

# **JOHN T GANNON, Ph.D.**

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## **Profile**

**After finishing a Postdoctorate at Cornell University in the lab of Dr. Martin Alexander, I was recruited by DuPont in 1991 to start up DuPont's environmental fate lab for industrial chemicals and to provide industrial microbiology for DuPont's businesses. After evolving my role from a lab operation to a corporate expert for environmental fate and microbiological issues, I moved from DuPont's technical career track to the management track. After taking on the role of Research Manager for DuPont's Environmental Fate & Microbiological Sciences, my group gained a strong reputation both internally and externally for delivering on difficult projects of major importance to the corporation and other stakeholders. In addition to my management responsibilities, I have also functioned as the corporate technical expert for strategies and planning related to environmental fate and effects of DuPont's chemicals. In September, 2007, I was promoted to Global Environmental Sciences Leader with corporate leadership responsibility for DuPont's 3 Environmental Sciences groups – Environmental Fate & Exposure, Environmental Toxicology, and Applied & Environmental Microbiology.**

## **Experience**

**Global Environmental Sciences Leader, September, 2007 – Present**

**DuPont**

**Haskell Global Centers for Health & Environmental Sciences**

- **Responsible for leading the formation of the corporate Environmental Sciences organization which was formed by the merger and integration of DuPont's three Environmental Sciences groups:**
  - **Environmental Fate & Exposure**
  - **Applied & Environmental Microbiology**
  - **Environmental Toxicology**
  
- **In addition to administrative responsibilities, this role includes technical oversight of DuPont's Environmental Sciences programs plus technical leadership responsibilities such as leading:**
  - **Development of environmental sciences strategies for new and existing chemicals within the**

- DuPont chemical inventory.
  - Strategic planning and implementation of alternative chemical assessment technologies (e.g., *in silico* & *in vitro*).
  - Integrating environmental planning into biotechnology and nanotechnology R&D / initiatives.
- Received DuPont Sustainable Growth Excellence Award as part of the DuPont team that worked with Environmental Defense Fund to develop the NanoRisk Framework.
  - NanoRisk Framework established a process that can be widely used by companies and other organizations to ensure the responsible development of nanomaterials.
  - Role on team was corporate environmental sciences expert for DuPont.
- Leader of joint DuPont – BP Environmental team focused on biofuels.
- Corporate environmental expert for DuPont’s Nanotechnology Advisory Team.
- Invited by the Federal Government Inter-Agency Working Group of the National Nanotechnology Initiative-Nanotechnology Environmental and Health Implications (NNI-NEHI) to be one of two industrial representatives on the NNI-NEHI Planning Team for an upcoming NNI-NEHI workshop focused on assessing the state of the art of the science for “Nanomaterials and the Environment” and “Instrumentation, Metrology & Analytical Methods” as it relates to nanomaterials and the environment. This workshop is part of on-going efforts to identify Environmental, Health, and Safety (EHS) research needs for the Federal Government.

**Research Manager, March, 1999 – September, 2007**

**DuPont**

**Central Research & Development**

**Environmental Fate & Microbiological Sciences & Engineering**

During this time span, my group was part of:

1. DuPont’s Corporate Center for Engineering Research from 1999-2003, where we successfully focused on connecting biological sciences with engineering.
  2. DuPont’s Biochemical Sciences & Engineering Division from 2003-September, 2007, where we successfully focused on providing environmental and microbiological support for the industrial biotechnology R&D community.
- R&D Manager for the Environmental Fate & Microbiological Sciences & Engineering group within DuPont’s Central Research & Development
  - Group functions as corporate resource for providing:
    - Environmental fate assessments and/or addressing environmental questions for DuPont’s industrial chemicals.
    - Environmental / industrial microbiology expertise for corporation.
    - Mix of long-term R&D projects (typically 15+ per year) + short-term fire-fighting projects (typically 10+ per year).
  - Viewed as DuPont corporate expert for environmental fate issues with responsibility for leading

development of technical strategies to address e-fate issues.

- Led design of environmental fate studies plan for chemicals of regulatory interest.
- Member of Corporate Global Safety, Health, and Environment (SHE) Leadership Team – provided team with perspectives on potential environmental issues/concerns.
- Member of DuPont’s internal Nanotechnology Advisory team with responsibilities for providing corporate-wide guidance on environmental aspects related to nanotechnology.
- Member of DuPont – Environmental Defense team that worked on a Product Stewardship Framework for nanotechnology – Role is DuPont’s environmental fate and effects expert.
- Regulatory Interactions
  - Worked with the US EPA to strongly influence the development of the US EPA PBT Profiler – i.e., Persistence, Bioaccumulation, Toxicity Screening Tool - which was based on the DuPont P&B Tool, which I developed for DuPont in the late 90s.
  - Served for three years as 1 of 3 industry experts on the Environment Canada Technical Advisory Group, which had responsibility for developing the technical strategy for prioritizing chemicals of concern (i.e., PBT assessment) on the Canadian Domestic Substances List.
  - Regularly invited to participate on EPA focus groups for chemical prioritization for environmental concerns.
  - BIAAC representative on OECD-UNEP Council for Multimedia Modeling for estimating overall persistence and long-range transport.
  - Active participant in EPA ECA discussions for perfluorinated and served on EPA ECA Technical Experts Panel charged with developing an environmental fate/biodegradation plan for perfluorinated telomers.
  - Interactions with USDA – Plum Island related to DuPont molecular diagnostics project for detecting Foot & Mouth Disease in livestock.
  - Invited participant for EPA Endocrine Disruptor Screening Program; Priority-Setting Workshop.
- Technical Management responsibilities include the following competencies:
  - Environmental fate of DuPont Chemicals (products, product formulation components, process chemicals, by-products, wastes, etc).
  - Determine how chemicals distribute in the environment upon release via emissions or product life cycles.
  - Determine how a chemical breaks down in the environment and what are the stable metabolites that may be found in the environment.
  - Development of remediation technologies including bioremediation and phytoremediation.
  - Evergreen development and maintenance of the DuPont P&B (Persistence & Bioaccumulation) Prioritization Screening Tool and Database.
  - Environmental/ Industrial Microbiology: Product development, biodegradable green products, preservation (antimicrobial) products, biocide efficacy in industrial processes, and molecular diagnostics for detection of microorganisms.
  - Chair of the DuPont Wilmington Area Biosafety Committee.

## **Senior Research Scientist 1995 – 1998**

### **DuPont**

#### **Central Research & Development**

- Created DuPont P&B (Persistence & Bioaccumulation) Tool and database, which became the DuPont corporate standard for screening and prioritizing chemicals of concern. Received DuPont Sustainable Growth Excellence Award.
- Worked closely with the EPA on the PBT (Persistent Bioaccumulative Toxins) issue and shared knowledge of the DuPont P&B Tool with the EPA to meet DuPont objective of influencing the use of good science and best available tools for chemical prioritization.
  - This interaction with the EPA, for over 5 years, strongly influenced the development of the EPA PBT Profiler, which was released in 2002 on the EPA web-page.
- With a recommendation from the U.S. EPA as 1 of the top 2 leading industrial experts for Environmental fate & PBTs, was invited by Environment Canada to participate on their Technical Advisory Group for developing the technical strategy / plan for addressing the chemicals of concern prioritization of the Domestic Substances List (DSL).
- Served as lead microbiologist on DuPont product development team for Biomax®, which is DuPont's hydro-biodegradable plastic product.
- Provided microbiology support to several DuPont businesses with focus on troubleshooting microbial contamination in industrial processes or products. Work included tracking sources of contamination, identifying effective biocides for eliminating problems, and development of treatment and monitoring plans.

## **Research Scientist 1991 – 1994**

### **DuPont**

#### **Central Research & Development**

- Initiated Microbiology programs described above.
- Established in-house expertise for Indoor Air Quality (IAQ) and served as microbiologist on corporate team that addressed IAQ issues.
- Created DuPont's corporate environmental fate assessment lab for industrial chemicals.
- Established links with the US EPA and other regulators to help DuPont's understanding of environmental fate needs with PMN submissions.

**Postdoctoral Training**  
**Cornell University, Ithaca, NY**

- **Postdoctoral Research Associate in the laboratory of Dr. Martin Alexander, a world-renowned expert for environmental fate and biodegradation of chemicals.**
  - Worked on EPA-funded project focused on understanding movement of microorganisms in soils and aquifers with respect to bioavailability and biodegradation of chemical contaminants.
  - 6 peer-reviewed publications

**Education**

<b><u>COLLEGE/UNIVERSITY</u></b>	<b><u>MAJOR</u></b>	<b><u>DEGREE</u></b>
New York University	Microbiology	PhD
New York University	Microbiology	MS
St Peter's College	Biology/Chemistry	BS
Jersey City State College	Computer Science	20 credits

**Certifications:**

- Certified Six-Sigma Green Belt in 2002

**Publications:**

- Over 1,000 DuPont internal publications tied to environmental fate and industrial microbiology.
- Several external peer-reviewed publications – available upon request.

**PROFESSIONAL SOCIETIES:**

- Society of Environmental Toxicology & Chemistry (SETAC)
- American Society for Microbiology