skin*

Functional Analysis of Bf1-1/A1 in Apoptosis and Oncogenesis; C. Gelinas, RWJMS; *National Cancer Institute*

Occupational Medicine Residency Training and Research; M. Gochfeld, RWJMS; *National Institute for Occupational Safety and Health*

Mechanisms of Angiogenesis Inhibition by a Homeobox Gene; D. Gorski, RWJMS; *National Institutes of Health*

Effect of Caffeine on UVB-Induced Skin Cancer; A. Gottlieb, RWJMS; *National Institutes of Health*

A Phase 0 Trial of Riluzole with Resectable Stage III or IV Melanoma; J. Goydos, RWJMS; *National Institutes of Health*

Development of a Clinically Encoded Melanoma Tissue Microarray; J. Goydos, RWJMS; *National Cancer Institute*

Validation of GRM1 as a Therapeutic Target in Melanoma; J. Goydos, RWJMS; *National Cancer Institute*

Non-Canonical Wnt Signaling and Cell Motility; R. Habas, RWJMS; *National Institute of General Medical Sciences*

Wnt Signaling in Cellular Motility; R. Habas, RWJMS; *National Science Foundation*

Induction of Autophagy in Human Macrophages by Lipopolysaccharide; B. Haimovich, RWJMS; *National Institute of General Medical Sciences*

Regulation of Multidrug Resistance Phenotype; W. Hait, RWJMS; *National Cancer Institute*

The Role of Co-Morbid Mental Disorders in Lyme Disease; A. Hassett, RWJMS; *National Institute of Mental Health*

Regulation of Contraction in Muscle and Nonmuscle Cells; S. Hitchcock, RWJMS; *National Institute of General Medical Sciences*

Role of Wound Provisional Matrix in Endothelial Function; H. Hsia, RWJMS; *National Institute of General Medical Sciences*

Gene Therapy for Prostate Cancer Using Bacterial MazF Suicide System; M. Inouye, RWJMS; *United States Department of Defense*

Propeptide-Mediated Protein Folding; M. Inouye, RWJMS; *National Institute of General Medical Sciences*

Signal Transduction by Histidine Kinases and Their Response Regulators; M. Inouye, RWJMS; *National Institute of General Medical Sciences*

Antidepressant Adherence Among Hispanics; A. Interian, RWJMS; *National Institutes of Health*

Regulatory Cells Involved in the Suppression of Active EAE; K. Ito, RWJMS; *National Institute of Neurological Disorders and Stroke*

Regulation of Cell Survival by the Rapamycin Insensitive mTOR Complex; E. Jacinto, RWJMS; *National Institutes of Health*

The Role of Autophagy in Breast Cancer Chemotherapy; S. Jin, RWJMS; *United States Department of Defense*

The Role of Autophagy in the Age Related Mitochondrial Deterioration; S. Jin, RWJMS; *National Institute on Aging*

The Role of Autophagy in Tumorigenesis; S. Jin, RWJMS; *National Institutes of Health*

Molecular Basis for Antibiotic Specificity; M. Kaul, RWJMS; *National Institute of Allergy and Infectious Diseases*

Automated DNA Analysis System; T. Kinzy, RWJMS; *National Center for Research Resources*

Development of Selenomethionine Resistant Yeast; T. Kinzy, RWJMS; *National Institutes of Health*

Regulation of Translation Elongation Factor 1 Alpha; T. Kinzy, RWJMS; *National Institute of General Medical Sciences*

Regulators of Translation Elongation Factor 1 Alpha; T. Kinzy, RWJMS; *National Institute of General Medical Sciences*

Regulators of Translation Elongation Factor eEF1A; T. Kinzy, RWJMS; *National Institutes of Health*

Regulation of Cardiac Protein Kinase C by Redox Stress; I. Korichneva, RWJMS; *National Heart; Lung and Blood Institute*

Myotube Guidance in Drosophila Melanogaster; S. Kramer, RWJMS; *National Institutes of Health*

Study of Drosophila Heart Tube Assembly; S. Kramer, RWJMS; *National Institutes of Health*

A Molecular Target for Nutrients in the Prostate; J. Laskin, RWJMS; *National Cancer Institute*

In-Situ Activation of Antitumor Effectors; E. Lattime, RWJMS; *National Cancer Institute*

Intravesical rF-GMCSF and rF-TRICOM in the Treatment of Advanced Bladder Cancer; E. Lattime, RWJMS; *National Cancer Institute*

Mechanisms of Responses to Diesel Exhaust and Stress (RESUB); R. Laumbach, RWJMS; *National Institutes of Health*

Development of an Objective Assessment Tool for Evaluating Flight Tasks Under Simulated Conditions; P. Lehrer, RWJMS; *Federal Aviation Administration*

Developmental Effects of Prenatal Cocaine Exposure; M. Lewis, RWJMS; *National Institute on Drug Abuse*

Emotions and Behavioral Outcomes in Neglected Children; M. Lewis, RWJMS; *National Institute of Mental Health*

Maltreated Children's Emotions and Self-Cognitions; M. Lewis, RWJMS; *National Institute of Mental Health*

Novel IRES-Specific Trans Acting Factors that Modulate EV71 Translation; M. Li, RWJMS; *National Institute of Allergy and Infectious Diseases*

The Distribution of Chromium Species as a Function of Particle Size for Chromium Waste Laden Soils; P. Liroy, RWJMS; *United States Environmental Protection Agency*

Mechanism of Action of TOP2-Directed Anticancer Drugs; L. Liu, RWJMS; *National Cancer Institute*

Mechanisms of Action in Antitumor Drugs; L. Liu, RWJMS; *National Cancer Institute*

Lysosomal Enzymes and Associated Human Genetic Diseases; P. Lobel, RWJMS; *National Institutes of Health*

Novel Lysosomal Enzyme Deficient in Batten Disease; P. Lobel, RWJMS; *National Institute of Neurological Disorders and Stroke*

Novel Lysosomal Enzymes and Associated Human Genetic Diseases; P. Lobel, RWJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Hormone and Cytokine Regulation of Endotoxin Injury; S. Lowry, RWJMS; *National Institute of General Medical Sciences*

Roles of BCCIP; a BRCA2 Interacting Protein; in DNA Repair and Breast Cancer; H. Lu, RWJMS; *United States Department of Defense*

Evaluation of Palliative Prostate Cancer Among Elderly Men; G. Lu-Yao, RWJMS; *National Institutes of Health*

Metabolic Syndrome and Cancer Mortality: Mechanisms and Potential Interventions; G. Lu-Yao, RWJMS; *National Institutes of Health*

Topoisomerase IIbeta Mediated Doxorubicin Cardiotoxicity; Y. Lyu, RWJMS; *United States Department of Defense*

Bidirectional Ca Signaling Between Cell Surface and Intracellular Membranes; J. Ma, RWJMS; *National Heart; Lung and Blood Institute*

Ca Sparks in Muscle Aging and Dystrophy; J. Ma, RWJMS; *National Institutes of Health*

Role of MG29 in E-C Coupling of Striated Muscles; J. Ma, RWJMS; *National Institute on Aging*

Store-Operated Calcium Entry and Apoptosis; J. Ma, RWJMS; *National Cancer Institute*

Functional Analysis of RAD23 Protein; K. Madura, RWJMS; *National Institutes of Health*

Studies to Examine Centrin's Role in DNA Repair; K. Madura, RWJMS; *National Institutes of Health*

Molecular Genetic Regulation of Vertebrate CNS Development; M. Matise, RWJMS; *National Science Foundation*

Molecular Regulation of Neurogenesis and Cell Fate; M. Matise, RWJMS; *National Institute of Mental Health*

Engineering Nanofibrillar Matrices for Culture of Human Embryonic Stem Cells; S. Meiners, RWJMS; *United States Army Research Laboratory*

Treatment of Depression in Parkinson's Disease; M. Menza, RWJMS; *National Institute of Neurological Disorders and Stroke*

Identification and Functional Assessment of Autism Susceptibility Genes; J. Millonig, RWJMS; *National Institutes of Health*

Development of a Rapid, Inexpensive Biosensor for PSA; R. Morton, RWJMS; *National Cancer Institute*

Anti-Apoptotic Function of DJ-1 in Parkinson's Disease; M. Mouradian, RWJMS; *National Institutes of Health*

Gonadotropin Action; W. Moyle, RWJMS; *National Institute of Child Health and Human Development*

Omega 3 Fatty Acids in the Treatment of Children with Autism Spectrum Disorders; S. Novotny, RWJMS; *National Center for Complementary and Alternative Medicine*

Neurogenesis in the Non-Pigmented Retina; R. Nowakowski, RWJMS; *National Eye Institute*

Phenomic Analysis of the Murine Hippocampus and Dentate Gyrus; R. Nowakowski, RWJMS; *National Institute of Neurological Disorders and Stroke*

Analysis of Aircraft Touchdown Point and the Associated Uncertainty; M. Ouyang, RWJMS; *Federal Aviation Administration*

Molecular Characterization of the Dantrolene Binding Site; J. Parness, RWJMS; *National Institute of Arthritis and Musculoskeletal and Skin*

Nuclear Events in PTH Action in Bone Cells; N. Partridge, RWJMS; *National Institutes of Health*

Mechanism and Regulation of Transcription Initiation; S. Patel, RWJMS; *National Institute of General Medical Sciences*

Mechanistic Studies of Hexameric Helicases; S. Patel, RWJMS; *National Institutes of Health*

Complex Involved in mRNA Decay in Yeast; S. Peltz, RWJMS; *National Institute of General Medical Sciences*

Role of mRNA Decay in the Immune System; S. Pestka, RWJMS; *National Institutes of Health*

Seeing Receptor-Signal Protein Interactions in Real Time; S. Pestka, RWJMS; *National Institute of Allergy and Infectious Diseases*

Virus-Host Interactions in Eukaryotic Cells; S. Pestka, RWJMS; *National Institute of Allergy and Infectious Diseases*

An Integrated Approach to Identifying and Screening Adolescents, Reproductive Age, and Perimenopausal Age Women for Bleeding Disorder; C. Philipp, RWJMS; *Centers for Disease Control and Prevention*

Integration Prevention Services for Persons with Bleeding and Clotting Disorders; C. Philipp, RWJMS; *Centers for Disease Control and Prevention*

DNA Minor Groove-Targeting Anticancer Agents; D. Pilch, RWJMS; *National Cancer Institute*

Gene Array Analysis of Opioid System Mutant Mice; J. Pintar, RWJMS; *National Institute on Drug Abuse*

Molecular and Developmental Basis of Mental Illness; J. Pintar, RWJMS; *National Institute of Mental Health*

Regulation of Translation Elongation by a Guanine Exchange Factor; eEF1B Alpha; Y. Pittman, RWJMS; *Ruth L. Kirschstein National Research Service Award*

NM23/NDP Kinases: A New Family of DNA Repair Enzymes; E. Postel, RWJMS; *National Cancer Institute*

The Role of Amphiregulin in PTH's Action on Bone; L. Qin, RWJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Architectural Microfibrils in Bone Physiology; F. Ramirez, RWJMS; *National Institutes of Health*

Pathophysiology of Basement Membrane Zone Collagens; F. Ramirez, RWJMS; *National Institute of Arthritis and Musculoskeletal and Skin*

Skyscan 1172 Ex-Vivo Microcomputed Tomography; F. Ramirez, RWJMS; *National Center for Research Resources*

Effects of Child Health on Family Resources; N. Reichman, RWJMS; *National Institute of Child Health and Human Development*

Fragile Families and Child Health; N. Reichman, RWJMS; *National Institute of Child Health and Human Development*

Growth Control of Normal and Malignant Keratinocytes; M. Reiss, RWJMS; *National Cancer Institute*

Targeting Transforming Growth Factor Beta in Metastatic Breast Cancer; M. Reiss, RWJMS; *National Cancer Institute*

TGFB Receptor Mutations in Cancer and other Diseases; M. Reiss, RWJMS; *National Cancer Institute*

Developmental Pyrethroid Exposure and ADHD; J. Richardson, RWJMS; *National Institute of Environmental Health Sciences*

Mechanisms of Pesticide-Induced Neurobehavioral Deficits: Relevance to ADHD; J. Richardson, RWJMS; *National Institutes of Health*

Regulation of P-Glycoprotein Expression and Function by CD44 in Breast Cancer; L. Rodriguez-Rust, RWJMS; *United States Department of Defense*

A Gene Therapy Approach for the Treatment of Experimental Autoimmune Encephalomyelitis; Y. Ron, RWJMS; *National Institute of Neurological Disorders and Stroke*

Sexual Dysfunction and Diabetes: Look AHEAD Sub-Study; R. Rosen, RWJMS; *National Institutes of Health*

WNT Regulation of Cell Cycle in Cortical Neurogenesis; I. Rossman, RWJMS; *National Institutes of Health*

Integration of Murine Retroviral Vectors; M. Roth, RWJMS; *National Institutes of Health*

The Envelope Gene Products of Feline Leukemia Virus; M. Roth, RWJMS; *National Institutes of Health*

Functional Studies of the Topo I Binding Protein Topors; E. Rubin, RWJMS; *National Cancer Institute*

Functional Analysis of the Bifunctional ION Channel and Kinase TRPM7; L. Runnels, RWJMS; *National Institutes of Health*

Development of New Drugs that Protect Gastrointestinal Tract from Radiation; A. Ryazanov, RWJMS; *National Institutes of Health*

Regulation of Metal Ion Homeostasis by Channel Kinases; A. Ryazanov, RWJMS; *National Institutes of Health*

TEL-AML1 Transgenic Zebrafish Model of Human Leukemia; H. Sabaawy, RWJMS; *National Cancer Institute*

Parkinson's Disease Neuroprotection Clinical Trial; J. Sage, RWJMS; *National Institute of Neurological Disorders and Stroke*

STICH Surgical Treatment for Ischemic Heart Failure; P. Scholz, RWJMS; *National Heart, Lung and Blood Institute*

EMAP II Regulation of Pulmonary Cell Proliferation; M. Schwarz, RWJMS; *National Heart, Lung and Blood Institute*

Vasculature is a Determinant of Epithelial Morphogenesis; M. Schwarz, RWJMS; *National Heart, Lung and Blood Institute*

Caffeine Regulates Splicing of Cancer-Related Genes: Dissecting the Mechanism; K. Scotto, RWJMS; *National Institutes of Health*

Role of KVS and MPS Subunits in Basic Neuronal Function; F. Sesti, RWJMS; *National Institute of General Medical Sciences*

Characterization of Floor Level Aerosol (PM) Exposure and Childhood Asthma; S. Shalat, RWJMS; *National Institute of Environmental Health Sciences*

BRCA2 Interacting Proteins and Breast Cancer Intervention; Z. Shen, RWJMS; *United States Department of Defense*

Functional Analysis of Cripto in Mouse Embryogenesis; M. Shen, RWJMS; *National Institute of Child Health and Human Development*

Molecular Analysis of Metastatic Prostate Cancer in Mice; M. Shen, RWJMS; *National Institutes of Health*

Molecular Analysis of Prostate Organogenesis; M. Shen, RWJMS; *United States Department of Defense*

Progenitor Cells of the Mouse Prostate Epithelium; M. Shen, RWJMS; *National Institutes of Health*

Protection of Genomic Integrity by BCCIP; Z. Shen, RWJMS; *National Cancer Institute*

Effectiveness Trial of Attention Shaping for Schizophrenia; S. Silverstein, RWJMS; *National Institute of Mental Health*

PB-Environmental Stress Interactions: Re-Evaluating Risk; D. Slechta, RWJMS; *National Institute of Environmental Health Sciences*

Cue-Elicited Craving and Genetics in Relaps in Cocaine Dependence; D. Smelson, RWJMS; *National Institute on Drug Abuse*

Maintaining Independence and Sobriety Through Systems Integration; D. Smelson, RWJMS; *Substance Abuse and Mental Health Services Administration*

Qigong Therapy for Treating Cocaine Addiction; D. Smelson, RWJMS; *National Center for Complementary and Alternative Medicine*

Adenosine: Glutamate and Neurodegeneration; P. Sonsalla, RWJMS; *National Institutes of Health*

Treatment Issues in Smokers with Schizophrenia; M. Steinberg, RWJMS; *National Institute on Drug Abuse*

Structure and Function of Response Regulator Proteins; A. Stock, RWJMS; *National Institute of General Medical Sciences*

Regulation Sindbis Virus Subgenomic RNA Synthesis; V. Stollar, RWJMS; *National Institute of Allergy and Infectious Diseases*

Mechanism of Bacterial Enhancer-Dependent Transcription; V. Studitsky, RWJMS; *National Science Foundation*

Mechanism Transcript elongation in Chromatin; V. Studitsky, RWJMS; *National Institutes of Health*

Emotional and Physiological Response to Goal Blockage in Infants and Children; M. Sullivan, RWJMS; *National Institute of Mental Health*

Emotional and Physiological Responses to Frustration; M. Sullivan, RWJMS; *National Institute of Mental Health*

Emotions and Risk to Psychopathology in Infants and Children; M. Sullivan, RWJMS; *National Institutes of Health*

Developmental Pesticide Exposure: The Parkinson's Disease Phenotype; M. Thiruchelvam, RWJMS; *National Institute of Environmental Health Sciences*

Novel Oligonucleotide Delivery Vehicles for Gene Therapy; T. Thomas, RWJMS; *National Cancer Institute*

Role of Polyamines in Estrogen Function in Breast Cancer; T. Thomas, RWJMS; *National Cancer Institute*

Phase II Doxorubicin/Vinorelbine in WTP53 Breast Cancer; D. Toppmeyer, RWJMS; *National Cancer Institute*

Molecular Mechanisms of Ataxin-1 Action; C. Tsai, RWJMS; *National Institutes of Health*

Clinical Center For Monitoring Health In WTC Responders; I. Udasin, RWJMS; *Centers for Disease Control and Prevention*

Ethnicity and the Diagnosis of Affective Illness; W. Vega, RWJMS; *National Institutes of Health*

Transabdominal Monitoring of Fetal Oxygen Saturation Using Near Infrared Light Spectroscopy; A. Vintzileos, RWJMS; *National Institutes of Health*

Extracellular Matrix and Axonal Guidance in C Elegans; W. Wadsworth, RWJMS; *National Institute of Neurological Disorders and Stroke*

Cell Cycle Checkpoint in Response to DNA Damage; N. Walworth, RWJMS; *National Institutes of Health*

Molecular Studies of Cancer Specific Fragile Sites; Y. Wang, RWJMS; *National Cancer Institute*

The Role of Fragile Sites in RET/PTC Rearrangement; Y. Wang, RWJMS; *National Institutes of Health*

Mechanism of Altered Neutrophil Apoptosis in Bronchopulmonary Dysplasia; B. Weinberger, RWJMS; *National Institute of Child Health and Human Development*

On Exposure and Health Assessment within the Community Surrounding the Martin Luther King/Jefferson School Construction Site; C. Weisel, RWJMS; *United States Environmental Protection Agency*

Next-Generation QSAR Tools to Predict Toxicity of CWAs; W. Welsh, RWJMS; *United States Department of Defense*

Reactivation of Methylation-Silenced by Polyphenol; W. Welsh, RWJMS; *National Institutes of Health*

Nicotine Intake in Smokers with Schizophrenia; J. Williams, RWJMS; *National Institutes of Health*

Trial of Selegiline Transdermal System; J. Williams, RWJMS; *National Institute on Drug Abuse*

Molecular Probes of Myosin Structure and Interactions; D. Winkelmann, RWJMS; *National Institute of Arthritis and Musculoskeletal and Skin*

Single Protein Production in Yeast Cells; N. Woychik, RWJMS; *National Institutes of Health*

Role of Foxn4 Gene During Retinogenesis; M. Xiang, RWJMS; *National Institutes of Health*

Transcriptional Regulation of Retinal Development; M. Xiang, RWJMS; *National Eye Institute*

Role of Ubiquitin C-Terminal Hydrolase-L1 in Cancer Progression; J. Yang, RWJMS; *National Cancer Institute*

The Impact of a Common MDM2 SNP on the Sensitivity of Breast Cancer to Treatment; J. Yang, RWJMS; *United States Department of Defense*

Basement Membrane Self-Assembly and Structure; P. Yurchenco, RWJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Laminin-Induced Membrane Complexes in Muscle and Nerve; P. Yurchenco, RWJMS; *National Institute of Neurological Disorders and Stroke*

Energy Metabolism; Dopamine Neurons and Neurotoxicity; G. Zeevalk, RWJMS; *National Institute of Neurological Disorders and Stroke*

Acute Inhibition of Fast Organelle Transport by Amyloid B Peptides; J. Zheng, RWJMS; *National Institutes of Health*

Genetic and Molecular Basis of Rapamycin Sensitivity; X. Zheng, RWJMS; *National Cancer Institute*

Growth Control and Anti-Cancer Mechanisms; X. Zheng, RWJMS; *National Institutes of Health*

Mechanisms of Growth Cone Turning in Diffusible Gradient; J. Zheng, RWJMS; *National Institute of Neurological Disorders and Stroke*

Treatment of Addiction to Nicotine in Schizophrenia; D. Ziedonis, RWJMS; *National Institute on Drug Abuse*

The Role of Histone H2Az in Cardiac Gene Expression; M. Abdellatif, NJMS; *National Heart, Lung and Blood Institute*

Integrated Dual-Use Systems for Bio-Defense and Sepsis Diagnosis; D. Alland, NJMS; *National Institute of Allergy and Infectious Diseases*

Towards Drugs that Prevent Resistance to the HIV OI, TB; D. Alland, NJMS; *National Institute of Allergy and Infectious Diseases*

Tuberculosis Genotyping and Evolutionary Consortium; D. Alland, NJMS; *National Institute of Allergy and Infectious Diseases*

US-Brazil Research Collaboration on Strain Variation in TB; D. Alland, NJMS; *National Institute of Allergy and Infectious Diseases*

Genetics of the Sodium-Lithium Countertransport; A. Aviv, NJMS; *National Heart, Lung and Blood Institute*

Human Telomere Genetics; A. Aviv, NJMS; *National Institute on Aging*

Telomeres and Vascular Aging; A. Aviv, NJMS; *National Institute on Aging*

In Vivo Mammalian Tissue Response to Low Dose Ionizing Radiation: The Role of Oxidative Metabolism and Intercellular Communication; E. Azzam, NJMS; *United States Department of Energy*

The Role of Gap-Junction Communication and Oxidative Metabolism in the Biological Effects of Space Radiation; E. Azzam, NJMS; *National Aeronautics and Space Administration*

Role of IRF5 in SLE Pathogenesis; B. Barnes, NJMS; *National Institute of Arthritis and Musculoskeletal and Skin*

Cell-Targeting Peptide Nucleic Acid for Prostate Cancer; B. Barton, NJMS; *United States Department of Veterans Affairs*

Analysis of Trypanosome mRNA Synthesis by Gene Transfer; V. Bellofatto, NJMS; *National Institute of Allergy and Infectious Diseases*

Molecular Mechanism of Ion Transport by the Na,K-Pump; J. Berlin, NJMS; *National Institute of General Medical Sciences*

Regulation of Soluble Guanylyl Cyclase, the NO-Receptor; A. Beuve, NJMS; *National Institute of General Medical Sciences*

S-Nitrosylation of Soluble Guanylyl Cyclase: Potential Role in Nitrate Tolerance; A. Beuve, NJMS; *National Heart, Lung and Blood Institute*

Targeting FKBP52 and Copper Transport in Alzheimer's Disease; R. Birge, NJMS; *National Institute on Aging*

Cerebral Blood Flow and BOLD Changes in TBI Using fMRI; B. Biswal, NJMS; *National Institute of Neurological Disorders and Stroke*

Novel Targets for Vaccines Against Tuberculosis; Y. Bushkin, NJMS; *National Institute of Allergy and Infectious Diseases*

Interaction of Borrelia Lipoproteins with the Cerebral Microcirculation; D. Cadavid, NJMS; *National Institute of Neurological Disorders and Stroke*

Protective Role of Interleukin 10 in Neuroborreliosis; D. Cadavid, NJMS; *National Institute of Neurological Disorders and Stroke*

Role of TRPV6 in Gender and Age Dependent Alterations in Calcium Homeostasis(Benn, Bryan); S. Christakos, NJMS; *Ruth L. Kirschstein National Research Service Award*

Vitamin D Hormone: Function and Mechanism of Action; S. Christakos, NJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Host Response and Aerosolization - UMDNJ Center for Biodefense; N. Connell, NJMS; *United States Department of Defense*

Organizational Self-Assessment to Improve Diabetes Care in Primary Care Practices; J. Crosson, NJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

National Study of Determinants of Early Diagnosis, Prevention and Treatment of TB in African-American Community; A. Davidow, NJMS; *Centers for Disease Control and Prevention*

A National Genotyping Registry for a Molecular Epidemiological Analysis of Multi Drug Resistant M. Tuberculosis, USA and/or Canada; A. Davidow, NJMS; *Centers for Disease Control and Prevention*

TB Epidemiologic Studies Consortium - TBES - Enhanced Surveillance to Identify Missed Opportunities for TB Prevention in Foreign Born; A. Davidow, NJMS; *Centers for Disease Control and Prevention*

Mesenteric Lymph Linking Gut and Distant Organ Injury; E. Deitch, NJMS; *National Institute of General Medical Sciences*

Shock, Trauma and Gut Origin Sepsis; E. Deitch, NJMS; *National Institute of General Medical Sciences*

Training in Trauma and Critical Care Research; E. Deitch, NJMS; *National Institute of General Medical Sciences*

Advanced Rehabilitation Research Training Center (ARRTC) on Outcomes and Intervention Effectiveness; J. DeLuca, NJMS; *United States Department of Education*

CD134-Based Fusion Polypeptides as Novel FIV Immuno-Therapeutics; A. DeParseval, NJMS; *National Institute of Allergy and Infectious Diseases*

DNA Gyrase and Quinolone Resistance in Tuberculosis; K. Drlica, NJMS; *National Institute of Allergy and Infectious Diseases*

Lethal Action of Fluoroquinolones with Non-Growing Mycobacterium Tuberculosis; K. Drlica, NJMS; *National Institute of Allergy and Infectious Diseases*

Quinolone Action During Mycobacterial Growth Arrest; K. Drlica, NJMS; *National Institute of Allergy and Infectious Diseases*

Genetic Competence Apparatus of Bacillus Subtilis; D. Dubnau, NJMS; *National Institute of General Medical Sciences*

Regulation of Genetic Competence in Bacillus Subtilis; D. Dubnau, NJMS; *National Institute of General Medical Sciences*

Molecular Mechanism in Spinal Cord Neurodegeneration (Kurnellas, Michael); S. Elkabes, NJMS; *Ruth L. Kirschstein National Research Service Award*

Mechanisms Underlying Neuronal Damage in EAE: Role of Microglia; S. Elkabes, NJMS; *National Institute of Neurological Disorders and Stroke*

Expression of Tuberculosis in the Lung; J. Ellner, NJMS; *National Heart, Lung and Blood Institute*

Progesterone and the Sexual Differentiation of Brain and Behavior; B. Fadem-Chenal, NJMS; *National Science Foundation*

Developmental Regulation of Intestinal Sugar Transport; R. Ferraris, NJMS; *National Science Foundation*

Effect of Phosphate Metabolism on Phosphorus Levels in Aqua Culture Effluent; R. Ferraris, NJMS; *United States Department of Agriculture*

Regulation of Intestinal Phosphate Uptake by Dietary Carbohydrate; R. Ferraris, NJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Using Genetic Approaches to Determine Dietary P Requirements of Large Rainbow Trout; R. Ferraris, NJMS; *United States Department of Agriculture*

Amnis ImageStream Cell Analysis System - Shared Instrumentation Grant; P. Fitzgerald-Bocarsly, NJMS; *National Center for Research Resources*

Plasmacytoid Dendritic Cells in HIV Pathogenesis; P. Fitzgerald-Bocarsly, NJMS; *National Institute of Allergy and Infectious Diseases*

Mechanisms of Cell Growth Arrest in Latent Tuberculosis; P. Fontan, NJMS; *National Institute of General Medical Sciences*

Role of Id Genes During Cardiac Development - TRANSFER; D. Fraidenraich, NJMS; *National Heart, Lung and Blood Institute*

Alzheimer Disease Mechanisms in Lens Aging and Disease; P. Frederikse, NJMS; *National Eye Institute*

Gr-1 + Cells and the Response to Nematode Parasites; W. Gause, NJMS; *National Institute of Allergy and Infectious Diseases*

Role of ALK3 in Atrioventricular Valve Development; V. Gaussin, NJMS; *National Heart, Lung and Blood Institute*

Antibody Profiles Characteristic of Tuberculosis State; M. Gennaro, NJMS; *National Institute of Allergy and Infectious Diseases*

Immunodiagnosis of Tuberculosis: New Questions, New Tools - Scientific Conference; M. Gennaro, NJMS; *National Institute of Allergy and Infectious Diseases*

Proteome Screening for Tuberculosis Outcome Marker; M. Gennaro, NJMS; *National Institute of Allergy and Infectious Diseases*

Activation and Protection of Dendritic Cells in the Prostate Cancer Environment; G. Guruli, NJMS; *United States Department of Defense*

Permeability Mediated by Connexin Channels; A. Harris, NJMS; *National Institute of General Medical Sciences*

Structure-Function of Connexin Pores; A. Harris, NJMS; *National Institute of Neurological Disorders and Stroke*

Adenosine in Trauma and Sepsis; G. Hasko, NJMS; *National Institute of General Medical Sciences*

Carotid Revascularization Endarterectomy vs. Stenting Trial; R. Hobson, NJMS; *National Institute of Neurological Disorders and Stroke*

Integrated Testing and Primary Care of Persons Living with HIV in Newark, NJ; S. Hodder, NJMS; *Health Resources and Services Administration*

Effects of Nonuniform Distribution of Radioactivity; R. Howell, NJMS; *National Cancer Institute*

Protection Against Radiation-Induced Damage to Intestinal Nutrient Transport; R. Howell, NJMS; *National Institute of Allergy and Infectious Diseases*

Probing Mechanisms of Kappa Opioid Receptor Regulation Using Mass Spectrometry (Wannemacher, Kenneth); R. Howells, NJMS; *Ruth L. Kirschstein National Research Service Award*

Purification and Mass Spectrometry of Opioid Receptors; R. Howells, NJMS; *National Institute on Drug Abuse*

Myocardial Passive Stiffness: Effect of Aging; W. Hunter, NJMS; *National Institute on Aging*

Coordination of Fetal Growth by Nutrient Availability; N. Illsley, NJMS; *National Institute of Child Health and Human Development*

Placental Association of the Americas Conference Grant; N. Illsley, NJMS; *National Institute of Child Health and Human Development*

Feline Model of Neuropathy with Anti-MAG/SGPG Antibodies; A. Ilyas, NJMS; *National Institute of Neurological Disorders and Stroke*

Host and Pathogen Determinants of M. Tuberculosis Latency; G. Kaplan, NJMS; *National Institute of Allergy and Infectious Diseases*

Host-Pathogen Interactions and M.tb Drug Resistance; G. Kaplan, NJMS; *National Institute of Allergy and Infectious Diseases*

Regulation of Early Cytokine Receptors to TB Infection; G. Kaplan, NJMS; *National Institute of Allergy and Infectious Diseases*

Effectors and Inhibitors of SARS Virus Polymerase; N. Kaushik-Basu, NJMS; *National Institute of Allergy and Infectious Diseases*

Molecular Modulators of HCV Replication; N. Kaushik-Basu, NJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Role of Interferon-Lambda in Antiviral Response; S. Kotenko, NJMS; *National Institute of Allergy and Infectious Diseases*

DNA Repair Defect in Fanconi Anemia, Group A; M. Lambert, NJMS; *National Heart, Lung and Blood Institute*

Translating Research into Action for Diabetes (TRIAD II); N. Lasser, NJMS; *Centers for Disease Control and Prevention*

Role of Nuclear Gangliosides in Neuronal Function; R. Ledeen, NJMS; *National Institute of Neurological Disorders and Stroke*

Toll-Like Receptors, Adenosine and Angiogenesis - (Includes Minority Supplement); S. Leibovich, NJMS; *National Institute of General Medical Sciences*

Exercise and the Brain: The Fight Against Juvenile Obesity (Patterson, Christa); B. Levin, NJMS; *Ruth L. Kirschstein National Research Service Award*

Neural Stem Cell Responses to Perinatal Brain Damage; S. Levison, NJMS; *National Institute of Mental Health*

3' End Formation of Human Type I and II Collagen mRNAs; C. Lutz, NJMS; *National Institute of Arthritis and Musculoskeletal and Skin*

Mechanisms of MeCP2 Gene Expression Regulation; C. Lutz, NJMS; *National Institutes of Health*

Mechanisms of Post-Transcriptional Regulation; C. Lutz, NJMS; *National Science Foundation*

High Glucose Promotes Myocyte Apoptosis by PKC Pathways; A. Malhotra, NJMS; *National Heart, Lung and Blood Institute*

Ribosome-Based Single Molecule Method to Acquire Sequence Data from Genomes; W. Mandrecki, NJMS; *National Human Genome Research Institute*

Functions of Double-Stranded RNA Binding Proteins; M. Mathews, NJMS; *National Institute of Allergy and Infectious Diseases*

Ion Channels and Chemicals Controlling Synapse Stability and includes a Minority Supplement; J. Mc Ardle, NJMS; *National Institute of Neurological Disorders and Stroke*

Therapeutic Efficacy of Botulinum Metalloendoprotease Inhibitors: Protection and Recovery of Neurotransmitter Release and Neuromuscular Function; J. Mc Ardle, NJMS; *United States Army*

Packaging of the Segmented Genome of Bacteriophage Phi6; L. Mindich, NJMS; *National Institute of General Medical Sciences*

Studies of DNA Pol I and Pol E2 of M. Tuberculosis; M. Modak, NJMS; *National Institute of Allergy and Infectious Diseases*

Neuroendocrine Regulation of Erythropoiesis Following Trauma; A. Mohr, NJMS; *National Institute of General Medical Sciences*

The Role of ICER in Ovarian Function(Muniz); C. Molina, NJMS; *Ruth L. Kirschstein National Research Service Award*

The role of SWI/SNF-related complex components in osteoblast differentiation; E. Moran, NJMS; *National Institute of General Medical Sciences*

Molecular Motors in Transport and Signaling by APP; V. Muresan, NJMS; *National Institute of General Medical Sciences*

Structure and Function of RNA Polymerase in E. Coli; A. Mustaev, NJMS; *National Institute of General Medical Sciences*

Addressing Disparities in Cancer Care for Latino Medicare Beneficiaries; A. Natale-Pereira, NJMS; *Centers for Medicare and Medicaid Services*

Internet Disclosure for Multi-Symptom Illness (Chandler, Helena); B. Natelson, NJMS; *Agency for Healthcare Research and Quality*

Sleep and Cytokines Chronic Fatigue Syndrome; B. Natelson, NJMS; *National Institute of Allergy and Infectious Diseases*

NJMS Clinical Trials Unit: Targeting Pediatric, Adolescent, and Maternal HIV Infection; J. Oleske, NJMS; *National Institute of Allergy and Infectious Diseases*

Mitochondrial Aconitase: Fe-S Cluster Biogenesis and Interaction with mtDNA; D. Pain, NJMS; *National Institute on Aging*

Genome Targeted Inhibitors of Retroviruses; V. Pandey, NJMS; *National Institute of Allergy and Infectious Diseases*

Compensating Tat/TAR Mutations in Drug-Resistant HIV-1; T. Pe'ery, NJMS; *National Institute of Allergy and Infectious Diseases*

Mechanism of Arginine Transport in Cardiac Myocytes; R. Peluffo, NJMS; *National Heart, Lung and Blood Institute*

A Rapid and Expandable Nucleic Acid Platform to Detect Bloodstream Infections; D. Perlin, NJMS; *National Institute of Allergy and Infectious Diseases*

Mechanism of Clinical Resistance to Echinocardin: Antifungal Drugs; D. Perlin, NJMS; *National Institute of Allergy and Infectious Diseases*

Antigenic Properties of the V1/V2 Domain of HIV-1 gp120; A. Pinter, NJMS; *National Institute of Allergy and Infectious Diseases*

Novel HIV Neutralizing Human MAbs from Transgenic Mice; A. Pinter, NJMS; *National Institute of Allergy and Infectious Diseases*

WARCEF Research Study - Warfarin Vs. Aspirin in Reduced Ejection Fraction; P. Pulicino, NJMS; *National Institute of Neurological Disorders and Stroke*

Gap Junctions Between Breast Cancer Cells and Bone Marrow Stroma Accounts for Cancer Cell Quiescence and their Evasion from Current Therapies; P. Rameshwar, NJMS; *United States Army*

Sleep Bruxism and Central Sensitization in Myofascial Face Pain; K. Raphael, NJMS; *National Institute of Dental and Craniofacial Research*

Regulation of the Cardiac Na/Ca Exchanger; J. Reeves, NJMS; *National Heart, Lung and Blood Institute*

Lipid Regulation of Transient Receptor Potential Channels; T. Rohacs, NJMS; *National Institute of Neurological Disorders and Stroke*

Hormonal Control of Arcuate Nutrient Sensing Neurons(Cotero, Victoria); V. Routh, NJMS; *Ruth L. Kirschstein National Research Service Award*

Glucosensing Neurons in Euglycemia, Hypoglycemia and HAAF; V. Routh, NJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

AT1 Signaling in Cardiac Hypertrophy and Apoptosis(Zhai, Peiyong); J. Sadoshima, NJMS; *Ruth L. Kirschstein National Research Service Award*

Cardioprotective Effects of Thioredoxin 1; J. Sadoshima, NJMS; *National Heart, Lung and Blood Institute*

Regulation of Myocardial Growth and Death By Akt/GSK3; J. Sadoshima, NJMS; *National Heart, Lung and Blood Institute*

The Role of Thioredoxin in the Aging Heart; J. Sadoshima, NJMS; *National Institute on Aging*

Helminth Modulation of the Protective Immune Response to Tuberculosis (Potian, Julius A); P. Salgame, NJMS; *Ruth L. Kirschstein National Research Service Award*

Helminth Modulation of Mtb; P. Salgame, NJMS; *National Institute of Allergy and Infectious Diseases*

Induction of Th1 Immunity in Tuberculosis; P. Salgame, NJMS; *National Institute of Allergy and Infectious Diseases*

Th1 Cell Apoptosis in Tuberculosis; P. Salgame, NJMS; *John E. Fogarty International Center*

TLR2 Regulation of Host Immune Response in TB; P. Salgame, NJMS; *National Institute of Allergy and Infectious Diseases*

Cardiovascular Actions of Melanocortins; H. Sapru, NJMS; *National Heart, Lung and Blood Institute*

Central Cardiovascular Regulation: Role of Urocortin III; H. Sapru, NJMS; *National Heart, Lung and Blood Institute*

Gating/Permeation Coupling in Ca²⁺ Channels; R. Shirokov, NJMS; *National Institute of Mental Health*

Complete Proteome of Cerebrospinal Fluid; S. Shutzer, NJMS; *National Institute on Drug Abuse*

Assessment of Human Electro-Muscular Interference (HEMI) Devices in Trainees; R. Servatius, NJMS; *National Institute of Justice*

Suppression: Effects of Advanced Energy Technologies; R. Servatius, NJMS; *United States Department of Defense*

Role of Limbic-Midbrain Axis in Aggressive Behavior; A. Siegel, NJMS; *National Institute of Neurological Disorders and Stroke*

Fatty Acid Metabolism's Role in M. Tuberculosis Virulence; I. Smith, NJMS; *National Institute of Allergy and Infectious Diseases*

M. Tuberculosis and Host Gene Expression During Infection; I. Smith, NJMS; *National Heart, Lung and Blood Institute*

Molecular Determinants of M. Tuberculosis Virulence; I. Smith, NJMS; *National Institute of Allergy and Infectious Diseases*

Erythrocytes, Immuno-Modulation and G6PD Deficiency; Z. Spolarics, NJMS; *National Institute of General Medical Sciences*

Vitamin D Analogs as Adjuvants in Chemotherapy; G. Studzinski, NJMS; *National Cancer Institute*

Signaling Network of Mec1 in DNA Damage Response; K. Sugimoto, NJMS; *National Institute of General Medical Sciences*

Insecticide Interactions with Acetylcholinesterase; L. Sultatos, NJMS; *National Institute of Environmental Health Sciences*

Mechanism of Cardiovascular Dysfunction in Diabetes; C. Szabo, NJMS; *National Heart, Lung and Blood Institute*

PARS and Peroxynitrite Induced Cell Death; C. Szabo, NJMS; *National Institute of General Medical Sciences*

Role of Uncoupling Protein-2 in Alcoholic Cardiomyopathy(Turner); A. Thomas, NJMS; *Ruth L. Kirschstein National Research Service Award*

Effects of Ethanol on Contraction-Coupling on Cardiac Muscle Cells; A. Thomas, NJMS; *National Institute on Alcohol Abuse and Alcoholism*

Analysis of mRNA Polyadenylation Events Across Species and Tissues; B. Tian, NJMS; *National Institute of General Medical Sciences*

Designer Retinal Circuits: Interfacing Optical Tweezers with an Electronic Device; E. Townes-Anderson, NJMS; *National Eye Institute*

High Throughput PCR Assays for Diagnosing Tuberculosis; S. Tyagi, NJMS; *National Institute of Allergy and Infectious Diseases*

Imaging the Transport of Individual mRNA Molecules to the Active Synapses; S. Tyagi, NJMS; *National Institute of Mental Health*

Visualizing the Movement of mRNAs in Living Cells; S. Tyagi, NJMS; *National Institute of General Medical Sciences*

Ethyl Pyruvate Provides Therapeutic Benefits to Resuscitation Fluids; L. Ulloa, NJMS; *United States Army Medical Research Acquisition Activity*

Age and Gender Differences in Apoptosis and Stem Cells; D. Vatner, NJMS; *National Institute on Aging*

Mechanisms of Myocardial Ischemia and Reperfusion - Research Program Project; D. Vatner, NJMS; *National Heart, Lung and Blood Institute*

Aging Effects on Cardiovascular Function; S. Vatner, NJMS; *National Institute on Aging*

Cardiovascular Control in Normal and Disease States; S. Vatner, NJMS; *National Heart, Lung and Blood Institute*

Integrative Mechanisms in Cardiovascular Disease; S. Vatner, NJMS; *National Heart, Lung and Blood Institute*

Longevity and Stress Resistance; S. Vatner, NJMS; *National Institute on Aging*

Myocardial Hypertrophy and Heart Failure; S. Vatner, NJMS; *National Heart, Lung and Blood Institute*

Structural and Functional Studies of a PhoP-PhoR Two-Component System; S. Wang, NJMS; *National Institute of General Medical Sciences*

Reduction of Disparities in Childhood Immunization Rates: Essex County, New Jersey; P. Wenger, NJMS; *Centers for Disease Control and Prevention*

IGF and IGF Receptor Function in Mammary Development; T. Wood, NJMS; *National Institute of Diabetes and Digestive and Kidney Diseases*

Mechanisms of Death and Survival in Oligodendroglia; T. Wood, NJMS; *National Institute of Neurological Disorders and Stroke*

Nestin: A Putative Marker of a Mammary Stem and Progenitor Cell Lineage; T. Wood, NJMS; *National Cancer Institute*

Oligodendrocyte Generation-A Multifactorial Approach - TRANSFER; T. Wood, NJMS; *National Institute of Neurological Disorders and Stroke*

Tumor Suppressor and Oncogenic Pathways in the Placenta; L. Wu, NJMS; *National Cancer Institute*

Anthropagic Defense Against Intracellular Parasites; G. Yap, NJMS; *National Institute of Allergy and Infectious Diseases*

Generation Maintenance of Type 1 Immunity to Toxoplasma; G. Yap, NJMS; *National Institute of Allergy and Infectious Diseases*

Novel Approaches for Burn Injury Cardiac Dysfunction; A. Yatani, NJMS; *National Heart, Lung and Blood Institute*

Alcohol and Mesolimbic Glutamatergic Transmission; J. Ye, NJMS; *National Institute on Alcohol Abuse and Alcoholism*

Ethanol and Mesolimbic GABAergic Neurons; J. Ye, NJMS; *National Institute on Alcohol Abuse and Alcoholism*

Neurobiol Mechanism/Acupuncture Therapy/Alcoholism; J. Ye, NJMS; *National Center for Complementary and Alternative Medicine*

IL-2 Neuroimmunology and Behavior; S. Zalcman, NJMS; *National Institute of Mental Health*

Altitude-Induced Hypoxia, IUGR and Placental Function; S. Zamudio, NJMS; *National Institute of Child Health and Human Development*

Dissociating Hypoxia from Pathology in Preeclampsia and IUGR: The Altitude Model; S. Zamudio, NJMS; *John E. Fogarty International Center*

MPO and NO Signaling in Neointima Formation; C. Zhang, NJMS; *National Heart, Lung and Blood Institute*

New Genes Involved in Cellular Responses to Quinolone Treatment; X. Zhao, NJMS; *National Institutes of Health*

Identification of Human Cytomegalovirus Pathogenic Genes; H. Zhu, NJMS; *National Institute of Allergy and Infectious Diseases*

Transcription Regulation Through RNAP Secondary Channel; M. Anikin, SOM; *National Institutes of Health*
DNA Helicase and Primase Inhibitors for Biodefense; S. Biswas, SOM; *National Institutes of Health*

Structure and Function of Prokaryotic Transcript Cleavage Factors; S. Borukhov, SOM; *National Institutes of Health*

Impaired Glucose Challenge Test & Maternal Fetal Outcomes; X. Chen, SOM; *National Institutes of Health*

Evaluation & Dissemination of Evidence Based Services Statewide; E. Deblinger, SOM; *Substance Abuse and Mental Health Services Administration*

Young Sexually Abused Children: Optimal CBT Strategies; E. Deblinger, SOM; *National Institutes of Health*

Evolution of Hermaphroditism in Nematodes; R. Ellis, SOM; *National Science Foundation*

Clinical Pathways in Acute Care Geriatrics; T. Ginsberg, SOM; *Health Resources and Services Administration*

The Src Kinase, Cell Communication and Growth Control; G. Goldberg, SOM; *National Institutes of Health*

Transfer of Metabolites through Lens Gap Junctions; G. Goldberg, SOM; *National Institutes of Health*

Transcription Factor Acetylation in Yeast; M. Law, SOM; *National Institutes of Health*

Frontotemporal Dementias: Genotypes and Phenotypes; D. Libon, SOM; *National Institutes of Health*

Neural Basis of Generalized Qualifiers; D. Libon, SOM; *National Institutes of Health*

RNA Polymerase Structure and Function; W. McAllister, SOM; *National Institutes of Health*

Mechanisms of Developmental Timing in *C. elegans*; E. Moss, SOM; *National Science Foundation*

Mechanisms in Developmental Timing; E. Moss, SOM; *National Science Foundation*

Work-Family Conflicts of Older Women; R. Pruchno, SOM; *National Institutes of Health*

End of Life Preferences & Outcomes: Patients & Spouses; R. Pruchno, SOM; *National Institutes of Health*

Developing Effective Treatments for Child Physical Abuse; M. Runyon, SOM; *National Institutes of Health*

Oxidative Stress, Antioxidant Status and Pregnancy Outcome; T. Scholl & P. Stein, SOM; *National Institutes of Health*

Coordination of Fetal Growth by Nutrient Availability; P. Stein, SOM; *National Institutes of Health*

Altered Steroidogenesis During Bedrest; P. Stein, SOM; *National Aeronautics & Space Administration*

Role of the Oxidative Stress Pathway in Drug Resistance; R. Strich, SOM; *National Institutes of Health*

Role of CU, ZN SOD in *A. Actinomycetemcomitans*; N. Balashova, NJDS; *National Institutes of Health*

Gene Mapping of Susceptibility to Periodontitis; S. Diehl, NJDS; *National Institutes of Health*

Attachment of Oral Actinobacillus to Epithelium; D. Fine, NJDS; *National Institutes of Health*

Localized Aggressive Periodontitis: Microbial & Host Markers for Susceptibility; D. Fine, NJDS; *National Institutes of Health*

Characterization of *A. actinomycetemcomitans* leukotoxin mutants; M. Isaza, NJDS; *National Institutes of Health*

Leukotoxin production by *A. actinomycetemcomitans*; S. Kachlany, NJDS; *National Institutes of Health*

Biofilm Growth and Detachment of an Oral Pathogen; J. Kaplan, NJDS; *National Institutes of Health*

Gel Depot for Narcotic Addiction; C. Kasinathan, NJDS; *National Institutes of Health*

Salivary Amylase: Role in Dental Caries Pathogenesis; N. Ramasubbu, NJDS; *National Institutes of Health*

Structure/function studies of biofilm agents from *Aa*; N. Ramasubbu, NJDS; *National Institutes of Health*

Human Beta-Defensin-1 in HSV-1 Innate Immunity; L. Ryan, NJDS; *National Institutes of Health*

Unraveling germinal center B cell lymphoma development; V. Tsiagbe, NJDS; *National Institutes of Health*

Addressing Cancer Disparities in New Jersey Communities; D. Brown, SPH; *National Center on Minority Health and Health Disparities*

Spirituality-Based Intervention for African American Women with Breast Cancer; D. Brown, SPH; *United States Department of Defense*

Disparities in Mobility Device Use in Late-Life; J. Cornman, SPH; *National Institute on Aging*

An Exploratory Study to Integrate Cell Phones into Random Digit Dialing Health Surveys; C. Delnevo, SPH; *National Cancer Institute*

Improving Surveillance and Monitoring of Cigars; C. Delnevo, SPH; *National Cancer Institute*

Improving Surveillance and Monitoring of Smokeless Tobacco; C. Delnevo, SPH; *National Cancer Institute*

Tobacco Use in People with Mental Disorders: An Overlooked Tobacco Control Issue; C. Delnevo, SPH; *National Institute of Mental Health*

Age and Race Related Disparities in the Use of Adjuvant Chemotherapy for Early Stage Breast Cancer (through Columbia Center for the Active Life of Minority Elders); K. Demissie, SPH; *National Institute on Aging*

Disability and Time Use Among Married Couples (through University of Michigan); V. Freedman, SPH; *National Institute on Aging*

Home Modifications: Use, Cost, and Effects on Functioning Among the Elderly and Near Elderly (through the Urban Institute); V. Freedman, SPH; *United States Department of Health and Human Services*

Late-Life Health Trends: Disparities and Explanations; V. Freedman, SPH; *National Institute on Aging*

Financial Well-Being and Smoking Over the Life Course (through University of Michigan); I. Grafova, SPH; *National Institute on Aging*

Health Observances and Public Education Partnership; L. Hemminger, SPH; *National Center for Research Resources*

Tobacco Industry Direct Mail Marketing; J. Lewis, SPH; *National Cancer Institute*

Are Baby Boomers Adequately Prepared for Retirement? The Role of Employer Benefits Designs and Trends (through RAND Corporation); J. Rogowski, SPH; *United States Department of Labor*

The Effects of Nursing on NICU Patient Outcomes; J. Rogowski, SPH; *National Institute of Nursing Research*

Health and Retirement Study (through University of Michigan); J. Rogowski, SPH; *National Institute on Aging*

Neighborhoods and the Health of Elderly Americans; J. Rogowski, SPH; *National Institute on Aging*

Regional Perinatal Database-Reproductive Health Earmarks (through Drexel University College of Medicine); J. Rogowski, SPH; *Centers for Disease Control and Prevention*

Understanding the Effects of Health Insurance and Pensions on Labor Force Transitions of Older Workers (through RAND Corporation); J. Rogowski, SPH; *United States Department of Labor*

Night Time Sanitation and Maintenance, Third/Shift Maintenance and Cleanup Workers Health and Safety (General Industry); M. Rosen, SPH; *Occupational Safety and Health Administration*

Community Environmental Health Research (through Boston University); S. Santos, SPH; *National Institute of Environmental Health Sciences*

Three Evaluative Tools to Empower Local Communities in the Environmental Clean-Up of Sediment Contaminated Sites: A Comparative Analysis (through the Social and Environmental Research Institute); S. Santos, SPH; *United States Environmental Protection Agency*

Effect of Caffeine on UVB-Induced Skin Cancer (through Rutgers, the State University of New Jersey); W. Shih, SPH; *National Institutes of Health*

Environmental Health Literacy for Low Literate Groups; L. Waishwell, SPH; *National Institute of Environmental Health Sciences*

A Regional Multi-Institutional Academic Partnership for Excellence in Environmental Public Health Training; D. Wartenberg, SPH; *Centers for Disease Control and Prevention*

Response to Drastic Changes in Air Pollution: Reversibility and Susceptibility; J. Zhang, SPH; *National Institute of Environmental Health Sciences*

Validation of Diesel Exhaust Biomarkers; J. Zhang, SPH; *United States Environmental Protection Agency*

Prevalence of Complementary and Alternative Medicine (CAM) Use and Disclosure to Healthcare Providers in a Complementary Cancer Center; PI: A. Perlman, MD, MPH, SHRP; *National Cancer Institute, National Institutes of Health*

Safety and Efficacy Study of Vagus Nerve Stimulation (VNS) Using the Neurocybernetic Prosthesis (NCP) System in Patients with Refractory Fibromyalgia with and without Concurrent Major Depression; A. Perlman, MD, MPH, SHRP; *The National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health*

Circles of Support as a Job Retention Strategy; K. Gill, Ph.D., SHRP; *National Institute of Disability Rehabilitation Research*

Role Delineation and Job Analysis of Peer Support Professionals in the Veterans Administration; K. Gill, Ph.D., SHRP; *Veterans Administration in New Jersey*

Cognitive Behavioral Therapy for Persons with Trauma and First-Episode Psychosis; W. Lu, Ph.D., SHRP; *National Institute of Mental Health*

Enlisting Hospitals to Offer Rapid HIV Testing in L&D; C. Burr, FXB-SN; *U.S Centers for Disease Control and Prevention*

Gynecologic Care and Pap Screening in Ryan White CARE Act Title IV Programs; L. Podhurst, FXB-SN; *Health Resources and Services Administration HIV/AIDS Bureau*

Rapid Needs Assessment for the Development of Support Tools for In-Service and Pre-Service Health Care Settings; L. Podhurst, FXB-SN; *U.S Centers for Disease Control and Prevention*

Self-care for Women Living in the Newark, NJ Vicinity; L. Podhurst, FXB-SN; *Health Resources and Services Administration HIV/AIDS Bureau*

Women's Opinions about Routine HIV Testing During Pregnancy: Implications for the Opt Out Approach; L. Podhurst, FXB-SN; *Health Resources and Services Administration, HIV/AIDS Bureau*

Women's Opinions about the Process for Routine Prenatal HIV Testing (i.e. Opt-out Testing); L... Podhurst, FXB-SN; *Health Resources and Services Administration HIV/AIDS Bureau*

Negative Life Events: Risk to Health-Related Quality of Life in Children and Youth with HIV infection; D. Storm, FXB-SN; *National Institute of Nursing Research/National Institutes of Health, Quality of Life in Children with HIV Infection*

OTHER GOVERNMENTAL FUNDING

Bone Marrow Derived MSCs for Therapy of Liver Metastasis of Colorectal Cancer; D. Banerjee, RWJMS; *New Jersey Commission on Cancer Research*

Mechanism of Activation of Bone Marrow Derived MSCs in the Tumor Microenvironment; D. Banerjee, RWJMS; *New Jersey Commission on Science and Technology*

Molecular Mechanisms of Delayed Axonal Damage in Traumatic Brain Injury subcontract w/University of Pennsylvania; P. Casaccia-Bonofil, RWJMS; *New Jersey Commission on Brain Injury Research*

The Effect of FES on Children with Spinal Cord Dysfunction; F. Castello, RWJMS; *New Jersey Commission on Spinal Cord Research*

Control of TACE Mediated TGF A Release in Cancer; H. Fan, RWJMS; *New Jersey Commission on Cancer Research*

Validation of BA1 and BA2 Subtypes of Basal-Like Breast Cancer; S. Ganesan, RWJMS; *New Jersey Commission on Cancer Research*

Role of CAPER in ER and NF-kB Activity in Breast Cancer; C. Gelinas, RWJMS; *New Jersey Commission on Cancer Research*

Development of a Computer-Based Planning & Management Support System for Emergency Situations Involving Atmospheric Release of Hazardous Materials; P. Georgopoulos, RWJMS; *New Jersey Department of Health and Senior Services*

Evaluation of the Cellular Role of Pescadillo; a Cell Cycle Protein Elevated in Cancer; J. Germino, RWJMS; *New Jersey Commission on Cancer Research*

Signal Transduction in Myelin Inhibition of Axonal Growth; J. Han, RWJMS; *New Jersey Commission on Spinal Cord Research*

YY1 in Schwann Cell Proliferation and Myelination; Y. He, RWJMS; *New Jersey Commission on Spinal Cord Research*

Single Nucleotide Polymorphisms in Mdm2; Aktx-1 and P53 in Breast Cancer: Correlations with Molecular Characteristics and Phenotypic Behavior; K. Hirshfield, RWJMS; *New Jersey Commission on Cancer Research*

The Use of Patient Navigators in Increasing Enrollment onto Breast Cancer Clinical Trials; S. Hudson, RWJMS; *New Jersey Commission on Cancer Research*

Phosphorylation of Target of Rapamycin Complexes in Growth Regulation; E. Jacinto, RWJMS; *New Jersey Commission on Cancer Research*

A C-Type Lectin-Like Receptor in Axon Growth and Guidance; G. Kulkarni, RWJMS; *New Jersey Commission on Spinal Cord Research*

Brain Maturation and Self Representation in Young Children with Autism Spectrum Disorders; M. Lewis, RWJMS; *New Jersey Governor's Council on Autism*

Mechanisms of Vasculogenesis from Embryonic Stem Cells; S. Li, RWJMS; *New Jersey Commission on Science and Technology*

Chromium Exposure and Health Effects in Hudson County; P. Lioy, RWJMS; *New Jersey Department of Environmental Protection*

Contribution of Particulate Emissions from St. Lawrence Cement to Outdoor Dust in Camden NJ; P. Lioy, RWJMS; *New Jersey Department of Environmental Protection*

The Baseline Quality of Ambient and Personal Air Within the New Jersey Meadowlands District; P. Lioy, RWJMS; *New Jersey Meadowlands Commission*

Behavior Intervention Planning for Students with Developmental Disability; S. Lohrmann, RWJMS; *Morris-Union Jointure Commission Board of Education*

Testosterone Supplementation and Risk of Prostate Cancer; G. Lu-Yao, RWJMS; *New Jersey Commission on Cancer Research*

Role of Topoisomerase II Isozymes in Carcinogenesis; Y. Lyu, RWJMS; *New Jersey Commission on Cancer Research*

Gliogenic Potential of Human Placental Stem Cells; R. McKinnon, RWJMS; *New Jersey Commission on Science and Technology*

Stem Cell Therapeutic : PDGF Directed Glial Migration; R. McKinnon, RWJMS; *New Jersey Commission on Science and Technology*

Identification and Characterization of Mantle Cell Lymphoma Stem Cells; D. Medina, RWJMS; *New Jersey Commission on Science and Technology*

Engineering Nanofibrillar Surfaces for Spinal Cord Repair; S. Meiners, RWJMS; *New Jersey Commission on Spinal Cord Research*

Evaluation of the Inclusion Institute 2001; K. Melzer, RWJMS; *New Jersey Council of Developmental Disabilities*

Expanding General Education Options for Students with Special Needs; K. Melzer, RWJMS; *Office of Special Education (NJDOE)*

Review of Special Education Program Montclair Public Schools; K. Melzer, RWJMS; *Montclair Public Schools*

Association Analysis of Genes in ENGRAILED 2 Pathway; J. Millonig, RWJMS; *New Jersey Governor's Council on Autism*

Efficacy of Aripiprazole vs. Placebo in the Reduction of Aggressive and Aberrant Behavior in Autistic Children; S. Novotny, RWJMS; *New Jersey Governor's Council on Autism*

Cell Proliferation and Neurogenesis; R. Nowakowski, RWJMS; *New Jersey Commission on Spinal Cord Research*

Cell Proliferation and Spinal Cord Injury: 5 Year Named Chair (year 4 of 5); R. Nowakowski, RWJMS; *New Jersey Commission on Spinal Cord Research*

Molecular Circuitry of "Stemness" in the Developing CNS; R. Nowakowski, RWJMS; *New Jersey Commission on Science and Technology*

Use of Stem Cells for Delivery of Biotherapeutics for the Treatment of Cancers; S. Pestka, RWJMS; *New Jersey Commission on Science and Technology*

Opioid System Contributions to Autism Linked Behavior; J. Pintar, RWJMS; *New Jersey Governor's Council on Autism*

PTH-Mediated EGFR Signaling in Stromal Stem Cell Growth and Multidifferentiation; L. Qin, RWJMS; *New Jersey Commission on Science and Technology*

Regulation of Multidrug Resistance by CD44; L. Rodriguez-Rust, RWJMS; *New Jersey Commission on Cancer Research*

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Mechanisms of Mesenchymal Stem Cell-Induced Immunosuppression; Y. Shi, RWJMS; *New Jersey Commission on Science and Technology*

Characterization of a Silenced Chromatin from Yeast; C. Shin Darlak, RWJMS; *New Jersey Commission on Cancer Research*

An Exploratory Epidemiologic Study of Autism in NJ and Possible Environmental Risk Factors; D. Wartenberg, RWJMS; *New Jersey Governor's Council on Autism*

Autism and Cerebral Excitation-Inhibition Imbalance; H. Weiss, RWJMS; *New Jersey Center for Excellence in Autism*

Using Peer Counselors to Address Tobacco among Mental Health Consumers; J. Williams, RWJMS; *New Jersey Division of Mental Health Services*

Isolation of Amnion Derived Stem Cells; D. Woodbury, RWJMS; *New Jersey Commission on Science and Technology*

Plasticity of Amnion Derived Stem Cells (ADSCs) In Vitro and In Vivo; D. Woodbury, RWJMS; *New Jersey Commission on Science and Technology*

Controlled Differentiation of Inner Retinal Cell Types from Stem Cells (Grant Agreement); M. Xiang, RWJMS; *New Jersey Commission on Science and Technology*

Role of Brn3 Genes in Spinal Neuron Development and Survival; M. Xiang, RWJMS; *New Jersey Commission on Spinal Cord Research*

Targeting IRF-5 Signaling for Cancer Chemotherapy (Spencer, Daniel S); B. Barnes, NJMS; *New Jersey Commission on Cancer Research*

Development of a FRET-Based Diagnostic Assay for CML(Tunceroglu, Ahmet S); R. Birge, NJMS; *New Jersey Commission on Cancer Research*

Inhibition of Hypusination as Treatment for Dysplasia; B. Cracchiolo, NJMS; *New Jersey Commission on Cancer Research*

S.A.V.E. Screening Access of Value Essex Women and Men; D. Decosimo, NJMS; *New Jersey Department of Health and Senior Services*

Toll-Like Receptor-9 Mediated Neuropathology in the Spinal Cord(Donahue, Kevin); S. Elkabes, NJMS; *New Jersey Commission on Spinal Cord Research*

Stem Cell-Based Therapy in Mst1 Transgenic Mice. A Mouse Model of Cardiomyopathy; D. Fraidenraich, NJMS; *New Jersey Commission on Science and Technology*

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Integrated Medical Care and Services for HIV/AIDS Infected Persons; S. Hodder, NJMS; *Department of Health and Human Services*

Anti-Inflammatory Effects of CNTF on Microglia(Lin, Hsiao-Wen); S. Levison, NJMS; *New Jersey Commission on Spinal Cord Research*

Method for Treatments of Bone Fracture Bone Defects and Allograft Incorporation by Local Administration of Insulin or Insulin Variant; S. Lin, NJMS; *New Jersey Commission on Science and Technology*

Post-Translational Modifications that Regulate Lytic Reactivation of a DNA Tumor Virus(Gavina, Aileen); D. Lukac, NJMS; *New Jersey Commission on Cancer Research*

Episomal Expression Vector For Mammalian Cells; H. Ozer, NJMS; *New Jersey Commission on Science and Technology*

Function of Non-Coding RNA, roX, in Gene Expression; Y. Park, NJMS; *New Jersey Commission on Cancer Research*

Bimolecular Beacons for miRNA Profiling; P. Soteropoulos, NJMS; *New Jersey Commission on Science and Technology*

Comprehensive HIV Service in Correctional Settings; P. Stanford, NJMS; *New Jersey Department of Health and Senior Services*

Understanding the Scope of Autism in New Jersey: Characteristics of Children Diagnosed with Autism Spectrum Disorders by the Age of 8 Years, NJ, 2000-; P. Thomas, NJMS; *New Jersey Governor's Council on Autism*

Identification of Risk Allele for Multiple Sclerosis; E. Vitale, NJMS; *New Jersey Commission on Science and Technology*

Evaluation of Soil and Plant Contamination with Metals at Liberty State Park; P. Weis, NJMS; *New Jersey Department of Environmental Protection*

c-Myc in Chronic Myelogenous Leukemia(Pannucci, Nicole); I. Whitehead, NJMS; *New Jersey Commission on Cancer Research*

Effects of Prescription Coverage on Control of Cancer Pain; R. Wieder, NJMS; *New Jersey Commission on Cancer Research*

New Jersey Autism Study: Population-Based Surveillance of Autism Spectrum Disorders in New Jersey; W. Zahorodny, NJMS; *New Jersey Governor's Council on Autism*

Young Adults with Autism: A Pilot Epidemiologic Investigation; W. Zahorodny, NJMS; *New Jersey Governor's Council on Autism*

Enhanced Accessibility to Specialized Services for Children Who are Crime Victims; E. Deblinger, SOM; *NJ Division of Criminal Justice*

Outreach Services; M. Finkel, SOM; *NJ Department of Children and Family*

MicroRNAs MiR-290-295 in Blastocyst-Derived Stem Cells & the Early Mouse Embryo; H. Houbaviy, SOM; *NJ Commission on Science and Technology*

Genomic Stability, Chromatin Remodeling and Differentiation Potential of Mesenchymal Stem Cells During ex vivo Expansion; R. Nagele, SOM; *NJ Commission on Science and Technology*

Use of BMH as a Diagnostic Marker; R. Nagele, SOM; *NJ Commission on Science and Technology*

Autoantibodies and the Pathogenesis of Autism; R. Nagele, SOM; *NJ Governor's Council on Autism*

Synthesis of Oxygenated Docosahexaenoic Acid Metabolites for the Study of Inflammation in Human Disease; B. Spur, SOM; *NJ Commission on Science & Technology/Foundation of UMDNJ*

Oxidative Stress and Brain Metabolism in Autism; P. Stein, SOM; *NJ Governor's Council on Autism*

Psychological Services for Abused and Neglected Children; M. Tracey, SOM; *NJ Department of Human Services*

Psychiatric Services for the Dually Diagnosed Persons; M. Tracey, SOM; *NJ Department of Human Services*

Overall Evaluation of the New Jersey Comprehensive Tobacco Control Program; C. Delnevo, SPH; *New Jersey Department of Health and Senior Services*

Evaluation of a Demonstration on Sterile Syringe Access Program in New Jersey; K. Demissie, SPH; *New Jersey Department of Health and Senior Services*

Strength Needs, Dietary and Physical Activity Assessments and Project Evaluation for Banishing Childhood Overweight Among Hispanic WIC Children; K. Demissie, SPH; *New Jersey Department of Health and Senior Services*

Perchlorate in Breast Milk Pilot Project; S. Marcella, SPH; *New Jersey Department of Environmental Protection*

Antimicrobial Resistance Health Education; G. Rhoads, SPH; *New Jersey Department of Health and Senior Services*

Development of Indicators of Gestational Exposure of Infants to Endocrine Disruptor Substances in the New Jersey Population; M. Robson, SPH; *New Jersey Department of Environmental Protection*

Investigation of Endocrine Disruption Effects of Atrazine on New Jersey Frogs; M. Robson, SPH; *New Jersey Department of Environmental Protection*

Emergency Response and Crisis Management; M. Sass, SPH; *Middlesex County Vocational and Technical School*

Evaluation and Technical Assistance in Support of County Coalition Activities and the Comprehensive Cancer Control Plan; M. Sass, SPH; *New Jersey Department of Health and Senior Services*

Illness Management and Recovery Implementation; J. Birkmann, Ph.D., SHRP; *New Jersey Division of Mental Health Services*

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Plasmacytoid Dendritic Cells in Multiple Sclerosis; K. Balashov, RWJMS; *National Multiple Sclerosis Society*

Phytoestrogens; Alcohol and Endometrial Cancer Risk; E. Bandera, RWJMS; *Memorial Sloan-Kettering Cancer Center*

Race & Risk Factors for Aggressive Breast Cancer; E. Bandera, RWJMS; *Mount Sinai School of Medicine*

Improved Image Coregistration Methods for Gene Expression Analysis of Transplanted Progenitor Cells; D. Banerjee, RWJMS; *Rutgers; The State University of New Jersey*

Combination Therapy Selection Trial in Amyotrophic Lateral Sclerosis; J. Belsh, RWJMS; *The ALS Association*

Minocycline in ALS; J. Belsh, RWJMS; *Columbia University*

Store-Operated Calcium Channel and Muscle Fatigue; M. Brotto, RWJMS; *American Heart Association*

Post-Transplant High-Dose MTX ARA-L Consolidation: A Drug Resistance Gene Transfer Strategy for Myeloprotection; T. Budak-Alpdogan, RWJMS; *Lymphoma Research Foundation of America*

Elucidating the Role of Interaction Between Caveolin-3 and MG53 in Muscle Membrane Repair; C. Cai, RWJMS; *American Heart Association*

Myelin Repair After Spinal Cord Injury; P. Casaccia-Bonnel, RWJMS; *Christopher Reeve Paralysis Foundation*

Role of HDAC in Remyelination; P. Casaccia-Bonnel, RWJMS; *National Multiple Sclerosis Society*

Using Illness Visits to Provide Health Behavior Advice; D. Cohen, RWJMS; *Case Western Reserve University*

Treatment of Acute Lymphoblastic Leukemia in Children; P. Cole, RWJMS; *Dana-Farber Cancer Institute*

Genetic Components of Autism Spectrum Disorders; E. DiCicco-Bloom, RWJMS; *Rutgers; The State University of New Jersey*

Identification of Substrates of Channel Kinase TRPM7/ChaK1; M. Dorovkov, RWJMS; *American Heart Association*

Role of BDNF on Oligodendrocyte Lineage Cells in a Cuprizone Model of MS; C. Dreyfus, RWJMS; *National Multiple Sclerosis Society*

Role of (HSP)-32 in Glomerular Microvasculature (RESUB); P. Duann, RWJMS; *American Heart Association*

Controlled Human Exposure-Response Study to Env Levels of Hydrogen Sulfide in Normal Subjects Pilot Investigations and Neurobehavioral Study; N. Fiedler, RWJMS; *American Petroleum Institute*

Mechanism of Thyroid Hormone Dependent Gene Silencing in Heart Muscle; J. Fondell, RWJMS; *American Heart Association*

Contribution of X Chromosome Abnormalities to the Pathogenesis of Human Basal-Like Breast Cancer; S. Ganesan, RWJMS; *Sidney Kimmel Foundation for Cancer Research*

Heterochromatin and the Cohesion of Sister Chromatids; M. Gartenberg, RWJMS; *March of Dimes Birth Defects Foundation*

Analysis of Varying Fiber Densities and distributions on the Mechanical Properties of a Tissue Engineered Meniscus Scaffold; C. Gatt, RWJMS; *Orthopaedic Research and Education Foundation*

Development and Production of a Resource Booklet for Faith Communities on Inclusive Ministries and Supports for People with Autism and their Families; W. Gaventa, RWJMS; *The Daniel Jordan Fiddle Foundation*

Enhancing Pastoral and Congregational Supports for People with Traumatic Brain Injury and Their Families; W. Gaventa, RWJMS; *Brain Injury Association of New Jersey*

Diagnostic Evaluation and Refinement of Procedures for Modeling Exposures to VOCs; P. Georgopoulos, RWJMS; *American Chemistry Council*

The Role of Monocytes in Glioma Angiogenesis; J. Glod, RWJMS; *Children's Brain Tumor Foundation*

Metabotropic Glutamate Receptor-1: Validation of a Serendipitously Discovered Molecular Target for Breast Cancer Treatment; D. Gorski, RWJMS; *American Society of Clinical Oncology*

Characterization of a New Factor in Wnt Signaling; R. Habas, RWJMS; *American Heart Association; Heritage Affiliate*

Non-Canonical Wnt Signaling and Cell Motility; R. Habas, RWJMS; *March of Dimes Birth Defects Foundation*

The Coupling of mRNA Transcription and 3' Formation; M. Hampsey, RWJMS; *Tufts University*

Single Nucleotide Polymorphisms in MDM2 and Perp Significantly Impact Response to DNA Damage; S. Harris, RWJMS; *The Breast Cancer Research Foundation*

Pilot Study of Respiratory Sinus Arrhythmia Biofeedback in Patients with Fibromyalgia Syndrome; A. Hassett, RWJMS; *Arthritis Foundation*

Single Nucleotide Polymorphisms (SNPs) in the p53 and MDM-2 Genes Lower the Age of Onset of Estrogen Receptor Positive Breast Cancers in Women; K. Hirshfield, RWJMS; *The Breast Cancer Research Foundation*

Tropomyosin in Health and Disease I Bioinformatics and Biophysical Approaches; S. Hitchcock, RWJMS; *Muscular Dystrophy Association*

Structural Genomics of Eukaryotic Domain Families Cost Reimbursement; M. Inouye, RWJMS; *Rutgers; The State University of New Jersey*

Generation of MBP Tg Mice to Investigate the Development of MBP specific Tregs; K. Ito, RWJMS; *National Multiple Sclerosis Society*

Mammalian TOR and SIN in Tumor Growth and Metastasis; E. Jacinto, RWJMS; *American Cancer Society*

The Role of Autophagy and the Beclin 1 Gene in Tumor Development; S. Jin, RWJMS; *American Cancer Society*

Study of Paclitaxel (Taxol) and Bortezomib (Velcade) in Patients with Refractory solid Tumor Malignancies Involving an Activated MAPK Pathway; V. Karantza-Wadsworth, RWJMS; *Eastern Cooperative Oncology Group*

Rationally Designed Treatment for Solid Tumors with MAPK Pathway Activation; V. Karantza-Wadsworth, RWJMS; *American Society of Clinical Oncology*

Immuno-Gene Therapy for Prostate Cancer Based on Transforming Growth Factor-Beta Insensitive Macrophages; I. Kim, RWJMS; *New York Academy of Medicine*

Regulation of the Pointed End of the Actin Filament by Tropomodulin; A. Kostyukova, RWJMS; *American Heart Association*

Investigation of Slit Function During Development of the Embryonic Heart; S. Kramer, RWJMS; *American Heart Association*

The Regulation and Interconnections between IGF-1-AKT-in TOR Networks and the p53 Signal transduction Pathway in Breast Cancer; A. Levine, RWJMS; *The Breast Cancer Research Foundation*

Role of CREG in Vascular Smooth Muscle Cell Phenotype Modulation; S. Li, RWJMS; *American Heart Association*

Regulation of Remyelination by Hes5; A. Liu, RWJMS; *National Multiple Sclerosis Society*

Molecular Characterization Niemann-Pick 02 Disease; P. Lobel, RWJMS; *Ara Parseghian Medical Research Foundation*

Functional Behavior Assessment & Behavior Intervention Planning; S. Lohrmann, RWJMS; *New York City Department of Education; Trinitas Hospitals; and St. John's University*

Transforming Coersive Relationships in Family Routines; S. Lohrmann, RWJMS; *The University of British Columbia*

North American Chronic Idiopathic Thrombocytopenic Purpura (ITP) Registry; L. Michaels, RWJMS; *Children's Hospital Boston*

Genetic and Functional Analysis of ENGRAILED 2; a Cerebellar Patterning Gene; J. Millonig, RWJMS; *National Alliance for Autism Research*

Cross Cultural Adaptation and Validation of Lupus Quality; L. Moorthy, RWJMS; *Arthritis Foundation*

Epigenetic Regulation of the A-Synuclein Gene as a Biomarker of Susceptibility to Parkinson Disease; M. Mouradian, RWJMS; *The Michael J. Fox Foundation for Parkinson's Research*

Oxcarbazepine vs. Placebo in Childhood Autism; S. Novotny, RWJMS; *National Alliance for Research on Schizophrenia and Depression*

Couple-Focused Interventions for Breast Cancer Patients; L. Patrick-Miller, RWJMS; *Fox Chase Cancer Center*

Evaluation of Breastfeeding Promotion and Support Programs; A. Petrova, RWJMS; *Association of American Medical Colleges*

An Integrated Approach to Identifying Screening Adolescents; Reproductive Age and Perimenopausal Women for Bleeding Disorders; C. Philipp, RWJMS; *Association for Prevention Teaching and Research*

Modulation of Breast Tumor Growth By Opioid Analgesics/Opioid Receptors; J. Pintar, RWJMS; *University of Minnesota*

Structure and Function Studies of Transforming Growth Factor-B Receptor Germline Mutations in Marfan-Like Syndromes; M. Reiss, RWJMS; *National Marfan Foundation*

Gene-Environment Interactions in Parkinson's Disease; J. Richardson, RWJMS; *The Michael J. Fox Foundation for Parkinson's Research*

ATF-3: A Potential Target Gene for Breast Cancer Cell Growth and Metastasis; N. Selvamurugan, RWJMS; *Susan G. Komen Breast Cancer Foundation*

Molecular Genetic Analysis of Prostate Cancer Stem Cells; M. Shen, RWJMS; *Dean and Betty Gallo Prostate Cancer Center*

Test of Alternative Depression Theory Proximal Causes in Dysphoric Post Acute Coronary Syndrome Patients; C. Skotzko, RWJMS; *Mount Sinai School of Medicine*

Genetic Regulation of Cell Migration and Morphogenesis During C. Elegans Development; M. Soto, RWJMS; *American Heart Association; Heritage Affiliate*

Adjuvant vs Neo-Adjuvant Chemotherapy with Cisplatin and Docetaxel; M. Sovak, RWJMS; *University of Pittsburgh*

Doxorubicin/Taxotere (DT) Followed by Gemcitabine/Cisplatin (CS) in Patients with Locally Advanced/Metastatic Cancer of the Bladder; M. Stein, RWJMS; *University of Maryland*

A Pilot Stepped-Care Approach to Tobacco Dependence Treatment; M. Steinberg, RWJMS; *American Legacy Foundation*

Structural Analysis of NPC2; A. Stock, RWJMS; *Ara Parseghian Medical Research Foundation*

The BDNF Induced Neuropeptide VGF in Human Depression and Animal Models; J. Suss, RWJMS; *National Alliance for Research on Schizophrenia and Depression*

Targeting the Vascular Endothelial Growth Factor Receptor in Early Stage Breast Cancer; A. Tan, RWJMS; *American Society of Clinical Oncology*

Estrogenic Neuroprotection and the Parkinson's Disease Phenotype; M. Thiruchelvam, RWJMS; *The Michael J. Fox Foundation for Parkinson's Research*

Mexican Family Culture and Substance Use Risk and Resilience; W. Vega, RWJMS; *University of California; Davis*

Characterizing the Relationship Between Personal Exposures to VOC's and Behavioral, Socioeconomic, Demographic Variables; S. Wang, RWJMS; *Mickey Leland National Urban Air Toxics Research Center*

Multicenter Trial in Children and Young Adults with Focal Segmental Glomerulosclerosis; L. Weiss, RWJMS; *Montefiore Medical Center*

Integrated Technologies for Polymeric Biomaterials; ResBio-a National Biomedical Technology Resource; W. Welsh, RWJMS; *Rutgers; The State University of New Jersey*

Novel Therapeutic Agents that Target Opioid Receptors; W. Welsh, RWJMS; *Biotechnology Research and Development Corporation*

Reactivation of Methylation-Silenced Genes by Polyphenol; W. Welsh, RWJMS; *Rutgers; The State University of New Jersey*

Training Psychiatrists and Psychiatric Advanced Practice Nurses to Treat Tobacco Dependence; J. Williams, RWJMS; *The American Legacy Foundation*

P8soc Regulation of SOCE in Muscle Physiology and Aging; X. Zhao, RWJMS; *American Heart Association; Heritage Affiliate*

Addressing Tobacco through Organizational Change; D. Ziedonis, RWJMS; *University of California*

Evaluation of the COSIG Initiative; D. Ziedonis, RWJMS; *Advocates for Human Potential*

Telomere Attrition and Cardiovascular Disease; A. Aviv, NJMS; *Washington University*

Mitochondrial-Derived Oxidants and Cellular Responses to Low Dose/Low LET Radiation; E. Azzam, NJMS; *The University of Iowa*

Role of IRF-5 as a Tumor Suppressor in Non-Small Lung Cancer; B. Barnes, NJMS; *Flight Attendant Medical Research Institute*

UH - Ob/Gyn Pre-Term/Pre-Natal Health Project; T. Barrett, NJMS; *March of Dimes Birth Defects Foundation*

Musculoskeletal Oncology at NJMS; J. Benevenia, NJMS; *Musculoskeletal Transplant Foundation*

Intergenerational Transmission of Neglect and Abuse; T. Bentley, NJMS; *Research Foundation CUNY*

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Regulatory Mechanisms of the Crk Adapter Protein; R. Birge, NJMS; *Rutgers, The State University of New Jersey*

Comparing Docetaxel in Combination with Doxorubicin and Cyclophosphamide (TAC) vs Doxorubicin and Cyclophosphamide Followed by Docetaxel (ACT); M. Bryan, NJMS; *Breast Cancer International Research Group*

Fluoxetine in Autism: A 14-Week Study of Fluoxetine on Repetitive Behavior; C. Cartwright, NJMS; *Autism Speaks*

A Multi-Site Trial of Memantine vs. Placebo in Children with Autism Targeting Motor Skills; C. Cartwright, NJMS; *Mount Sinai School of Medicine*

Patient Education in the Emergency Department; Y. Chan, NJMS; *Healthcare Foundation of New Jersey*

Cost-Effectiveness of Intimate Partner Violence Screening and Intervention in Primary Care Settings; P. Chen, NJMS; *American Academy of Family Physicians Foundation*

Chemotherapy in Head and Neck Squamous Cell Carcinoma; E. Cohen, NJMS; *Ruth Estrin Goldberg Memorial for Cancer Research*

Intrinsic Antibiotic Resistance in Mycobacterium Tuberculosis; R. Colangeli, NJMS; *American Heart Association*

Inhibitors of Bacterial RNA Polymerase: "Switch Region"; N. Connell, NJMS; *Rutgers, The State University of New Jersey*

Multiple Sclerosis Research Activities; S. Cook, NJMS; *Segal Family MS Research Fund*

Trypanosome Gene Expression as a Drug Target for Chagas Related Cardiomyopathy; A. Das, NJMS; *American Heart Association, Heritage Affiliate*

A Clinical Approach to Understand Obstacles to the Diagnosis of Chronic Viral Hepatitis; A. De La Torre, NJMS; *Healthcare Foundation of New Jersey*

Program of Cardiac Cell Survival in Ischemic Heart; C. Depre, NJMS; *American Heart Association*

Strategy for the Management of Multi-drug Resistant Tuberculosis in Kampala, Uganda; J. Ellner, NJMS; *Wellcome Trust*

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Correction of Vascular Defects in Id Knockout Hearts by Wnt5a-Induced Compensatory Mechanisms; D. Fraidenraich, NJMS; *American Heart Association*

Embryonic Stem Cells Prevent Duchenne Muscular Dystrophy in MDX Mice; D. Fraidenraich, NJMS; *Muscular Dystrophy Association*

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ALK3 and Atrioventricular Canal Development; V. Gaussin, NJMS; *March of Dimes Birth Defects Foundation*

Microarray-Based Methodologies in TB Research; M. Gennaro, NJMS; *Charities Aid Foundation*

Identifying a Diagnostic Bar-Code for Active Tuberculosis by Whole-Proteome Microarray Chip Technology; M. Gennaro, NJMS; *Foundation for Innovative New Diagnostics*

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CSM Study-A Multicenter Controlled Trial Comparing Dorsal to Ventral Surgery for Cervical Spondylotic Myelopathy; R. Heary, NJMS; *Greenwich Hospital*

Telomere Dysfunction Induced Senescence in Aging Primates; U. Herbig, NJMS; *Ellison Medical Foundation*

The Role of MAP Kinases in Regulating Oxidative Stress and Longevity; A. Ivesa, NJMS; *American Heart Association, Inc.*

Autism, Immunodysregulation, and Autoimmunity; H. Jyonouchi, NJMS; *Autism Research Institute*

Impact of Innate Immunity on Regressive Autism; H. Jyonouchi, NJMS; *Autism Research Institute*

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Development of the Rat Model of TB Disease for Rapid Evaluation of Antimycobacterial Compounds[*Institute of Public Health Brussels, Belgium*]; G. Kaplan, NJMS; *Bill and Melinda Gates Foundation*

Role of Immune Pressure in Effectiveness of TB Chemotherapy; G. Kaplan, NJMS; *Bill and Melinda Gates Foundation*

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Ginkgo Biloba for ECT-Induced Memory Deficits; C. Kellner, NJMS; *Medical University of South Carolina*

The ALIAS Trial: A Multicenter Clinical Trial of High-Dose Human Albumin Therapy for Neuroprotection in Acute Ischemic Stroke; J. Kirmani, NJMS; *University of Miami, School of Medicine*

Genotyping of Mycobacterium Tuberculosis Using SSR's; B. Kreiswirth, NJMS; *University of Texas*

Identifying Molecular Mechanisms that Regulate Expression of the D1 Dopamine Receptor Gene in the Kidney; E. Kuzhikandathil, NJMS; *American Heart Association, Heritage Affiliate*

Adolescent Diet, Hormones and Breast Cancer Susceptibility; N. Lasser, NJMS; *Fox Chase Cancer Center*

Exemestane Plus Placebo vs. Exemestane Plus Celecoxib vs. Placebo in Postmenopausal Women; N. Lasser, NJMS; *National Cancer Institute of Canada*

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Hyperglycemia Promotes Myocyte Apoptosis by Protein Kinase C Pathways; A. Malhotra, NJMS; *American Diabetes Association, Inc.*

RADARS Database System - Researched Abuse, Diversion and Addiction-Related Surveillance; S. Marcus, NJMS; *Denver Health and Hospital Authority*

Surveillance of the RADARS 7 by Poison Control Center: A Pilot Study; S. Marcus, NJMS; *Denver Health and Hospital Authority*

Synaptic Interactions: Formation and Plasticity; J. McArdle, NJMS; *F. M. Kirby Foundation, Inc.*

Role of the Lissencephaly Gene Product, List, in the Regulation of Dynein-Driven Axonal Transport; V. Muresan, NJMS; *March of Dimes Birth Defects Foundation*

X-Ray Crystallographic Studies of Tag RNA Polymerase; A. Mustaev, NJMS; *The Rockefeller University*

The Effect of Anti-IFN-Beta Antibodies on IFN-B Bioavailability in MS Patients; A. Pachner, NJMS; *National Multiple Sclerosis Society*

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The Roles of MSL Complex in Epigenetic Chromatin Organization; Y. Park, NJMS; *American Heart Association, Heritage Affiliate*

Arginine Transport in Cardiac Muscle Cells; R. Peluffo, NJMS; *American Heart Association, Inc.*

Cellular Basis for the Antifungal Activity of Amiodarone; D. Perlin, NJMS; *Johns Hopkins University*

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The Paradigm Trial - Comparing TPF/Chemoradiation (ST) to Cisplatin-Based Chemoradiotherapy with Boost Radiotherapy; L. Pliner, NJMS; *Dana-Farber Cancer Institute*

Ceramide and Na/Ca Exchange; J. Reeves, NJMS; *American Heart Association, Heritage Affiliate*

Retinoids and Bmp2 Expression in Embryos; M. Rogers, NJMS; *American Heart Association, Heritage Affiliate*

The Role of Phospholipase C Activation in the Desensitization of TRPV1 Channels; T. Rohacs, NJMS; *Alexandrine and Alexander L. Sinsheimer Fund*

IL-17 and SOCS Expression in Multiple Sclerosis; C. Rohowsky-Kochan, NJMS; *National Multiple Sclerosis Society*

NO Effect in the Impairment of Counter Regulatory Response to Hypoglycemia (Fioramonti, Zavier); V. Routh, NJMS; *Juvenile Diabetes Research Foundation International*

The Role of Nitric Oxide Ventromedial Hypothalamic Glucose Sensing; V. Routh, NJMS; *Juvenile Diabetes Research Foundation International*

Genetics of Retinopathy in African-Americans with Type 1 Diabetes; M. Roy, NJMS; *Juvenile Diabetes Research Foundation International*

The Signalling Mechanism Controlling Cell Death in the Heart; J. Sadoshima, NJMS; *American Heart Association, Inc.*
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Continuation of Borrelia Sequencing (Index 104740); S. Schutzer, NJMS; *Lyme Disease Association, Inc.*

Metabolic Shift of Mycobacterium Tuberculosis During Infection and Its Regulation; L. Shi, NJMS; *Center for AIDS Research / NYU School of Medicine*

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Calcium Signaling in Dystrophic Heart; N. Shirokova, NJMS; *Muscular Dystrophy Association*

Numerical and Empirical Investigations of Automotive Related Aortic Injury; J. Siegal, NJMS; *Wayne State University*

A Multi-Center Collaborative Project to Understand Pneumococcal Pneumonia, Sepsis and Meningitis Epidemiology in Newark, New Jersey; A. Sinha, NJMS; *Healthcare Foundation of New Jersey*

Extended Analyses of the Health Economics of Pneumococcal Conjugate Vaccine: Herd Immunity; Web-Based Middle Income Country Analysis; A. Sinha, NJMS; *Johns Hopkins University*

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Role of the Mitochondrial Lon Protease in mtDNA Metabolism; C. Suzuki, NJMS; *American Heart Association, Heritage Affiliate*

Exploratory Microarray Studies on Chondrosarcoma; G. Toruner, NJMS; *Ruth Estrin Goldberg Memorial for Cancer Research*

Synaptic Interactions: Formation and Plasticity Program; E. Townes-Anderson, NJMS; *F. M. Kirby Foundation, Inc.*

Mechanism of the Nicotinic Anti-Inflammatory Effects in Sepsis; L. Ulloa, NJMS; *American Heart Association, Inc.*

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RhoGEFs in Cell Growth and Cancer; I. Whitehead, NJMS; *American Cancer Society*

Intergenerational Transmission of Neglect and Abuse; C. Widom, NJMS; *Doris Duke Charitable Foundation*

Study #ACOSOG Z1031 - American College of Surgeons Oncology Group [Duke University]; R. Wieder, NJMS; *American College of Surgeons*

Alcohol Sensitivity of ATP Currents in NAcc Neurons; J. Ye, NJMS; *University of Southern California*

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The Role of GSK-3a in Cardiac Growth, the Development of Cardiac Hypertrophy, and the Progression to Heart Failure; P. Zhai, NJMS; *American Heart Association, Inc.*

Identification of Cytomegalovirus Genes Required for Pathogenesis; H. Zhu, NJMS; *American Cancer Society, Inc.*

Identification of Cytomegalovirus Genes Involved in Pathogenesis; H. Zhu, NJMS; *March of Dimes Birth Defects Foundation*

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The Role of Cyclin C in Tumor Progression; K. Cooper, SOM; *WW Smith Charitable Trust*

Translational Regulation of Germ Cell Fate by FOG-1; R. Ellis, SOM; *American Cancer Society*

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The Effect of Leukoaraiosis in Alzheimer's Disease; D. Libon, SOM; *Alzheimer's Association*

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Cancer and Disparities Research; D. Brown, SPH; *Cancer Institute of New Jersey*

Tobacco Use Among the Mentally Ill: An Overlooked Tobacco Control Issue; C. Delnevo, SPH; *Robert Wood Johnson Foundation*

Factors of Racially Disparate Breast Cancer Treatment; K. Demissie, SPH; *American Cancer Society*

Non-Clinical Factors in Disparate Treatment for Early Breast Cancer Among Blacks and Whites; K. Demissie, SPH; *The Susan G. Komen Breast Cancer Foundation*

Disaster Preparedness for Physicians; G. DiFerdinando, SPH; *Institute of Medicine and Public Health of New Jersey*

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Evaluation Services for Pediatrics Practice Improvement; E. Marshall, SPH; *New Jersey Pediatric Council on Research and Education*

Acute Cardiovascular Responses to Diesel Exhaust Air Pollution in Non-Smokers, Passive Smokers, and Active Smokers: A Controlled Human Exposure Group; O. Osinubi, SPH; *Mount Sinai Education and Research Center*

Triggering of Myocardial Infarction by Ambient Fine Particles and Fine Particle Components; D. Rich, SPH; *American Heart Association*

Performance Evaluation Research for Public Health Outcomes: Recognizing Effective Methods; M. Sass, SPH; *National Network of Public Health Institutes*

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Evaluation of Trenton Spirit Walk Initiative for Isles, Inc; B. West, SPH; *Isles, Inc.*

Molecular and Physiological Responses to Drastic Changes in Particulate Matter Concentration and Composition; J. Zhang, SPH; *Health Effects Institute*

Gap Analysis: Role Delineation Study of the Certified Psychiatric Rehabilitation Practitioner and Substance Abuse and Mental Health Service Administration; C. Pratt, Ph.D., SHRP; *United States Psychiatric Rehabilitation Association*

PRIVATE INDUSTRY

Study to Establish Clinical Benefit and Safety of Vytorin (Ezetimibe/Simvastatin Tablet) vs Simvastatin; J. Agarwal, RWJMS; *Schering-Plough Research Institute*

Multicenter Study to Evaluate Safety of SCH 530348 in Subjects Undergoing Non Urgent Percutaneous; J. Agarwal, RWJMS; *Schering-Plough Research Institute*

Trial Comparing Bevacizumab Therapy with or without Eriotinib after Completion of Chemotherapy; J. Aisner, RWJMS; *Genentech*

Safety Evaluation of Targretin Capsules in Combination with Carboplatin and Paclitaxel; J. Aisner, RWJMS; *Ligand Pharmaceuticals*

Eszopiclone in the Treatment of Insomnia and Associated Symptoms of Fibromyalgia; L. Allen, RWJMS; *Sepracor*

Multicenter Study to Assess the Safety and Contraceptive Efficacy of 2 Doses of the Ultra Low; C. Ayers, RWJMS; *Bayer Healthcare Pharmaceuticals*

Trial of Flibanserin 50 Milligrams to 100 Milligrams Daily in Women with Hypoactive Sexual Desire Disorder; G. Bachmann, RWJMS; *Boehringer Ingelheim Pharmaceuticals*

Multicenter Trial to Evaluate the Efficacy and Safety of a Fesoterodine Flexible Dose; G. Bachmann, RWJMS; *Pfizer*

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Multicenter Study to Determine Efficacy in the Relief of Hot Flushes in Women; G. Bachmann, RWJMS; *Warner Chilcott; P.L.C.*

Multicenter Study in Post Menopausal Women with Low Bone Mineral Density; G. Bachmann, RWJMS; *Novartis Pharmaceuticals*

Multicenter Study to Evaluate the Safety and Efficacy of the 28 Day Oral Contraceptive DR-1021; G. Bachmann, RWJMS; *Duramed Research*

Multicenter Study to Evaluate Efficacy and Safety of 0.65 g and 1.3g Oral Doses; G. Bachmann, RWJMS; *Xanodyne Pharmaceuticals*

An Exploratory Study in Healthy Women Volunteers of Child Bearing Age to Determine the Physiological Premenopausal Pattern; G. Bachmann, RWJMS; *Roche Laboratories*

Long Term Safety of 30 mg and 60 mg Oral Daily Doses Ospemifene in the Treatment of Vulvar and Vaginal Atrophy (VVA) in Postmenopausal Women; G. Bachmann, RWJMS; *Quatrx Pharmaceuticals Company*

The Effect of Dose Titration and Dose Tapering on the Tolerability of Desvenlafaxine in Women with Vasomotor Symptoms Associated with Menopause; G. Bachmann, RWJMS; *Wyeth-Ayerst Pharmaceuticals*

Modulation of Plasmacytoid Dendritic Cell Function by IFN-Beta Treatment in MS; K. Balashov, RWJMS; *Berlex Laboratories*

Systematic Literature Review (SLR) on Food: Nutrition; Physical Activity and the Prevention of Cancer; E. Bandera, RWJMS; *Kaiser Permanente; Division of Research*

Prevalence and Treatment of Anemia in Patients Admitted to Subacute Rehabilitation Hospital; J. Carson, RWJMS; *Ortho Biotech Products; L.P.*

A Possible Role of Mesalamine in Chemoprevention of Colorectal Cancer in Patients with UC Molecular Analysis using a Novel Marker; K. Das, RWJMS; *Proctor and Gamble Pharmaceuticals*

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Novel Monoclonal Antibody Therapy for Ulcerative Colitis; K. Das, RWJMS; *K. S. Biomedix*

Studies of Esophageal Metaplasia Using a Novel Antibody Reversibility of Columnar Metaplasia at the Squamocolumnar Junction; K. Das, RWJMS; *Wyeth-Ayerst Pharmaceuticals*

Laboratory Surrogate Markers of Clinical Response to Glatiramer Acetate in MS; S. Dhib-Jalbut, RWJMS; *TEVA Pharmaceuticals Industries*

Success of Titration; Analgesics; and BETA Nurse Support on Acceptance Rates in Early MS Treatment with Betaseron; S. Dhib-Jalbut, RWJMS; *Bayer Healthcare Pharmaceuticals*

Trial of 2 Deoxyglucose for the Treatment of Advanced Cancer and Hormone Refractory Prostate Cancer; R. DiPaola, RWJMS; *Threshold Pharmaceuticals*

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Role of Human Tropomyosin 5 in the Destruction of Intestinal Epithelial Cells in Ulcerative Colitis: Clinical Implication; E. Ebert, RWJMS; *AstraZeneca Pharmaceuticals LP*

Chronicle Implantable Cardioverter Defibrillator; R. Freudenberger, RWJMS; *Medtronic*

Quality of Life Study of Stereotactic Radiosurgery; Temozolomide and Erlotinib Chemotherapy; M. Gabel, RWJMS; *Genentech*

Study to Evaluate the Single-Dose Pharmacokinetics and Safety of Ceftiofur in Pediatric Subjects; S. Gaur, RWJMS; *Johnson and Johnson Pharmaceuticals*

Multicenter Study Comparing MDX-010 Monotherapy; MDX-010 in Combination with Melanoma Peptide Vaccine; and Melanoma Vac; J. Germino, RWJMS; *Medarex*

Study to Assess the Safety and Pharmacokinetics of BB-10901 (huN901-DM1) Given as an Intravenous Infusion; M. Gharibo, RWJMS; *ImmunoGen*

Plitidepsin (Aplidin) in Combination with Cytarabine in Patients with Relaps Refractory Leukemia (CTA); M. Gharibo, RWJMS; *PharmaMar; S.A.*

Pharmacodynamic Effects of Cyclosporine A Treatment; A. Gottlieb, RWJMS; *Pfizer Pharmaceuticals*

Study of BMS 587101 in Patients with Moderate to Severe Psoriasis; A. Gottlieb, RWJMS; *Bristol-Myers Squibb Company*

Study Evaluating the Long Term Safety of ICA-17043 with or without Hydroxyurea Therapy in Subjects with Sickle Cell Disease; J. Harrison, RWJMS; *Icagen*

Abatacept Leads to Increased Independence in Patients with Treatment Refractory Rheumatoid Arthritis; A. Hassett, RWJMS; *Bristol-Myers Squibb Company*

Flourescent Assay for Free Unconjugated Bilirubin; T. Hegyi, RWJMS; *FFA Science; L.L.C.*

Multicenter Study of the Pilot Trial to Evaluate the Safety and Performance of the Cartilage Autograft Implantation System (CAIS); T. Hosea, RWJMS; *Johnson and Johnson Regenerative Therapeutics and DePuy*

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Evaluation of Long Term Anticoagulant Therapy (RE-LY) Comparing the Efficacy and Safety of Dabigatran Etexilate; J. Kostis, RWJMS; *Boehringer Ingelheim Pharmaceuticals*

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Multicenter Study of Istradefylline (KW-6002) in Subjects with Parkinson's Disease; M. Mark, RWJMS; *Kyowa Pharmaceuticals*

Study of RhuMAb IGFR in Patients w/Advanced Solid Tumors; J. Mehnert, RWJMS; *Genentech*

Multicenter Controlled Comparison of 150 mg-300mg/day of Extended Release Bupropion Hydrochloride; M. Menza, RWJMS; *GlaxoSmithKline*

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Atomoxetine hydrochloride vs. placebo for the treatment of ADHD in adults with an assessment of associated functional outcome; M. Menza, RWJMS; *Eli Lilly Research Laboratories*

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Treatment of Insomnia in Patients with Parkinson's Disease: A Multi-Site Study of Esczopiclone; M. Menza, RWJMS; *Sepracor*

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Efficacy of Aripiprazole vs. Placebo in the Reduction of Aggressive Aberrant Behavior in Autistic Children; S. Novotny, RWJMS; *Bristol-Myers Squibb Company*

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Study Evaluating the Safety and Tolerability of Memantine in Patients w/Moderate to Severe Dementia of the Alzheimer's Type; W. Reichman, RWJMS; *Forest Laboratories*

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Multicenter Study of the Effect of Daily Treatment with MPC 7869; W. Reichman, RWJMS; *Myriad Genetics*

Effects of Bosentan on Morbidity and Mortality in Patients with Idiopathic Pulmonary Fibrosis; D. Riley, RWJMS; *Actelion Pharmaceuticals; Ltd.*

Cachexia Studies II; Y. Ron, RWJMS; *Quigley Pharma*

Study to Assess the Effects of a Single Dose of Vorinostat; E. Rubin, RWJMS; *Merck and Company*

Study to Evaluate the Safety, Tolerability and Pharmacokinetics of XAN-03 in Patients with Advanced Cancer; E. Rubin, RWJMS; *Xanthus Pharmaceuticals*

Study of the IGF-1R Antagonist R0485696 Administered as an Intravenous Infusion on QW and Q3W Schedules; E. Rubin, RWJMS; *Hoffman La Roche*

Study of MetMAb (PRO143966), a Monovalent Antagonist Antibody to the Receptor C-MET; E. Rubin, RWJMS; *Genentech*

Preliminary Study of the Efficacy, Safety and Tolerability of Intravenous SUN N4057; J. Sage, RWJMS; *Dallchi Pharmaceutical Corporation*

Epidemiologic Study of Cystic Fibrosis: A Multicenter Follow-up Study of Patients with Cystic Fibrosis for Monitoring Pulmonary Function; T. Scanlin, RWJMS; *Genentech*

Multicenter Study Comparing Exubera (Registered) Inhaled Human Isulin vs. Humalog; S. Schneider, RWJMS; *Pfizer*

Multicenter Study to Demonstrate the Effect of 24 Weeks Treatment with Vildagliptin 100mg qd as Add On; S. Schneider, RWJMS; *Novartis Pharmaceuticals*

Multicenter Clinical Trial to Compare Rosiglitazone versus Glipizide; S. Schneider, RWJMS; *GlaxoSmithKline*

Study of QR-333 for the Treatment of Symptomatic Diabetic Peripheral Neuropathy; S. Schneider, RWJMS; *Quigley Pharma*

Cardiac Valve replacement Surgery Thromboembolic-Related: Complications - Randomized Trial of Previous and Current Generation Mechanical Prosthesis; P. Scholz, RWJMS; *On-X Life Technologies*

Does Valve Design Impact Sizes that can be Used? A Prospective Research Study; P. Scholz, RWJMS; *Medtronic*

Post Release Customer Preference Evaluation of the Datascope Sensation Intra-Aortic Ballon and the CS300 Intra-Aortic Ballon Pump; P. Scholz, RWJMS; *Datascope Corporation*

Zalypsis and Parp Activity-A Sensitivity Mechanism Linking DNA Damage with Transcription?; K. Scotto, RWJMS; *PharmaMar; S.A.*

Comparative Study of the Matrics and Integneuro Cognitive Assessment Batteries; S. Silverstein, RWJMS; *AstraZeneca Pharmaceuticals LP*

Integrating Decision Sciences with Evidence-Based Medicine (RSA); F. Sonnenberg, RWJMS; *Pfizer*

Study of E7389 in Combination with Carboplatin in Subjects with Solid Tumors; M. Sovak, RWJMS; *Eisai*

Study of Imatinib Mesylate and Gemcitabine for Recurrent Non-Small Cell Lung Cancer (NSCLS); M. Sovak, RWJMS; *Novartis Pharmaceuticals*

The Use of FDA Approved AB5000 Circulatory Support System to Support Best Practices; A. Spotnitz, RWJMS; *Abiomed*

Trial of 2 Deoxglucose (2DG) Alone and in Combination with Docetaxel in Subjects with Advanced Solid Malignancies; M. Stein, RWJMS; *Threshold Pharmaceuticals*

Trial of Anti-Angiogenic Therapy with Oral Cyclophosphamide; Gleevac (Imatinib Mesylate) and Avastin (Bevacizumab); M. Stein, RWJMS; *Novartis Pharmaceuticals*

Trial of a KSP Inhibitor Given as a Constant 24 Hour Infusion in Patients with Advanced Solid Tumors; M. Stein, RWJMS; *Merck and Company*

Trial to Evaluate the Safety and Tolerability of CP-675-206 Administered in Combination with SUO11248; M. Stein, RWJMS; *Pfizer*

Multicenter Study to Evaluate the Safety and Efficacy of Single-Agent Lenalidomide (Revlimo); M. Stein, RWJMS; *Celgene Corporation*

Study of Patupilone and RAD001 in Patients with Refractory Solid Tumor Malignancy; M. Stein, RWJMS; *Novartis Pharmaceuticals*

Tobacco Dependence Treatment for Hospitalized Smokers; M. Steinberg, RWJMS; *Pfizer Pharmaceuticals*

Study of AP23573, an mTOR Inhibitor; in Patients with Relapsed or Refractory Hematological; R. Strair, RWJMS; *Ariad Pharmaceuticals*

Study of BMS-354825 in Subjects with Accelerated Phase Chronic Myeloid Leukemia Resistant to or Intolerant of Imatinib Mesylate; R. Strair, RWJMS; *Bristol-Myers Squibb Company*

Study of BMS-354825 in Subjects with Lymphoid Blast Phase Chronic Myeloid Leukemia; R. Strair, RWJMS; *Bristol-Myers Squibb Company*

Study of BMS-354825 in Subjects with Myeloid Blast Phase Chronic Myeloid Leukemia Resistant to or Intolerant of Imatinib Mesylate; R. Strair, RWJMS; *Bristol-Myers Squibb Company*

Study to Determine the Activity of BMS-354825 in Subjects with Chronic Phase Philadelphia Chromosome-Positive Chronic Myeloid Leukemia; R. Strair, RWJMS; *Bristol-Myers Squibb Company*

Study of Galiximab in Combination with Rituximab Compared with Rituximale; R. Strair, RWJMS; *Biogen Idec*

Trial to Evaluate Palifermin (rHuGF); R. Strair, RWJMS; *Amgen*

Study to Assess the Long-Term Safety and the PK/PD Relationship of GRT6001; R. Strair, RWJMS; *Grunenthal GmbH*

Study to Assess the safety; Tolerability; Efficacy; and Optimal Dosing Intervals of Ascending Doses of GRT6001; R. Strair, RWJMS; *Grunenthal GmbH*

Study of Panopani in Combination with Paclitaxel on a Weekly Schedule; A. Tan, RWJMS; *GlaxoSmithKline*

Study of the CDK Inhibitor R04584820 Administered as an Intravenous Infusion on a Weekly Schedule; A. Tan, RWJMS; *Hoffman La Roche*

Study of Ixabepilone as a 24 Hour Infusion in Patients with Advanced Solid Malignancies; A. Tan, RWJMS; *Bristol-Myers Squibb Company*

Study of HKI-272 in Subjects with Advanced Breast Cancer; A. Tan, RWJMS; *Wyeth-Ayerst Pharmaceuticals*

Capecitabine (Xeloda) and Lapatinil (Tykerb) as First-Line Therapy; A. Tan, RWJMS; *GlaxoSmithKline*

Multicenter Trial to Assess the Efficacy and Safety of Mycophenolate Mofetil (MMF); M. Tiku, RWJMS; *Asperva Pharmaceuticals Corp.*

International Study to Evaluate the Safety and Efficacy of Ocrelizumab Compared to Placebo; M. Tiku, RWJMS; *Genentech*

Study of MRA Monotherapy Versus Methotrexate (MTX); M. Tiku, RWJMS; *Hoffman La Roche*

Study of Safety During Treatment with Tocilizumab (MRA) in Patients Completing Treatment in MRA Core Studies; M. Tiku, RWJMS; *Hoffman La Roche*

Trial of Taxotere and Herceptin in Locally Advanced or Inflammatory Breast Cancer; D. Toppmeyer, RWJMS; *ZLB Behring Corporation*

Study of Lapatinib in Combination with Trastuzumab versus Lapatinib Monotherapy; D. Toppmeyer, RWJMS; *GlaxoSmithKline*

Multicenter Study to Evaluate the Use of Zoledronic Acid in the Prevention of Cancer Treatment Related Bone Loss; D. Toppmeyer, RWJMS; *Novartis Pharmaceuticals*

Study of Oral GW572016 as Single Agent Therapy in Subjects with Advanced or Metastatic Breast Cancer; D. Toppmeyer, RWJMS; *GlaxoSmithKline*

Multicenter Trial in Adult Surgical Subjects Under General Anesthesia; J. Tse, RWJMS; *Organon USA*

Future Revascularization in Patients with Diabetes Mellitus: Optimal Management of Multivessel Disease (Freedom Trial); T. Vagaonescu, RWJMS; *Eli Lilly and Company*

Comprehensive Evaluations of Antimicrobial Resistance Patterns: A Phased Investigation of Bacterial Pathogens and Testing Methods; M. Weinstein, RWJMS; *JMI Laboratories*

Evaluation of the PHOENIX Automated Microbiology System for Susceptibility Testing of Staphylococci and Enterococci; M. Weinstein, RWJMS; *Becton Dickinson*

Evolution of In Vitro Susceptibility of Staphylococcus Aureus Bloodstream Isolates; M. Weinstein, RWJMS; *Cubist Pharmaceuticals*

Mechanisms of Sleep in the Immune Response: Role of Neurofibromatosis-1; J. Williams, RWJMS; *Searle Scholars Program*

Treating Tobacco Dependence in Mental Health Settings; J. Williams, RWJMS; *Pfizer*

Diagnostic Viability of Umbilical Cord Specimens; S. Ali, NJMS; *United States Drug Testing Laboratories*

Sample Processing Cartridges for Rapid PCR B Detection; D. Alland, NJMS; *Cepheid Corp.*

Detection of Mycobacterium Tuberculosis; D. Alland, NJMS; *Cepheid Corp.*

In Vivo Evaluation of Insulin as an adjuvant therapy; K. Beebe, *OREF*

Ranibizumab in Subjects with Dense Cataract and Rubeosis due to Proliferative Diabetic Retinopathy (PDR); N. Bhagat, NJMS; *Genentech*

EXCELS Study: An Epidemiologic Study of Xolair (Omalizumab); L. Bielory, NJMS; *Genentech*

EXTRA Study: "A Study of Xolair in Subjects with Asthma Who Are Inadequately Controlled with High-Dose Inhaled Corticosteroids; L. Bielory, NJMS; *Genentech, Inc.*

Multicenter Study to Assess the Safety of Indacaterol in Patients with COPD using Blinded Formoterol; L. Bielory, NJMS; *Novartis Pharmaceuticals*

Multicenter Study to Assess the Safety of DX-88 (Ecallantide) for Hereditary Angioedema; L. Bielory, NJMS; *Dyax Corporation*

Targeting FKBP52 and Copper Transport in Alzheimer's Disease; R. Birge, NJMS; *Johnson and Johnson*

Bone Mineral Research Study at UMDNJ; J. Bogden, NJMS; *National Starch & Chemical Company*

Temozolomide in Subjects w Advanced Aerodigestive Tract Cancers Selected for Methylation of O2-Methyl-Guanine; M. Bryan, NJMS; *Schering-Plough Research Institute*

Larotaxal in Combination with Weekly Herceptin in Patients with HER2 Metastatic Breast Cancer; M. Bryan, NJMS; *Sanofi-Aventis*

Risperidone in the Treatment of Children and Adolescents with Autistic Disorder; C. Cartwright, NJMS; *Johnson and Johnson*

Multicenter Study to Evaluate the Safety and Efficacy of Tifacogin; S. Chang, NJMS; *Novartis Pharmaceuticals*

Study to Assess the Efficacy and Safety of LX211 in Subjects with Clinically Quiescent Sight Threatening Uveitis; D. Chu, NJMS; *LUX Biosciences, Inc*

A Multi-Center Study of LX 201-01 Corneal Rejection Subjects who are at Increased Immunological Risk; D. Chu, NJMS; *LUX Biosciences, Inc*

Ultrasound Particle Agglutination Sample - Preparation of E. coli and Listeria Samples for their Evaluation by the UPA Method; N. Connell, NJMS; *Allied Innovative Systems*

BEYOND Study: Betaseron-Betaferon Efficacy Yielding Outcomes of a New Dose; S. Cook, NJMS; *Berlex Laboratories*

International Multicenter Study of Subcutaneous Treatment of Patients with Relapsing Multiple Sclerosis; S. Cook, NJMS; *Berlex Laboratories*
Study to Evaluate the Safety of Oral Cladribine-Extension Trial for Subjects who Completed CLARITY Study #25643; S. Cook, NJMS; *Serono Laboratories*

Study of Multiple, Intravaginally Administered, Dosing Regimens of 851B Gel; B. Cracchiolo, NJMS; *3M Pharmaceuticals*

Multicenter Study to Evaluate the Efficacy and Safety of PROCRIT; B. Cracchiolo, NJMS; *Ortho Biotech Products*

Study to Evaluate PROCRIT in Subjects Undergoing Elective Major Abd. Surg; B. Cracchiolo, NJMS; *Ortho Biotech Products*

Safety Study of 2 Doses of Pantoprazole Sodium Enteric-Coated Spheroid Suspension in Infants; E. David, NJMS; *Wyeth-Ayerst Pharmaceuticals*

Testing CC401 in Rat Model of Trauma; E. Deitch, NJMS; *Celgene Corporation*

The Role of C5a Pathway in Ischemia-Reperfusion Injury; E. Deitch, NJMS; *Novo Nordisk Pharmaceuticals*

Testing Factor XIII to Prevent the Development of Multiple Organ Dysfunction Syndrome in a Gut Ischemia - Reperfusion Injury (SMAO) Rodent Model; E. Deitch, NJMS; *Novo Nordisk Pharmaceuticals*

Trial to Study the Safety and Efficacy of MK-7009 in Hepatitis C Patients"; A. Dela Torre, NJMS; *Merck Research Laboratories*

Multicenter Expanded Access Trial of Maraviroc; A. Dieudonne, NJMS; *Pfizer Pharmaceuticals*

Safety Study of Oral Memantine in Daily Doses of 20mg and 10mg in Patients with Chronic Open-Angle Glaucoma; R. Fechtner, NJMS; *Allergan*

Multicenter Comparative Trial to Evaluate the SOLX Gold Shunt for the Reduction of Intraocular Pressure (IOP) in Glaucoma; R. Fechtner, NJMS; *SOLX*

Effect of CD4 Cell Stabilizer on HIV-1 Viral Loads in Cyto-Chex BCT (Streck) vs BD Vacutainer EDTA Tubes in the Roche COBAS; H. Fernandes, NJMS; *Becton Dickinson*

Study of CG1940/CG8711 vs Docetaxel and Prednisone in Patients with Metastatic Hormone-Refractory Prostate Cancer"; G. Guruli, NJMS; *Cell Genesys*

Multicenter Trial Comparing Cervical Arthroplasty to Anterior Cervical Discectomy and Fusion (ACDF) for the T; R. Heary, NJMS; *DePuy*

A Retrospective (Medical Charts) Review of Pts. Treated with Dynamic Anterior Cervical Screw Plate System; R. Heary, NJMS; *Biomet*

In Vitro Assessment of the Effect of Annular Resection on the FSU Expulsion Force, Range of Motion and Wear Properties for the Charite Artificial Disc; R. Heary, NJMS; *DePuy*

A Comprehensive Review of Dorsal Spinal Fusion Surgery Procedures using Selective Cell Retention Technique; R. Heary, NJMS; *DePuy*

Oral Fampridine-SR (10 mg bid) in Patients with MS; M. Hillen, NJMS; *Acorda Therapeutics*

Study to Evaluate the Safety Tolerability and Activity of Oral Fampridine-SR in Patients with MS; M. Hillen, NJMS; *Acorda Therapeutics*

Robust Real World Betaseron Outcomes Study; M. Hillen, NJMS; *Bayer Healthcare Pharmaceuticals*

Carotid Revascularization Endarterectomy vs Stent Trial; R. Hobson, NJMS; *Guidant Corporation*

Multicenter Study Evaluating Efficacy and Tolerability of Single Tablet Regimen of Efacirenz/Emtr; S. Hodder, NJMS; *Bristol-Myers Squibb Company*

Multicenter Trial to Compare the Efficacy, Safety, and Tolerability of PREZISTA/r by Gender and Race; S. Hodder, NJMS; *Tibotec Pharmaceuticals*

Evaluation of Immune Recovery Between Men and Women on a Darunavir Base Regimen Over a 48-Week Period; S. Hodder, NJMS; *Tibotec Therapeutics*

Study to Compare the Safety and Tolerability of DRV/rtv (800/100 mg) q.d. vs. DRV/rtv (600/100 mg) b.i.d.; S. Hodder, NJMS; *Tibotec*

Immunological Research; H. Jyonouchi, NJMS; *International Business Machines*

Study to Evaluate the Safety and Efficacy of SCH 530348 in Acute Coronary Syndrome; E. Kaluski, NJMS; *Schering-Plough Research Institute*

Multicenter Study on Add-On Cladribine Tablet Therapy with Rebif New Formulation in MS Subjects with Active Disease; S. Kamin, NJMS; *Serono Laboratories*

Study Comparing Two Annual Cycles of Low and High Dose Alemtuzumab to Interferon Beta 1a; S. Kamin, NJMS; *Genzyme Corporation*

Natural History of HPV Infection Among Young Norwegian Women; S. Kim, NJMS; *Merck*

Natrecor in Patients Hospitalized for Decompensated Heart Failure; M. Klapholz, NJMS; *Scios*

Multicenter Study to Evaluate the Efficacy and Safety of Aliskiren on Prevention of Left Ventricular Remodeling; M. Klapholz, NJMS; *Novartis Pharmaceuticals*

Multicenter Study of the Effects of KW-3902 Injectable Emulsion on Heart Failure Signs; M. Klapholz, NJMS; *Hesperion USA*

Multicenter Safety and Efficacy Study of Ambrisentan in Subjects with Pulmonary Hypertension, Aries 3; M. Klapholz, NJMS; *Gilead Sciences*

Multicenter Acute Study of Clinical Effectiveness of Nesiritide in Subjects with Decompensated Heart Failure; M. Klapholz, NJMS; *Scios*

Treatment of Hyponatremia Based on Lixivaptan in NYHA Class III - IV Cardiac Patient Evaluation; M. Klapholz, NJMS; *Cardiokine Biopharma*

Study to Evaluate the Safety of Concentration-Controlled Everolimus to Reduce Tacrolimus in Liver Transplant Recipient; B. Koneru, NJMS; *Novartis Pharmaceuticals*

Evaluation of Conversion from Calcineurin Inhibitor Treatment in Liver Allograft Re; B. Koneru, NJMS; *Wyeth-Ayerst Pharmaceuticals*

Designing and Validating a Diagnostic Test for Virulent Isolates to Prevent HAP; B. Kreiswirth, NJMS; *Pfizer*

Short-Term Study; Eldo V. Kuzhikandathil, PhD, NJMS; *Emisphere Technologies*

The Effect of rhPDGF on Diabetic Fracture Healing; S. Lin, NJMS; *Biomimetic Therapeutics*

Multicenter Clinical Trial to Evaluate the Safety and Effectiveness of GEM OSI Compa; S. Lin, NJMS; *Biomimetic Therapeutics*

Study on Adjunctive Use of Pulsed Electromagnetic Fields in the Treatment of 5th Metatarsal Non-Union Fractures; S. Lin, NJMS; *Biomet*

The Use of rhPDGF-BB to Augment Osteogenesis in Diabetes-Related Osteoporosis; S. Lin, NJMS; *Biomimetic Therapeutics*

Surgical Neck Fractures in the Proximal Humerus: A Biomechanical Study Evaluating Modern Fixation Techniques; F. Liporace, NJMS; *Smith & Nephew and Stryker Orthopaedics*

Role of rhBMP-2 Augmentation on Diabetes Related Osteoporosis; F. Liporace, NJMS; *OREF*

Testing of Magnetic Resonance Methods at 1.5 Tesla; W. Liu, NJMS; *MicroMRI*

Pedestrian Safety for Urban Children; D. Livingston, NJMS; *State Farm Insurance Companies and Avis Budget Group*

Evaluating Sex Differences in AntiRetroviral Treatment Outcomes in Urban Population of HIV Infected Treatment; L. Maharaja, NJMS; *Bristol-Myers Squibb Company*

Lamotrigine Extended-Release in Elderly Patients with Epilepsy; D. Marks, NJMS; *GlaxoSmithKline*

Trial of Xyrem in the Treatment of Chronic Fatigue Syndrome; B. Natelson, NJMS; *Jazz Pharmaceuticals*

Study of Cytokine and VNS Therapy; B. Natelson, NJMS; *Cyberonics Pharmacological Methods to Enhance Osteogenesis into Orthopaedic Implants*; J. O'Connor, NJMS; *DePuy*

Analysis of Exogenous BMP-2 Treatment on Fracture Callus Growth Factor Expression; J. O'Connor, NJMS; *Medtronic Sofamor Danek*

IF NB Action in NAb-Negative and NAb-Positive Patients: an INSIGHT Extension Study; A. Pachner, NJMS; *Biogen*

Topiramate Formulations as an Adjunct to Concurrent Anticonvulsant Therapy for Infants With Refractory Partial-Onset Seizures; J. Pak, NJMS; *Johnson and Johnson*

Role of Different OspC Alleles of *Borrelia burgdorferi* in Lyme Pathogenesis; N. Parveen, NJMS; *National Research Fund for Tick-Borne Diseases*

Use of Dexmedetomidine Infusion for Analgesia and Emergence Agitation for Children Undergoing Tonsillectomy and Adenoidotonsillectomy; A. Patel, NJMS; *Hospira*

Distal Femur Defects Reconstructed with Polymethylmethacrylate and Internal Fixation Devices: A Biomechanical Study; F. Patterson, NJMS; *Synthes*

Drug Targets for Tuberculosis; D. Perlin, NJMS; *Merck and Company*

Agomelatine 25 and 50 mg in Prevention of Relapse of Major Depressive Disorder; G. Petrides, NJMS; *Novartis Pharmaceuticals*

Multicenter Study with 3 Oral Dose Groups of AZD3480 in Patients with Schizophrenia; G. Petrides, NJMS; *AstraZeneca Pharmaceuticals*

Study of ET-743 as a Second-Line Therapy in Subjects with Persistent or Recurrent Endometrial Carcinoma; L. Pliner, NJMS; *Johnson and Johnson*

Multicenter Trial of the Continued Efficacy and Safety of Zometa; L. Pliner, NJMS; *Novartis Pharmaceuticals*

Study of Intravenous (IV) Methylnaltrexone Bromide (MNTX); P. Rice, NJMS; *Progenics Pharmaceuticals*

Multicenter Comparative Safety and Efficacy Study of Prophyllactically Administered Pegylated; A. Samanta, NJMS; *Roche Laboratories*

Differential Effects of TNF Blockers on Pneumococcal Infection; S. Schwander, NJMS; *Amgen*

Effects of an Inhibitor of Smooth Muscle Myosin, CK-1827452, on the Peripheral Vasculature in a Conscious Dog Model of Chronic Hypertension; Y. Shen, NJMS; *CV Dynamics*

Quantitative Self-Reporting Arrays for miRNA Profiling; P. Soteropoulos, NJMS; *Rational Affinity Devices*

Multicenter Study to Evaluate the I50L Substitution Among Subjects Experiencing Virologic Failure; A. Stoler, NJMS; *Bristol-Myers Squibb Company*

Testing the Cardiovascular Responses in Katp Inhibitors in Rodent Models of Vascular Dysfunction and Circulatory Shock; C. Szabo, NJMS; *Inotek Pharmaceutical Corporation*

Study of the Effects of Losartan on Proteinuria in Pediatric Patients; C. Uy, NJMS; *Merck*

Study of Once-Daily Oral Rivaroxaban (BAY 59-7939) with Adjusted-Dose Oral Warfarin; A. Voudouris, NJMS; *Johnson and Johnson*

Safety and Feasibility Study of the TheraSight Ocular Brachytherapy System; M. Zarbin, NJMS; *Therics, Inc.*

Multicenter Study to Evaluate the Safety and Tolerability of Ranibuzumab; M. Zarbin, NJMS; *Genentech*

Study to Investigate the Tolerability, Pharmacokinetics and Dosimetry of 90Y-Humanized AFP3; L. Zuckier, NJMS; *Immunomedics*

Study to Investigate the Safety, Tolerability, Pharmacokinetics and Dosimetry of a Single Dose of Y-H; L. Zuckier, NJMS; *Immunomedics*

Multicenter Study of Abatacept in Subjects with Active Rheumatoid Arthritis on Background Non-Biologic DMARDs Who Have an Inadequate Response to Anti-TNF Therapy; S. Burnstein, SOM; *Bristol-Myers Squibb*

Review of Management Strategies in Dementia; A. Chopra, SOM; *Janssen Pharmaceutical Products, LP*

Study of MAP0004 in Adult Migraineurs for a Single Migraine Followed by Open-Label Extension to 26/52 Weeks; J. Coren, SOM; *MAP Pharmaceuticals*

Study to Assess the Efficacy and Safety of 100 mg Enteric-Coated Acetylsalicylic Acid in Patients at Moderate Risk of Cardiovascular Disease; J. Coren, SOM; *Bayer Healthcare AG*

Multicenter Study to Evaluate the Long-Term Safety and Effectiveness of EN3267 in the Treatment of Breakthrough Pain in Cancer Patients; K. Gupta, SOM; *Endo*

Multicenter Study to Assess the Efficacy and Safety of 100 mg Enteric-Coated Acetylsalicylic Acid in Patients at Moderate Risk of Cardiovascular Disease; A. Gupta, SOM; *Bayer Healthcare AG*

The Durability of Twice-Daily Insulin Lispro Low Mixture Compared to Once-Daily Insulin Glargine When Added to Existing Oral Therapy in Patients with Type 2 Diabetes and Inadequate Glycemic Control; A. Gupta, SOM; *Eli Lilly*

Study to Compare Two Dosing Algorithms for Preprandial Human Insulin Inhalation Powder (HIIP) in Insulin-Naive Patients with Type 2 Diabetes Mellitus; A. Gupta, SOM; *Eli Lilly*

Pulmonary Outcomes Within a 2 Year Period in Subjects with Diabetes Mellitus Treated with Technosphere/Insulin or Usual Antidiabetic Treatment and in Subjects Without Abnormalities in Glucose Control; E. Helfer, SOM; *MannKind Corp.*

A Phase II, Multicenter, Randomized, Double-Mask, Placebo-Controlled Study to Evaluate the Efficacy and safety of Intramuscular Peramivir in Subjects with Uncomplicated Acute Influenza; R. Hudrick, SOM; *BioCryst Pharmaceuticals*

Study to Compare Insulin Use and its Effect on Glycemic Control in Patients with Type 2 Diabetes Mellitus: Two Populations with Different Insulin Treatment Options; R. Hudrick, SOM; *Eli Lilly*

Multicenter Study of Subjects With Type 2 Diabetes Mellitus to Evaluate the Efficacy, Safety, and Tolerability of Orally-Administered SGL TS Inhibitor JNJ28431754 and Sitagliptin; R. Hudrick, SOM; *Johnson & Johnson*

Study to Evaluate the Efficacy and Safety of Human Insulin Inhalation Powder (HIIP) in Patients with Type 2 Diabetes Treated with Once-Daily Insulin Glargine; R. Hudrick, SOM; *Eli Lilly*

The Durability of Twice-Daily Insulin Lispro Low Mixture Compared to Once-Daily Insulin Glargine When Added to Existing Oral Therapy in Patients with Type 2 Diabetes and Inadequate Glycemic Control; R. Hudrick, SOM; *Eli Lilly*

Multicenter Study Comparing the Long Term Safety of SYMBICORT® to Budesonide HFA pMDI 160 ug x 2 Actuations Twice Daily in Adult and Adolescent African American Subjects with Asthma; R. Hudrick, SOM; *AstraZeneca*

Multicenter Flexible Dosing Study of Milnacipran for the Treatment of Fibromyalgia; R. Hudrick, SOM; *Forest Research*

Multicenter Study of RX-1741 in the Treatment of Adult Patients with Mild to Moderate Severity of Community-Acquired Pneumonia (CAP); R. Hudrick, SOM; *Rib-X Pharmaceutical*

TREXIMA versus Butalbital-Containing Combination Medications (BCM) for the Acute Treatment of Migraine; R. Hudrick, SOM; *GlaxoSmithKline*

Multicenter Study to Assess the Efficacy and Safety of 100 mg Enteric-Coated Acetylsalicylic Acid in Patients at Moderate Risk of Cardiovascular Disease; R. Hudrick, SOM; *Bayer Healthcare AG*

Multicenter Study to Compare Clinical Health Outcomes of Telithromycin versus Azithromycin in Outpatients with Community-Acquired Lower Respiratory Tract Infections; R. Hudrick, SOM; *Aventis Pharmaceuticals*

Study to Evaluate the Efficacy and Safety of Extended Release (ER) Niacin/Laropiprant in Patients with Type 2 Diabetes Mellitus; R. Hudrick, SOM; *Merck*

Clinical Trial to Study the Efficacy and Safety of MK-0431A in Patients with Type 2 Diabetes Mellitus; R. Hudrick, SOM; *Merck*

Multicenter Study of Seroquel SR™ in Combination with an Antidepressant in the Treatment of Patients with Major Depressive Disorder; R. Hudrick, SOM; *AstraZeneca*

Multicenter Study of Intramuscular Peramivir in Subjects with Uncomplicated Acute Influenza; R. Hudrick, SOM; *BioCryst Pharmaceuticals*

Study of NGX-4010 for the Treatment of Postherpetic Neuralgia; R. Jermyn, SOM; *NeurogesX*.

Duloxetine versus Placebo in the Treatment of Osteoarthritis Knee Pain; R. Jermyn, SOM; *Eli Lilly*

Variable Dose Titration Followed by a Study of Controlled-Release OROS Hydromorphone Compared to Placebo in Patients with Osteoarthritis Pain; R. Jermyn, SOM; *Neuromed Pharmaceuticals*

Multicenter Trial to Assess 2 Different Transdermal Doses of Rotigotine in Subjects with Signs and Symptoms Associated with Fibromyalgia Syndrome; R. Jermyn, SOM; *Schwarz Biosciences*

Multicenter Study to Evaluate Replacement Surgery for End-Stage Joint Disease; R. Jermyn, SOM; *Biovail Technologies and Johnson & Johnson*

Multicenter Study of NGX-4010 for the Treatment of Painful HIV Associated Neuropathy; R. Jermyn, SOM; *NeurogesX*

Treating Patients with Alzheimer's Disease with Significant Leukoaraiosis with Donepezil; D. Libon, SOM; *Eisai*

TREXIMA versus Butalbital-Containing Combination Medications (BCM) for the Acute Treatment of Migraine; L. Mueller, SOM; *GlaxoSmithKline*

Study of Combination Product (Sumatriptan Succinate and Naproxen Sodium) in Migraine Subjects Who Report Poor Response or Intolerance to Short Acting Triptans; L. Mueller, SOM; *GlaxoSmithKline*

Study to Evaluate the Long-Term Safety and Tolerability of Bifeprunox in the Treatment of Outpatients with Schizophrenia; D. Rissmiller, SOM; *Wyeth*

Multicenter Evaluation of the Cataractogenic Potential of Fumarate (SEROQUEL) and Risperidone (RISPERDAL) in the Long-Term Treatment of Patients with Schizophrenia or Schizoaffective Disorder; D. Rissmiller, SOM; *AstraZeneca*

Aripiprazole in Combination with Lamotrigine in the Long-Term Maintenance Treatment of Patients with Bipolar I Disorder with a Recent Manic or Mixed Episode; D. Rissmiller, SOM; *Bristol-Myers Squibb*

Multicenter Study of the Efficacy, Safety and Tolerability of Agomelatine in the Treatment of Major Depressive Disorder (MDD); D. Rissmiller, SOM; *Novartis Pharmaceuticals*

Multicenter Study of the Efficacy and Safety of Seroquel SRR as Monotherapy in the Maintenance Treatment of Patients with Major Depressive Disorder; D. Rissmiller, SOM; *AstraZeneca*

Multicenter Study of the Effect on Weight of Bifeprunox versus Olanzapine in the Treatment of Outpatients with Schizophrenia; D. Rissmiller, SOM; *Wyeth*

Quetiapine Treatment for Symptoms Associated with Borderline Personality Disorder; D. Rissmiller, SOM; *AstraZeneca*

Multicenter Study with 3 Oral Dose Groups of AZD3480 During 12 Week Treatment of Cognitive Deficits in Patients with Schizophrenia; D. Rissmiller, SOM; *AstraZeneca*

Daily Treatment with MPC-7869 in Subjects with Dementia of the Alzheimer's Type; S. Scheinthal, SOM; *Myriad Pharmaceuticals*

Rosiglitazone Extended-Release (RSG XR) as Adjunctive Therapy to Acetylcholinesterase Inhibitors in Subjects with Mild-to-Moderate Alzheimer's Disease; S. Scheinthal, SOM; *GlaxoSmithKline*

Multicenter Study of the Effect of Daily Treatment with MPC-7869 on Measures of Cognitive and Global Function in Subjects with Mild to Moderate Dementia of the Alzheimer's Type; S. Scheinthal, SOM; *Myriad Pharmaceuticals*

The Effects of Rosiglitazone as Adjunctive Therapy to Donepezil on Cognition and Overall Clinical Response to APOE 4-Stratified Subjects with Moderate Alzheimer's Disease; S. Scheinthal, SOM; *GlaxoSmithKline*

Leukotriene D-4; B. Spur, SOM; *Laboratorios Menarini, S.A.*

15-epi-Lipoxin A-4 Free Fatty Acid, Lipoxin A-4 Methyl Ester and Lipoxin A-4 Sodium Salt; B. Spur, SOM; *EMD Biosciences*

Overnite effects of an Essential Oil containing mouthrinse on Oral Bacteria; D. Fine, NJDS; *Johnson and Johnson*

Clinical Investigation to Examine the Effects of 1% Zinc Citrate dentifrice and a Control Dentifrice on Oral Bacteria; D. Fine; NJDS; *Colgate-Palmolive Company*

Biomarkers in Human Benzene Exposure; S. Garte, SPH; *American Chemistry Council*

Pandemic Influenza - Commuter and Transportation Analysis Project; D. Harris, SPH; *Eng Wong, Taub and Associates*

A Retrospective Study on Accumulated Data Files to Identify and Compare the Interactions and Differences between the Diagnoses of Cachexia as Compared to Anorexia; S. Gould Fogerite, Ph.D., SHRP, *Vicus Therapeutics*

The Effects of Almond Consumption on Pre-diabetes; S. Gould Fogerite Ph.D., SHRP, *Almond Board of California*

Effect of Aggressive Renal Osteodystrophy Management on Clinical Outcomes in Stage 5 Chronic Kidney Disease.; L. Byham-Gray Ph.D., SHRP; *National Kidney Foundation-Council on Renal Nutrition*

Wellness in the UMDNJ Workplace: Lifestyle Management Program; R. Touger-Decker, Ph.D., SHRP; *American Heart Association – Heritage Affiliate*

A Needs Assessment for a Predoctoral Fellowship in Nutrition and Cancer; M. Huhmann, DCN, SHRP; *Johnson & Johnson Foundation*

INTERNAL UMDNJ FUNDING

Plasmacytoid Dendritic Cells in Multiple Sclerosis; K. Balashov, RWJMS; *Foundation of UMDNJ*

Treatment of Wound Healing Using Bone Marrow Derived Mesenchymal Stem Cells; D. Banerjee, RWJMS; *University of Medicine and Dentistry of New Jersey*

RWJF Strengthening CINJ's Initiative in Cancer Prevention Control and Population Science; J. Bertino, RWJMS; *Robert Wood Johnson Foundation*

Posttranscriptional Regulation of Oncogene Messenger RNA; G. Brewer, RWJMS; *Foundation of UMDNJ*

Customized Monitoring Neonatal Respiration; J. Chuo, RWJMS; *Foundation of UMDNJ*

Animal Modeling of Antifolate Induced Neurotoxicity; P. Cole, RWJMS; *Cancer Institute of New Jersey*

A Novel Biomarker for Early Detection of Pre-Cancerous Conditions of the Esophagus and Stomach; K. Das, RWJMS; *Foundation of UMDNJ*

Functional Analysis of Bf1-1/A1 in Apoptosis and Oncogenesis; C. Gelinas, RWJMS; *Foundation of UMDNJ*

Mechanisms Regulating the Recruitment of Bone Marrow-Derived Stromal Cells to Stromal Cells to Tumor Stroma; J. Glod, RWJMS; *Foundation of UMDNJ*

Significance of SNP 309 in Early Onset Breast Cancer (Age-Specific Prevalence of SNP in the MDM2 Gene); B. Haffty, RWJMS; *Cancer Institute of New Jersey*

The Impact of Posterior Urethral Preservation on Post-Prostatectomy Urinary Incontinence in the ERA of Robotic Assisted Radical Prostatectomy; J. Hwang, RWJMS; *Foundation of UMDNJ*

Tolerance Induction by Transplantation of Hematopoietic Stem Cell Engineered to Express Myelin Protein Gene; K. Ito, RWJMS; *Foundation of UMDNJ*

Autophagy as a Mammary Tumor-Suppressive Mechanism and a New Therapeutic Target; V. Karantza-Wadsworth, RWJMS; *Cancer Institute of New Jersey*

Role of Bone Morphogenetic Protein Receptor Type II in Prostate Cancer Cells; I. Kim, RWJMS; *Foundation of UMDNJ*

Unique Aspects of Eukaryotic Translation Elongation Factors; T. Kinzy, RWJMS; *Foundation of UMDNJ*

Does Low Dose Spinal Morphine in CaBG Patients Improve Analgesia and Decrease Myocardial Cell Damage and Ischemia?; G. Kiss, RWJMS; *Foundation of UMDNJ*

Formation of Tropomodulin/Tropomyosin/Actin Complex at the Pointed End of the Actin Filament; A. Kostyukova, RWJMS; *Foundation of UMDNJ*

Distribution of Meiotic Crossovers in Human Males; H. Li, RWJMS; *Foundation of UMDNJ*

Role of SGC in Glomerular Immune Injury; E. Lianos, RWJMS; *University of Medicine and Dentistry of New Jersey*

The Distribution of Chromium Species as a Function of Particle Size for Chromium Waste Laden Soil; P. Liroy, RWJMS; *University of Medicine and Dentistry of New Jersey*

Bioinformatic Tools for Identifying Regions of Mutational Susceptibility in Pathogenic Genomes; V. Nanda, RWJMS; *Foundation of UMDNJ*

Design of an Online Set of Modules on Nutritional Genomics; V. Nanda, RWJMS; *AcITAC Educational Technology Grant*

Targeting CXCR2 in Colorectal Cancer; D. Notterman, RWJMS; *Cancer Institute of New Jersey*

Regulation of Innate Immunity at the Maternal-Fetal Interface by Progesterone; M. Peltier, RWJMS; *Foundation of UMDNJ*

Screening for Elongation Factor 2 Kinase Inhibitors: Potential Chemoprotective, Radioprotective and Anti-Aging Agents; A. Ryazanov, RWJMS; *Office of Patents and Licensing*

The Role of MicroRNAs in Human Leukemic Cell Differentiation and Survival; D. Schaar, RWJMS; *Foundation of UMDNJ*

Blended Learning Teaching Module Using an Virtual Reality Simulator for Performing Knee Injeccion: A Pilot Study; N. Schlesinger, RWJMS; *Foundation of UMDNJ*

Balancing Priorities: Healing in the context of Evidence-based Medicine; J. Scott, RWJMS; *Robert Wood Johnson Foundation*

Prediction of Recurrence and Therapeutic Response in Lung Cancer Patients; Z. Selvanayagam, RWJMS; *Foundation of UMDNJ*

Novel Strategies to Treat Tobacco Dependence Among Hospitalized Smokers (Maximal Intensity Treatment for Smokers with Cardiac Disease); M. Steinberg, RWJMS; *Robert Wood Johnson Foundation*

Regulation of Cell Death in Oncogenesis and Therapy Pilot project; E. White, RWJMS; *Cancer Institute of New Jersey*

Transcriptional Regulation of Retinal Development; M. Xiang, RWJMS; *Foundation of UMDNJ*

Study of Casein Kinase 1 of Trypanosoma Brucei; P. Bhanot, NJMS; *Foundation of UMDNJ*

Role of Mer Tyrosine Kinase in the Resolution of Inflammation; R. Birge, NJMS; *Foundation of UMDNJ*

MS Research; S. Cook, NJMS; *Foundation of UMDNJ*

Alcohol and Mesolimbic Glutamatergic Transmissions; J. Ye, NJMS; *Foundation of UMDNJ*

Control of Microcirculatory Exchange Function, W. Duran, NJMS, *UMDNJ Foundation*

Raman Spectrometry Detection of Alzheimer's Disease Biomarkers in the Eye, P. Frederikse, NJMS, *Government Committee on Science and Technology, Foundation of UMDNJ*

Novel Treatments for Levodopa – Induced Dyskinesias (LIP) in Parkinson's Disease, Eldo V. Kuzhikandathil, NJMS, *Foundation of UMDNJ*

Role of GTP in Iron-Sulfur Cluster Biogenesis of Mitochondrial Aconitase; Debkumar Pain, NJMS; *Foundation of UMDNJ*

Candidate Subtypes of Myofascial Face Pain; K. Raphael, NJMS; *Foundation of UMDNJ*

Study of Casein kinase 1 of *Trypanosoma brucei*; V. Bellofatto, P. Bhanot, NJMS; *Foundation of UMDNJ*

Perspectives of Culturally Competent Smoking Cessation Counseling Practices; N. Hymowitz, NJMS; *Foundation of UMDNJ*

Control of Microcirculatory Exchange Function; W. Duran, NJMS; *Foundation of UMDNJ*

Mechanisms of Purkinje Cell Function and Pathology: Role of PMCA2; S. Elkabes, NJMS; *Foundation of UMDNJ*

Multimedia and Multilingual Education for Families and Healthcare Providers of Patients with Craniofacial Deformities; M. Granick, NJMS; *AcITAC Educational Technology Grant*

Development of an In Vivo Model of Hyperthermic Intraperitoneal Chemoperfusion; L. Harrison, NJMS; *Foundation of UMDNJ*

Adenosine In Trauma and Sepsis; G. Hasko, NJMS; *Foundation of UMDNJ*

Cross-Talk Between Opioid and Oncogenic Signaling in Human Multiple Myeloma; R. Howells, NJMS; *Foundation of UMDNJ*

Improving Health Services to Prevent Obesity in Children: Phase II [Univ of Rochester]; M. Johnson, NJMS; *Robert Wood Johnson Foundation*

MS Research Projects at NJMS; S. Kamin, NJMS; *Foundation of UMDNJ*

Improving Treatment and Outcomes for Minority Patients Hospitalized for Heart Failure; M. Klapholz, NJMS; *Robert Wood Johnson Foundation*

ST-Elevation Analysis Using Wireless Technology: Achieving the Golden Hour in Acute Myocardial Infarction (STAT-MI Trial); M. Klapholz, NJMS; *Foundation of UMDNJ*

Poxvirus-Encoded Interferon Antagonists: Interaction with the Cell Surface; B. Koneru, NJMS; *Foundation of UMDNJ*

Neurocognition After Endarterectomy Versus Stent Trial (NEST); B. Lal, NJMS; *Foundation of UMDNJ*

Toll-Like Receptors, Adenosine and Angiogenesis; S. Leibovich, NJMS; *Foundation of UMDNJ*

Proteomic Analysis of Trx1 Mediated Redox Signal Transduction Mechanism; H. Li, NJMS; *Foundation of UMDNJ*

COX-2: Mechanisms of Post-Transcriptional Regulation; C. Lutz, NJMS; *Foundation of UMDNJ*

Hypusine-Dependent Protein Synthesis in Gynecological Cancer; M. Mathews, NJMS; *Foundation of UMDNJ*

Accelerated Bone Fracture Repair by Systemic Inhibition of 5-Lipoxygenase; J. O'Connor, NJMS; *Internal Project*

Role of GTP in Iron-Sulfur Cluster Biogenesis of Mitochondrial Aconitase; D. Pain, NJMS; *Foundation of UMDNJ*

Candidate Subtypes of Myofascial Face Pain; K. Raphael, NJMS; *Foundation of UMDNJ*

Analysis of Human Th17 Cells; C. Rohowsky-Kochan, NJMS; *Foundation of UMDNJ*

Ultra-Sensitive DNA Nanoarray; P. Soteropoulos, NJMS; *Foundation of UMDNJ*

Vitamin D Analogs in Leukemia Therapy; G. Studzinski, NJMS; *Foundation of UMDNJ*

Collaborative Genetic Studies in MS; P. Tolias, NJMS; *Foundation of UMDNJ*

Exploring the Origins of Random Bursts of RNAi; S. Tyagi, NJMS; *Public Health Research Institute*

Use and Evaluation of an Ethnically-Matched Patient Navigator to Increase Minority Patient Recruitment to Breast Cancer Clinical Trials [Susan Komen]; R. Wieder, NJMS; *Foundation of UMDNJ*

Signal Pathway Activation Signature of Cisplatin Resistance in Head and Neck Cancer; R. Wieder, NJMS; *Foundation of UMDNJ*

Alcohol and Mesolimbic Glutamatergic Transmissions; J. Ye, NJMS; *Foundation of UMDNJ*

Macular Degeneration Research; M. Zarbin, NJMS; *Foundation of UMDNJ*

Molecular Organization of Yeast Mitochondrial Transcription Complexes; M. Anikin, SOM; *Foundation of UMDNJ*

Replication Enzymes of Anthrax as Molecular Targets; S. Biswas, SOM; *Foundation of UMDNJ*

Molecular Mechanisms Regulating Age-Dependent Aneuploid Events; K. Cooper, SOM; *Foundation of UMDNJ*

Are the Tob Proteins Conserved Regulators of Germ Cell Fates?; R. Ellis, SOM; *Foundation of UMDNJ*

Apoptosis in Female Germ Cells; R. Ellis, SOM; *Foundation of UMDNJ*

dUTPase as an Effector of Mitochondrial DNA Damage in Normal Cellular Aging and in Response to Chemotherapeutic Agents; J. Fischer, SOM; *Foundation of UMDNJ*

The Role of Cadherins in Contact Normalization; G. Goldberg, SOM; *Foundation of UMDNJ*

Src, Cas, Cx3 and Gap Junctional Communication; G. Goldberg, SOM; *Foundation of UMDNJ*

Identification of Novel Genes That Control Tumor Cell Growth; G. Goldberg, SOM; *Foundation of UMDNJ*

Role of Protein Arginine Methylation in RNA; M. Henry, SOM; *Foundation of UMDNJ*

The Yeast *Saccharomyces cerevisiae* as a Model Organism for Autism; M. Henry, SOM; *Foundation of UMDNJ*

Hypoxia Induced Nuclear-Mitochondrial Protein Transport; M. Henry, SOM; *Foundation of UMDNJ*

Inhibition of p53 Improves Cardiac Function Following MI/R in Rats; P. Liu, SOM; *Foundation of UMDNJ*

Use of Biomarkers to Monitor Patient Response to OMT for Treatment of Chronic Low Back Pain; D. Mason, SOM; *Foundation of UMDNJ*

Identification of Transcription Factors Associated with Mitochondrial RNA Polymerase; W. McAllister, SOM; *Foundation of UMDNJ*

Phenotypic Analysis of Lin28 Mutant Mice; E. Moss, SOM; *Foundation of UMDNJ*

Biomarkers to Identify Possible Risk for Alzheimer's Disease; R. Nagele, SOM; *Foundation of UMDNJ*

Engaging Overweight and Obese Elderly People in Exercise Programs: Strength Training vs. Cardiovascular; R. Pruchno, SOM; *Foundation of UMDNJ*

Phthalate Exposure and Pregnancy Outcome: Supporting Data; P. Stein, SOM; *Foundation of UMDNJ*

Development of an Experimental System for High Throughput Screening (HTS) of Inhibitors of Human Mitochondrial RNA Polymerase; D. Temiakov, SOM; *UMDNJ Council of Research Deans*

Structure and Function of *E. coli* RNA Polymerase Elongation Complex; D. Temiakov, SOM; *Foundation of UMDNJ*

Transcription by a Novel Single Subunit Human Nuclear RNA Polymerase; D. Temiakov, SOM; *Foundation of UMDNJ*

Alzheimer's Disease and ROS-GC Signaling; V. Venkataraman, SOM; *Foundation of UMDNJ*

Predatory Bacteria: Mechanisms involved in predator prey interactions and the use of *Bdellovibrio* to reduce biofilms of oral pathogens; D. Kadouri, NJDS; *Foundation of UMDNJ*

Probing mechanisms of osteocytic bone resorption in periodontal disease; V. Tsiagbe, NJDS; *Foundation of UMDNJ*

Bacteria-Host Cell Interactions in Periodontal Disease; G. Diamond, NJDS; *Foundation of UMDNJ*

Alcohol Use Disorders Treatment Outcomes; P. Clifford, SPH; *Foundation of UMDNJ*

Overweight Children: Assessing the Contribution of the Neighborhood Environment; I. Grafova, SPH; *Foundation of UMDNJ*

Variable Selection for Model Building and Application to the Study of Hormonal Therapy Use in Patients with Metastatic Prostate Cancer; Y. Lin, SPH; *Foundation of UMDNJ*

Relation Between Airborne Pollen Concentrations and Daily Cardiovascular Hospital Admissions; P. Ohman-Strickland, SPH; *Foundation of UMDNJ*

Ambient Air Pollution and the Risk of Fetal Growth Restriction; D. Rich, SPH; *Foundation of UMDNJ*

Consumers/Patients, Information Technology, and Improved Health Outcomes for Patients with Pre-Diabetes and Diabetes; M. Sass, SPH; *Foundation of UMDNJ*

Granule Ingestion Research; J. Zhang, SPH; *Foundation of UMDNJ*

Processes by Which Toxic Chemicals in Synthetic Turf Might be Absorbed into the Bodies of Children and Athletes through Ingestion; J. Zhang, SPH; *Foundation of UMDNJ*

Yoga for Multiple Sclerosis – Developmental Project; S. Gould Fogerite, Ph.D., SHRP; *Foundation of UMDNJ*

Markers of Stress and Inflammation in pre-Type 2 Diabetes; S. Gould Fogerite, Ph.D., SHRP; *Foundation of UMDNJ*

The effect of supervised exercise training on immune, physical, and psychological status in breast cancer patients during their initial cycle of chemotherapy; S. Gould Fogerite, Ph.D., SHRP; *Foundation of UMDNJ*

Guided Imagery and Relaxation Techniques as an Adjunct to Preparing and Recovering from Orthognathic Surgery; S. Gould Fogerite, Ph.D., SHRP; *Foundation of UMDNJ*

Incidence and Degree of Plagiarism among Graduate Health Sciences Students Before and After Implementation of Deterrent Strategies; C. Scanlan, EdD, SHRP; *Foundation of UMDNJ and SHRP*

Information Literacy Skills of Students in the Health Related Professions; C. Scanlan, EdD, SHRP; *Foundation of UMDNJ and SHRP*

Effect of Medical Nutrition Therapy on Overweight/Obese Older Adults Treated by the New Jersey Institute for Successful Aging; L. Byham-Gray, Ph.D., SHRP; *Foundation of UMDNJ and SHRP*

Relationship between metabolic syndrome and periodontal disease among U.S. adults; D. Radler, Ph.D., SHRP; *Foundation of UMDNJ and SHRP*

Social Support for Persons with Schizophrenia; W. Lu, Ph.D., SHRP; *Foundation of UMDNJ and SHRP*

Developing Materials to Help Persons with Psychiatric Illness in Higher Education; M. Mullen, Ph.D., SHRP; Academic Information Technology Committee (ACITAC)

Peer-Delivered Illness Management and Recovery: A Controlled Random Assignment Study; C. Pratt, Ph.D., SHRP; *Foundation of UMDNJ and SHRP*

Peer Employment Support in Self-Help Centers; M. Roberts, Ph.D., SHRP; *Foundation of UMDNJ and SHRP*

Communicating about Health Issues to Persons with Serious Mental Illness; A. Spagnolo, Ph.D., SHRP; Academic Information Technology Committee (ACITAC)

Health Issues Associated with Intimate Partner Violence among Minority Women; R. Btoush, SN; *Foundation of UMDNJ*

Self Care Management of Psychiatric Disorders: A Systematic Review; K. Patusky, SN; *Foundation of UMDNJ*

Multigenerational Legacies of Diabetes and Self-care Decision-making; M. Scollan-Koliopoulos, SN; *Foundation of UMDNJ*

Care Coordinator versus Conventional Care; M. Scollan-Koliopoulos, SN; *International Diabetes Federation/Foundation of UMDNJ*

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CAPITAL PLAN

There are currently no Board-approved capital projects.

BOARD OF TRUSTEES MEMBER PROFILES

ROBERT J. DEL TUFO, Esq.
(Chair)

Robert J. Del Tufo, of counsel with Skadden, Arps, Slate, Meagher & Flom LLP, is Chairperson of the UMDNJ Board of Trustees. He practices primarily in the areas of commercial litigation, environmental law, product liability, white collar defense, and governmental relations.

Mr. Del Tufo was New Jersey's Attorney General from 1990 to 1993. As Attorney General, he headed the Department of Law and Public Safety, which has 11 divisions and approximately 10,000 employees. Among other things, he supervised approximately 500 attorneys providing legal advice to state agencies and representing those agencies in civil litigation. He was also responsible for overseeing New Jersey's criminal justice system.

Mr. Del Tufo served as United States Attorney for the District of New Jersey from 1977 to 1980, where he was responsible for the representation of the federal government in civil litigation and in criminal investigations and prosecutions. He also served as Commissioner of the New Jersey State Commission of Investigation, First Assistant State Attorney General, and Director of New Jersey's Division of Criminal Justice. He sits on the board of many organizations, including the New Jersey Performing Arts Center, the Boys & Girls Clubs of America, Legal Services of New Jersey, and Integrity, Inc. He is Vice Chairman and Trustee of Daytop Village Foundation. He is also a member of the National Association of Former United State Attorneys, a Fellow of the American Bar Foundation, and a member of the Board of Regents of the National College of District Attorneys.

He received his undergraduate degree from Princeton University cum laude and his law degree from Yale University Law School, where he was editor of the Yale Law Journal.

Mr. Del Tufo was appointed to the UMDNJ Board of Trustees in March 2006. His term expires in 2008.

ERIC S. PENNINGTON, Esq.
(Vice Chair)

Eric S. Pennington is an attorney with a Newark practice specializing in employment discrimination and civil litigation. Since 2000, he has served as Municipal Court Judge in the City of Orange Township.

Mr. Pennington was an associate with the Labor and Employment Group of Gibbons, Del Deo, Dolan, Griffinger & Vecchione in Newark and with Paul, Weiss, Rifkind, Wharton & Garrison in New York City from 1995 to 1997. He has clerked for the Honorable Damon J. Keith of the United States Court of Appeals for the Sixth Circuit in Detroit and, prior to that, for the Honorable Robert N. Wilentz, Chief Justice of the New Jersey Supreme Court.

He is a member of the New Jersey State Bar Association, the National Bar Association, the Garden State Bar Association, and the American Bar Association. He is a trustee of the Robert Wood Johnson University Hospital. He received his Bachelor of Science in business administration from Thomas A. Edison State College and his Doctor of Jurisprudence from Rutgers University School of Law.

Mr. Pennington was appointed to the UMDNJ Board of Trustees in January 2001. He was reappointed in December 2004. His term will expire in 2009.

ANITA V. SPIVEY, Esq.
(Secretary)

Anita V. Spivey is an attorney with experience in corporate finance, securities law, environmental and energy matters, as well as public affairs counseling. She has served as in-house counsel for Allied-Signal Inc., in Morristown; General Motors Corporation in Detroit; and Union Texas Petroleum Corporation in Houston. She also was an associate with the law firm of Sutherland, Asbill and Brennan in Washington, DC.

Ms. Spivey is a member of the Brown University Corporation, where she was re-elected in May 2007 to a six-year term. Chair of the Brown University Emeriti Executive Committee, she is Vice Chair of Brown University's Campaign for Academic Enrichment; member of the Pembroke Center Associates Council; and trustee of the E. J. Grassmann Trust, an organization offering grants for educational institutions, hospitals, environmental groups and social service organizations. She has served on the board of directors of the Morris Museum, New Jersey SEEDS, the Newark Literacy Campaign, and the Peck School. Her board work has focused on budget and finance, fundraising, governance, and strategic planning.

Ms. Spivey received an AB degree in political science from Brown University and a JD degree from Georgetown University Law Center. She is admitted to practice law in the District of Columbia, Michigan, New Jersey and Texas.

Ms. Spivey was appointed to the UMDNJ Board of Trustees in July 2006. Her term will expire in 2010

KEVIN M. BARRY, MD, MBA

Kevin M. Barry, MD, MBA is an attending anesthesiologist at Morristown Memorial Hospital. He has served as President of Anesthesia Associates of Morristown since 1994.

Dr. Barry was a Henry Rutgers Scholar and graduated Phi Beta Kappa with a BA in Biochemistry from Rutgers College in 1983. He received his medical degree in 1987 from UMDNJ-New Jersey Medical School. He interned at Memorial Sloan Kettering Cancer Center and then did an anesthesia residency at The New York Hospital and Hospital for Special Surgery, Cornell Medical Center, where he served as the chief resident from 1990 to 1991. In 1995 he received an MBA from New York University's Stern School of Business.

Dr. Barry is a Diplomate of The American Board of Anesthesiology, The American Board of Pain Medicine, and The American Board of Medical Acupuncture and is a Certified Physician Executive of The Certifying Commission in Medical Management.

He is a member of the American Medical Association, New Jersey Medical Society, Morris County Medical Society, American Society of Anesthesiologists, New Jersey State Society of Anesthesiologists, American Academy of Pain Medicine, American Academy of Medical Acupuncture, and American College of Physician Executives. He has served as a consultant in anesthesia to the State Board of Medical Examiners and on the planning committee of the Helms Medical Institute.

He also teaches medical acupuncture to physicians in programs accredited by UCLA and Stanford Schools of Medicine. He serves on the Anesthesia Steering Committee for Health Volunteers Overseas, and has provided medical care and physician training in many countries over the past 20 years. His first trip abroad was as a fourth-year medical student at New Jersey Medical School.

Dr. Barry was appointed to the UMDNJ Board of Trustees in February 2007. His term will expire in 2010.

JAMES BROACH, PhD

James Broach, PhD, currently serves as Associate Director of the Lewis-Sigler Institute for Integrative Genomics at Princeton's Department of Molecular Biology. He is also Associate Chair of the Department of Molecular Biology.

Dr. Broach completed his undergraduate studies at Yale University, where he received a Bachelor of Science degree in chemistry. At the University of California, Berkeley he received a PhD in biochemistry and also completed a predoctoral fellowship in biochemistry, and postdoctoral fellowship in medical physics. In addition, Dr. Broach completed a postdoctoral fellowship at Cold Springs Harbor Laboratory. Prior to joining Princeton in 1984, Dr. Broach was an assistant/associate professor at the State University of New York at Stony Brook.

Dr. Broach has served as a postdoctoral fellow with the American Cancer Society, an investigator with the American Heart Association, a fellow with the American Academy of Microbiology, and a member of the National Institutes of Health's Genetics Section. He has also served as an associate editor for the journals *Cell* and *Molecular and Cellular Biology*.

He was appointed to the Board of Trustees in April 2007. His term will expire in 2012.

MARY ANN CHRISTOPHER, RN, MSN, FAAN

Mary Ann Christopher, RN, MSN, FAAN is President and Chief Executive Officer of Visiting Nurse Association of Central Jersey (VNACJ), a community based organization that provides comprehensive care to individuals and families in Monmouth and Middlesex and contiguous counties. The VNACJ is the largest Visiting Nurse Association in the State and among the largest in the nation. Mrs. Christopher is a registered nurse and has been with the VNACJ for 23 years.

During her tenure as President of VNACJ, Mrs. Christopher, who has been a nurse for 27 years, spearheaded the organization's growth as a leading provider of home care, hospice and community-based services, and has become a leading voice on a wide range of health care issues facing the State. She has served as President of the Home Care Association of New Jersey and is a member of the Executive Advisory Committee to the Commissioner of the New Jersey Department of Human Services.

Mrs. Christopher is a Fellow of the American Academy of Nursing, the Nurse Executive Program at the Wharton School, and the Public Health Leadership Institute of the Centers for Disease Control. She serves on a number of commissions and boards, including the Advisory Council of Seton Hall University College of Nursing. She also serves as Chairman of the Monmouth County Human Services Advisory Committee, and she is a charter member of the Advisory Committee on Aging for the Diocese of Trenton.

Mrs. Christopher earned a Bachelor of Science in Nursing from Fairfield University and a Master of Science in Nursing from Seton Hall University.

Mrs. Christopher was appointed to the UMDNJ Board of Trustees in June 2006. Her term will expire in 2007.

KEVIN M. COVERT, Esq.

Kevin M. Covert, Esq., is the Vice President and Deputy General Counsel for Human Resources at Honeywell International Inc., headquartered in Morristown. At Honeywell, Mr. Covert is responsible for all legal matters including litigation, compliance and corporate transactions relating to labor, employment, employee benefits and compensation. He oversees labor negotiations and the language of collective bargaining agreements.

Prior to joining Honeywell in 1998, Mr. Covert was a shareholder in Kulzer & DiPadova, P.A., in Haddonfield. His practice areas included employee benefits, retirement plans, and compensation planning.

He is a member of the bar in New Jersey and Pennsylvania. He is also a member of the American Benefits Counsel and has served as Chairman of that organization's Government Relations Committee.

Mr. Covert received a BS in Finance from Rider University, an LLM in Taxation from New York University, and a JD from Rutgers University School of Law.

Mr. Covert was appointed to the Board of Trustees in March 2007

MICHAEL CRITCHLEY, JR., Esq.

Michael Critchley, Jr., Esq., is a partner in Critchley & Kinum, a West Orange law firm where he represents individuals and corporations at all stages of federal and state litigation and during regulatory proceedings. Mr. Critchley has also counseled boards of

directors and senior management on internal investigations as well as advised corporations on the implementation of comprehensive compliance systems.

Mr. Critchley received his BA from Rutgers University and his JD from Seton Hall University Law School. He also received an MBA in finance from New York University's Stern School of Business.

Following law school, Mr. Critchley clerked in the United States District Court for the District of New Jersey. His extensive business experience includes several years working at the investment banking firm of Credit Suisse First Boston.

Mr. Critchley was appointed to the UMDNJ Board of Trustees in June 2007. His term will expire in 2011.

MARY SUE HENIFIN, JD, MPH

Mary Sue Henifin, JD, MPH, is an attorney with expertise in environmental and public health law. She is a shareholder in Buchanan Ingersoll & Rooney PC, a law firm with offices throughout the country, including Newark and Princeton. She has served as adjunct faculty member of the UMDNJ-Robert Wood Johnson Medical School's Department of Environmental and Community Medicine. She developed the Public Health Law course for the school, for which she received the Adjunct Faculty of the Year Award.

Ms. Henifin's legal practice focuses on litigation and environmental law, and she represents clients in a wide range of regulatory matters including environmental permitting and compliance with federal, state and local regulations. She is also a member and former Chair of the Lawyers Advisory Committee to the Federal District Court of the District of New Jersey. She previously served as a deputy attorney general for the State of New Jersey.

She has written extensively on public health and is co-author of the New Jersey Brownfields Law and chapters on toxicology and medical testimony in the Reference Manual on Scientific Evidence, a standard work on how to present scientific evidence in court.

A graduate, with honors, from Rutgers University School of Law, Ms. Henifin graduated from Harvard College, cum laude, with a bachelor's degree in biology, and she holds a master's degree in public health from Columbia University.

Ms. Henifin was appointed to the Board in November 2007. Her term will expire in 2012.

BRADFORD W. HILDEBRANDT

Bradford W. Hildebrandt is the founder of Hildebrandt, Inc., an international management and consulting firm that services government agencies, law firms, and other professional service firms. He is recognized as an international authority on the subjects of strategy planning, leadership and organizational development, governance and management, compensation, economics, and mergers. He is acknowledged with creating an industry

standard of specialized tools needed for successful professional management consulting in the legal profession worldwide.

He is a member of the Pace University School of Law Board of Visitors, a faculty advisor and lecturer at the George Washington University School of Professional Services, and a faculty advisor to several universities.

Mr. Hildebrandt, a Merchant Marine officer, is a board member of the Rutgers Institute of Marine and Coastal Sciences.

He earned a BS from Rutgers, the State University of New Jersey, and continued with graduate studies at Pace University in New York.

Mr. Hildebrandt joined the Board in June 2007. His term will expire in 2011.

JOHN A. HOFFMAN, Esq.

John A. Hoffman has been active in business, legal, and community affairs for forty years. He joined the firm of Wilentz Goldman & Spitzer P.A. in 1963, and has been Managing Shareholder since 1997.

Mr. Hoffman has served as counsel to Middlesex County College since its formation in 1964, and is a board member of its Foundation. He has also served as Special Counsel to the Middlesex County Utilities Authority since 1982. He was appointed Redevelopment Counsel to the Housing Authority of the City of New Brunswick and in that role was involved in developing major projects, such as the Hyatt Regency Hotel and The Cancer Institute of New Jersey. Mr. Hoffman also represents the Middlesex County Improvement Authority and was involved in its acquisition of open space property for the county. He also specializes in utility law and represents clients such as Public Service Electric and Gas, Verizon New Jersey, Inc., and New Jersey-American Water Company.

He is a board member and Chairman of the Finance Committee of Robert Wood Johnson University Hospital and past Chairman of the Board of Trustees of the Robert Wood Johnson University Hospital Foundation.

Mr. Hoffman was appointed to the UMDNJ Board of Trustees in May 2003. His term will expire in 2007.

MILTON HOLLAR-GREGORY, Esq.

Milton Hollar-Gregory, Esq., is a graduate of Rutgers Law School and has had more than 30 years of combined experience in law, healthcare, business, and academia. He has particular expertise in government healthcare programs — Medicaid and Medicare. Most recently he consulted on matters of state health policy, assisting the State of Rhode Island's Department of Human Services expand its managed care program to adults, uninsured, elderly, and disabled. He has also been a consultant to county mental health facilities and community health centers.

Mr. Hollar-Gregory has also held various executive leadership positions in the public and private sector, including New York City's Health and Hospital Corporation, Johns Hopkins Health System, and Amerigroup Corporation, the largest Medicaid-only HMO in the country. His responsibilities in his various assignments have encompassed operations, strategic planning, network development, contracting, and marketing and sales.

He is presently an assistant professor of business law and managerial studies with the City University of New York, where he is active in teaching, professional development and community service.

Mr. Hollar-Gregory was appointed to the UMDNJ Board of Trustees in February 2007.

ROBERT J. MARO, JR., MD

Robert J. Maro, Jr., MD, is a member of the volunteer faculty at UMDNJ-Robert Wood Johnson Medical School in Camden, where he is clinical assistant professor of medicine. Dr. Maro has a private practice in general internal medicine and geriatrics; his office is in Cherry Hill.

Dr. Maro served his internship and residency at Cooper University Medical Center in Camden, where he was chief resident in 1983. He is currently a member of the attending staff at both Cooper and Virtua Health System. He has been included among the "Top Docs" for both facilities in SJ, the magazine for South Jersey.

Dr. Maro earned a BS in biology from St. Joseph University in Philadelphia and his MD from Jefferson Medical College there. He is a member of the American College of Physicians, the American Society of Internal Medicine and the New Jersey and Camden County medical societies. He also serves on the Executive Committee of Cooper University Medical Center and as treasurer of the medical staff at the hospital.

Dr. Maro was appointed to the UMDNJ Board of Trustees in June 2007. His term will expire in 2010.

JONATHAN H. ORENSTEIN, DMD

Dr. Jonathan H. Orenstein received his dental degree from Temple University, School of Dental Medicine in 1985 and his Certificate in Prosthodontics in 1987. He has a staff appointment to Cooper University Medical Center, a consulting staff appointment to the Regional Cleft Palate Program and Cooper Trauma Center, and a staff appointment to UMDNJ. Dr. Orenstein was granted a U.S. patent in 1989 on implant-related hardware. He co-authored several articles on various prosthetic topics in refereed journals and presented at various local, national, and international meetings on innovative implant restorative dentistry.

Dr. Orenstein is a Fellow of the Academy of Osseointegration, member of the Board of Trustees and current President of the Delaware Valley Academy of Osseointegration, and is a member of the American College of Prosthodontics, the American Dental Association, and the Southern Dental Society of New Jersey. He is in private practice in Marlton, New Jersey.

Dr. Orenstein was appointed to the UMDNJ Board of Trustees in January 2004. His term will expire in 2008.

OLIVER B. QUINN, Esq.

Oliver B. Quinn is Vice President, Enterprise Business Ethics Officer at Prudential Financial. He also manages the company's employee dispute resolution program. Previously, he was Vice President, Compliance for Prudential HealthCare, where he developed and directed regulatory compliance programs.

Prior to joining Prudential Financial in November 1995, Mr. Quinn held various state and federal positions. These included Deputy Solicitor of Labor for the U.S. Department of Labor in Washington and Deputy Commissioner of Labor for the State of New Jersey. Mr. Quinn also served as an Administrative Law Judge in New Jersey. His experience also includes service as Counsel/Chief of Staff for the New Jersey Department of Public Advocate, Assistant Counsel for the Judiciary Committee of the U.S. House of Representatives, and Assistant Dean at Rutgers University School of Law in Newark. He began his career as a civil rights enforcement attorney with the U.S. Department of Health, Education and Welfare.

Mr. Quinn received his BA in political science from Syracuse University and his JD from Rutgers Law School. He is a member of the Bar in New Jersey and Pennsylvania. He serves on the boards of WBGO-Newark Public Radio and the New Jersey Public Policy Research Institute. He is a member of the National Advisory Board of the Heldrich Center for Workforce Development at Rutgers and a member of the Board of Visitors of Syracuse University's College of Arts and Sciences.

Mr. Quinn was appointed to the UMDNJ Board of Trustees in March 2004. His term will expire in 2008.

HAROLD T. SHAPIRO, PhD

Dr. Harold T. Shapiro, President Emeritus and Professor of Economics and Public Affairs at Princeton University, served as that institution's eighteenth President from 1988 until June 2001. He came to Princeton after 24 years at the University of Michigan, where he served on the faculty and as President from 1980 to 1988.

Dr. Shapiro received a Bachelor's Degree from McGill University in Montreal and, after five years in business, he enrolled in the Graduate School at Princeton, where he earned a PhD in three years. His fields of special interest included econometrics, mathematical economics, science policy and, more recently, bioethics.

He is Chair of the Board of the Alfred P. Sloan Foundation and a trustee of the American Jewish Committee and the Technion-Israel Institute of Technology. He sits on many boards, including: the Dow Chemical Company; HCA; The Hastings Center; DeVry, Inc.; Reading is Fundamental; Knight Foundation Commission on Intercollegiate Athletics; Merck Vaccine Advisory Board; the U.S. Olympic Committee; Princeton HealthCare Systems; and the National Advisory Council for Human Genome Research. He served

as Chair of the National Academies of Sciences Committee on the Organizational Structure of the National Institutes of Health from July 2002 to July 2003.

From 1996 to 2001, Dr. Shapiro served as Chair of the National Bioethics Advisory Commission, and he was a member and Vice Chair of President Bush's Council of Advisors on Science and Technology from 1990 to 1992. Along with his predecessor as President of Princeton, he edited *Universities and Their Leadership*, a compilation of papers presented at a conference on higher education in conjunction with Princeton's 250th anniversary in 1996.

Dr. Shapiro is an elected member of the Institute of Medicine and the American Philosophical Society, a Fellow of the American Academy of Arts and Sciences, and a member of the European Academy of Sciences and of the College of Physicians of Philadelphia.

Dr. Shapiro was appointed to the UMDNJ Board of Trustees in June 2006. His term will expire in 2007.

HEATHER HOWARD, JD (ex officio)

Heather Howard is New Jersey's Commissioner of Health and Senior Services. She is an attorney with 15 years of policy experience at the state and federal level in the areas of child and family issues, women's health, hospital and physician regulations, and health programs for vulnerable populations.

Prior to becoming Commissioner, she was Governor Jon Corzine's counsel on policy issues. She worked closely with the Governor's Commission on Rationalizing Healthcare Resources, a group studying the State's financially stressed healthcare delivery system. She also played a key role in the successful effort to protect New Jersey FamilyCare, the State's health insurance program for low income children and families, from federal funding cuts. Ms. Howard earned her JD cum laude from New York University School of Law and a BA cum laude in history and Spanish from Duke University.

Ms. Howard was sworn in as an ex officio member of the Board on February 19, 2008. Her board term coincides with her tenure as Commissioner of Health and Senior Services.

UMDNJ GOVERNING BOARD CHARACTERISTICS

Race/Ethnicity and Gender of Governing Board

	White	Black	Hispanic	Asian	Ameri- can Indian	Non- Res. Alien	Un- known	Total
Male	10	3	0	0	0	0	0	13
Female	3	1	0	0	0	0	0	4
Total	13	4	0	0	0	0	0	17