

**James C. Lamb, IV, Ph.D., DABT, Fellow ATS**  
**Principal Scientist and Center Director**

**Professional Profile**

Dr. James C. Lamb is a Principal Scientist and the Director of Exponent's Health Sciences Center for Toxicology and Mechanistic Biology. He has extensive experience in toxicology, risk assessment, and scientific and regulatory policy. His publications reflect his unique experience in endocrine disrupting chemicals, reproductive and developmental toxicants, carcinogens, and systemic toxicity. He is a Diplomate of the American Board of Toxicology and a Fellow of the Academy of Toxicological Sciences. Dr. Lamb served as President of the American Board of Toxicology and served on numerous other scientific boards or committees. He is currently on the Board of Directors for the Academy of Toxicological Sciences, and President of the Regulatory and Safety Evaluation Specialty Section of the Society of Toxicology (SOT).

Dr. Lamb has worked in various federal government positions. Dr. Lamb was the Head of the Fertility and Reproduction Group at the National Toxicology Program (NTP), where he developed new toxicology testing systems, evaluated new systems, and tested substances for reproductive and developmental toxicity. He also served as a chemical manager for general toxicity assessment for various chemicals at the NTP. Dr. Lamb then moved to the U.S. Environmental Protection Agency as the Special Assistant to the Assistant Administrator for Pesticides and Toxic Substances. Dr. Lamb has provided consulting services to numerous clients for over twenty years. Over the years he has worked on issues affecting pesticides, industrial chemicals, consumer products, pharmaceuticals, medical devices, and food additives.

Dr. Lamb served on several National Academy of Sciences committees on risk assessment, endocrine disruption, and toxicology. He has served on various ILSI panels, including one that made substantial contributions in Agricultural Chemicals Safety Assessment, and still serves as an academic advisor to the ILSI Committee on Developmental and Reproductive Toxicology. He sits on the SOT's Awards Committee and the Professional Needs Assessment Task Force. He has recently served on contract review committees for the National Institute of Mental Health and the National Institute of Environmental Health Sciences. He is an Associate Editor of the journal *Environmental Health Perspectives*. He has published over a hundred peer-reviewed publications and numerous abstracts and book chapters.

**Academic Credentials and Professional Honors**

J.D., North Carolina Central University School of Law (*magna cum laude*), 1986  
Ph.D., Pathology, University of North Carolina, 1975  
A.B., Chemistry, University of North Carolina, 1973

## Licenses and Certifications

Admitted to the Bar of the District of Columbia, 1988  
Diplomate of the American Board of Toxicology, 1981  
Fellow, Academy of Toxicological Sciences (ATS)

## Publications

Lamb J, Hentz K, Schmitt D, Tran N, Jonker D, Junker K. A one-year oral toxicity study of sodium stearoyl lactylate (SSL) in rats. *Food Chem Toxicol* 2011, 48:2663–2669.

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### **Letters to Editor, Books and Book Chapters**

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Lamb JC, Ross MD, Dozier M, Allen K, Keel JR. Morphological and biochemical responses to continuous chlorlecone exposure. North Carolina Chapter, Society of Toxicology, 3<sup>rd</sup> Annual Meeting, 1983.

Kimmel CA, Lamb JC, IV, Hardin BD. Approaches to reproductive and developmental toxicology testing in the National Toxicology Program. *Arch Androl* 1982; 9:46.

Kimmel CA, Lamb JC, IV, Hardin BD. Approaches to reproductive and developmental toxicology testing in the National Toxicology Program. *Contraceptive Delivery Systems* 1982; 3:151A.

Kluwe WM, Gupta B, Lamb JC. Comparative effects of 1,2-dibromo-3-chloropropane (D) and its metabolites epichlorohydrin (E), alphachlorohydrin (A) and oxalic acid (O) in the urogenital tract. *The Toxicologist* 1982; 2:136. (1982 ASPET meeting).

Lamb JC, IV, Moore JA. Effects of phenoxy acid herbicides on male reproductive function. *Arch Androl* 1982; 9:47.

Lamb JC, IV, Moore JA. Effects of phenoxy acid herbicides on male reproductive function. *Contraceptive Delivery Systems* 1982; 3:297A.

Lamb JC, Harris MW, McConnell EE, Jameson CW, Allen JD, Ross MS, Moore JA. Effects of subchronic exposure to chlordecone on the fertility of female rats. North Carolina Chapter, Society of Toxicology, Second Annual Meeting, Research Triangle Park, North Carolina, January 1982.

Lamb JC, Ross MD, Allen KM, Dozier MM, Reel JR. Differential estrogenic response of the pituitary and uterus to Kepone (chlordecone) in the Fischer (F344). *Rat Biol Reprod* 1982; 26(suppl. 1):109A.

Lamb JC, IV, Marks TA, Moore JA. Evaluation of the toxicity of phenoxy acid mixtures in male mice. North Carolina Chapter, Society of Toxicology, 1<sup>st</sup> Annual Meeting, Research Triangle Park, NC, February 1981.

Lamb JC, IV, Korach KS. Differential uptake of labeled estradiol by various cell types of the mouse uterus. *Endocrinology* 1980; 106 (suppl.):128.

Lamb JC, IV, McLachlan JA. Structural abnormalities in the lumen of the female mouse genital tract following prenatal exposure to Diethylstilbestrol (DES). *Anat Rec* 1979; 193:597.

Lamb JC, IV, Suzuki, Y, McLachlan JA. Analogous structures in the male and female genital tract of mice treated in utero with diethylstilbestrol. *Environ Health Perspect* 1979; 33:318-319.

McLachlan JA, Lamb JC, IV, Stumpf WE. Altered surface epithelium in the female mouse genital tract following prenatal exposure to Diethylstilbestrol. *J Tox Environ Health* 1977; 3:366.

McLachlan JA, Newbold RR, Lamb JC, IV. Genital tract abnormalities in mice following gestational exposure to DES. *Environ Health Perspect* 1977; 20:240.

Stumpf WE, Hellreich MA, Aumuller G, Sar M, Lamb JC, IV. The Collicular Recess Organ, the Collicular Recess, and the Velum Medullar: Ependymal Specializations and Secretion. *Ant Rec* 1977; 189:273.

Lamb JC, IV, Nopanitaya W, Shinoda BA. Influence of vagotomy on duodenal fat absorption. *Proceedings, 33<sup>rd</sup> Annual Electron Microscopy Society America*, pp. 410-411, Las Vegas, NV, 1975.

Geratz JD, Lamb JC, IV. Reduced sensitivity of the rat pancreas to secretagogues following ligation of the proximal common bile duct. American Pancreatic Study Group, Chicago, IL, October 1974.

Geratz JD, Lamb JC, IV. Influence of bile duct ligation on exocrine pancreatic secretory activity in the rat. American Pancreatic Study Group, Chicago, IL, November 1973.

### **Additional Professional Recognition**

Symposium speaker, Symposium on Children's Environmental Health, "Identifying and Preventing Environmental Risks," Bethesda, MD, February 24–26, 2003.

Invited speaker, University of Connecticut, "Endocrine Disruption Chemicals: Fact or Fiction," Storrs, CT, April 9–10, 2001.

Symposium organizer and speaker, International Symposium on Environmental Endocrine Disruptors 2000, Pacifico Yokohama, Japan, December 16–18, 2000.

Invited speaker, 2000 Superfund Managers Symposium, "Human Risks and Endocrine Disrupting Chemicals," Scottsdale, AZ, August 14–16, 2000.

Invited speaker, Emerging Issues Conference, "Pesticides as Endocrine Disruptors," Minneapolis, MN, June 8, 2000.

Invited speaker, Toxic Torts and Environmental Law, "The Future is a Terrible Thing to Waste: How Toxicology is Addressing the Field of Children's Health and Endocrine Disruption," San Antonio, TX, March 2–3, 2000.

Invited speaker, 25<sup>th</sup> Annual Winter Toxicology Forum, "The NAS Report: A Viewpoint," Washington, D.C., February 7–9, 2000.

Symposium organizer and speaker, International Symposium on Environmental Disruptors, "Assessing the Human Health Risks from Exposures to Hormonally Active Agents," Kobe, Japan, December 13, 1999.

Invited speaker, Environmental Law Institute and The Society for Risk Analysis, "Emerging Issues in Risk Science and Their Effects on the Practice of Law," Washington, D.C., October 8–9, 1999.

Invited speaker, Chemical Producers and Distributors Association (CPDA), "Progress in Endocrine Disruption Testing – The Good, The Bad, and The Ugly," Alexandria, VA, June 16, 1999.

Invited speaker, Government Institutes, "The Role of Risk Assessment in Food Quality Protection Act," Orlando, FL, April 22–23, 1999.

Discussion leader, Gordon Conference – Mechanisms of Toxicity–Endocrine Disruptors, New England College, Henniker, NH, July 28, 1998.

Invited speaker, Society for Risk Analysis Forum. Protecting Sensitive Groups As Mandated By the FQPA and the SDWA: Can Science Meet the Challenge? “FQPA & SDWA: Minimal Protection and Significant Burden?” Alexandria, VA, June 29, 1998.

Invited speaker, Association of The Bar, City of New York. “Emerging Threats and Risk Assessment: Special Considerations About Children’s Health,” Manhattan, NY, June 12, 1998.

Invited speaker, American Industrial Hygiene Association, “The Legal Status of Endocrine Modulators in the Workplace,” Atlanta, GA, May 12, 1998.

Invited speaker, American Crop Protection Spring Conference. “Changes in the Risk Assessment Paradigm Under the FQPA,” Arlington, VA, April 23, 1998.

Invited speaker, American Forest and Paper. “Risk Assessment of Hormonally Active Agents,” Washington, D.C., April 21, 1998.

Invited speaker, International Business Communications Third Annual International Congress – Endocrine Disruptors. “Risk Assessment of Hormonally Active Agents,” Washington, D.C., April 14–15, 1998.

Invited lecturer, John Hopkins University. “Topics in Risk Assessment,” Baltimore, MD, April 8, 1998.

Invited speaker, 23rd Annual Winter Toxicology Forum. “Current Methods for Assessing Risks to Children’s Health,” Washington, D.C., February 3, 1998.

Invited speaker, EDSTAC Low Dose Workshop. “General Principles of Dose–Response Assessments and Overview of Studies in Progress to the Low Dose–Response Controversy,” Washington, D.C., February 2, 1998.

Invited speaker, International Life Sciences Institute Conference on Human Diet and Endocrine Modulation: Estrogenic and Androgenic Effects, Fairfax, VA, November 19–21, 1997.

Invited speaker, 8th North American International Society for the Study of Xenobiotics (ISSX) Meeting. Short course entitled “Endocrinology Issues: Basic Science, Environmental Concerns and Practical Issues,” Hilton Head, SC, October 26–30, 1997.

Harvard Center for Risk Analysis (HCRA) Advisory Committee on Agriculture and Human Health, Boston, MA, September 8–9, 1997.

Invited speaker, On behalf of SePRO Corporation for meeting in Austin, TX, August 28, 1997.

Invited speaker, American Bar Association, Section of Science and Technology, Annual Meeting, “The New Cancer Scare of the 1990s—Endocrine Disruptors: Playing Havoc with the Human Hormone System,” San Francisco, CA, August 1–6, 1997.

Invited speaker, GE Plastics, “The Environmental Endocrine Issue: Risk Assessment and Regulation,” Indianapolis, IN, July 31, 1997.

Invited speaker, Chemical Manufacturers Association/APE, Annapolis, MD, July 23, 1997.

Invited speaker and Session Chairman: National Institute Environmental Health Sciences, “Estrogens in the Environment,” Crystal City, Arlington, VA, July 21–23, 1997.

Invited to attend Risk Assessment Seminar at Johns Hopkins, Washington Center, Washington, D.C., June 25, 1997.

Invited speaker, SePRO Corporation, “Safety Assessment of Sonar,” Tallahassee, FL, June 12, 1997.

Invited speaker, Resources for the Future, Society for Risk Analysis, “Uncertainty about the Extra 10x Uncertainty Factor,” Washington, D.C., June 10–11, 1997.

Invited speaker, Chlorine Chemistry Council, Louisiana Public Health Association, “Chlorine Chemistry: A Partner in Public Health,” Baton Rouge, LA, May 28–29, 1997.

Invited speaker, Chemical Manufacturers Association, talk to Congress, Washington, D.C., May 23, 1997.

Invited speaker, Society of Toxicology, Allegheny–Erie Regional Chapter, “Endocrine Disrupting Chemicals: Practical Concerns and Regulatory Implications,” Pittsburgh, PA, May 16, 1997.

Invited speaker, Johns Hopkins School of Public Health, “Endocrine Disrupting Chemicals: Practical Concerns and Regulatory Implications,” Baltimore, MD, May 7, 1997.

Arts and Creative Materials Institute, Annual Technical/Certification Meeting, April 30, 1997.

Invited speaker, Harvard Center for Risk Analysis (HCRA), Advisory Committee on Agricultural Health Risks, Research Triangle Park, NC, April 10, 1997.

Novartis, Atrazine Research/Consensus Panel Meeting: Recommendations for Additional Research, Hilton Head, SC, April 20–23, 1997.

National Academy of Sciences/National Research Council Board on Chemical Sciences and Technology and National Materials Advisory Board, “Risk Assessment (NRC Committee on Marking Rendering Inert, and Licensing of Explosive Materials),” Washington, D.C., March 24–25, 1997.

Invited speaker, Society of Toxicology, Annual Meeting, Cincinnati, OH, March 9–13, 1997.

Invited speaker, Grocery Manufacturers Association, “Endocrine Disrupting Chemicals: Practical Concerns and Regulatory Implications,” West Palm Beach, FL, February 13, 1997.

Invited speaker, Chemical Producers and Distributors Association, Mid-Year Meeting, “Endocrine Disrupting Chemicals: Practical Concerns and Regulatory Implications,” Crystal City, Arlington, VA, February 2–4, 1997.

Invited speaker, International Society of Regulatory Toxicology and Pharmacology, Assessing the Risks of Adverse Endocrine-Mediated Effects, “Endocrine Risk Characterization,” Research Triangle Park, NC, January 13–14, 1997.

Invited speaker, The Chemical Producers and Distributors Association, Endocrine Disrupting Chemicals: Practical Concerns and Regulatory Implications, Arlington, Virginia, February 1997.

Workshop organizer and speaker, Society of Toxicology Annual Meeting, Risk Assessment and Risk Management of Exposures to Pesticides: The Next Generation, Anaheim, California, March 1996.

Invited speaker, Society of Toxicology Annual Meeting, The Misuse of Toxicology Evidence: Bendectin and Other Cases, Anaheim, California, March 1996.

Session organizer, Society for Risk Analysis Annual Meeting, Risk Assessment and Risk Management of Human Exposure to Pesticides: Regulatory Implications of Probability Modeling-Based Risk Assessments, Honolulu, Hawaii, December 4, 1995.

Invited speaker, “How to Determine Whether Chemicals Cause Adverse Effects on Human Reproductive Health” in Panel on “What is the Next Asbestos?”, 4th South Carolina Environmental Symposium, Kingston Plantation, South Carolina, October 11–13, 1995.

Invited speaker, American Industrial Hygiene Association Toxicology Symposium, Reproductive Protection Policies, Boston, MA, August 16, 1995.

Invited speaker, The PCB Regulations Conference, Health Effects of PCBs. Where There’s Smoke There’s Fire? Or Just Smoke? Washington, D.C., May 4–5, 1995.

Symposium organizer, Society of Toxicology, Coordination and Implementation of Biotechnology Product Safety Assessment by the Federal Government: Introduction, Baltimore, Maryland, March 6, 1995.

Invited speaker, American Association for the Advance of Science, Annual Meeting and Science Innovation Exposition, Risk Assessment of Chemicals That May Affect the Reproductive and Endocrine Systems, Atlanta, GA, February 18, 1995.

Invited speaker, American College of Toxicology, Review of the Association Between Endometriosis and Environmental Pollutants, Williamsburg, VA, October 24–26, 1994.

Invited speaker, Earth Talks Forum, Discussion of Chlorine and Related Compounds, Baton Rouge, LA, October 11, 1994.

Invited speaker, Dow Community Advisory Panel Meeting, Discussion of Chlorine and Related Compounds, Baton Rouge, LA, October 10, 1994.

Invited speaker, Society for the Advancement of Women's Health Research, Corporate Advisory Council Meeting, Estrogens in the Environment: Background and an Industry Perspective, September 27, 1994.

Invited speaker, American Chemical Society Meeting, Assessing Human Risk for Developmental Toxicity in the Workplace, Washington, D.C., August 23, 1994.

Speaker, Governor's Advisory Task Force on Environmental Quality, Reproductive and Developmental Toxicology of Chlorine-Containing Compounds, Baton Rouge, LA, July 21, 1994.

Panel member, Georgia Public Television Shows, Panel member in a one-hour special entitled "Sick Planet? Sick People?", June 26, 1994.

Invited speaker, South Carolina Wildlife Federation, Dialog: Chemicals and Fertility, Columbia, SC, June 9, 1994.

Symposium organizer and speaker, Society of Toxicology, Molecular Mechanisms in Hormonal Carcinogenesis: Update and Challenges for Future Research: Introduction, New Orleans, Louisiana, March 16, 1993.

Symposium organizer and speaker, Society of Toxicology, Gonadal Control, Growth Factors, and Tumorigenesis and Their Implications in Risk Assessment: Introduction, February, 1991.

Invited speaker, Workshop on Certification of Clinical Teratologists, Sponsored by The Teratology Society, Richmond, Virginia, June 7, 1989.

Invited speaker, Workshop on Carcinogenicity and Pesticides, Sponsored by the American Chemical Society, Los Angeles, California, September, 1988.

Invited speaker, Joint Government-Industry Workshop on Progress Towards Non-animal Alternatives to the Draize Test, Washington, D.C., September 14, 1988.

Invited participant, Workshop of the Effects of Pesticides on Human Health, Working Group on Developmental Toxicology, Sponsored by the Task Force on Environmental Cancer and Heart and Lung Disease, Keystone, Colorado, May 9–11, 1988.

Invited participant, Symposium on the Delaney Clause, Food and Drug Law Institute, National Academy of Sciences, Washington, D.C., March 26, 1988.

Invited speaker, Symposium on Clinical Issues in Reproductive Toxicology, “Regulating Drugs and Chemicals,” Georgetown University School of Medicine Reproductive Toxicology Center, Washington, D.C., March 23–25, 1988.

Poster session chair, Society of Toxicology, Reproductive and Developmental Toxicology, Dallas, Texas, February 17, 1988.

Invited speaker, “Regulation of Pesticides and Toxic Substances,” Food and Drug Law Institute, Washington, D.C., January 1988.

Member, U.S. delegation to the OECD meeting on Existing Chemicals, Ottawa, Canada, November, 1987.

Invited speaker on legal and scientific issues associated with pesticides in foods at the 31st Annual FDLI/FDA Educational Conference in Washington, D.C., December, 1987.

Member, organizing committee, and speaker at Food and Drug Law Institute program “Pesticides in Food—Dealing with the Problem,” Washington, D.C., September, 1987.

Panelist for glycol ether risk assessment at Workshop on Risk Assessment in Reproductive and Developmental Toxicology, Little Rock, Arkansas, September, 1987.

Also have briefed various media and state and federal government officials on scientific issues relating to reproductive and developmental toxicity of chlorine-containing chemicals in the past two years.

## **Prior Experience**

### **The Weinberg Group**

Executive Vice President, 2008

Senior Vice President, The Weinberg Group, 2003–2008

### **BBL Sciences, Blasland, Bouck & Lee**

Senior Vice President, 2000–2003

Vice President, 1999–2000

### **Jellinek, Schwartz & Connolly, Inc.**

Vice President, Scientific and Technical Services, 1993–1999

Vice President, Toxicology and Environmental Sciences, 1991–1993

Director, Toxicology and Environmental Sciences, 1988–1991

### **U.S. Environmental Protection Agency**

Special Assistant to the Assistant Administrator for Pesticides and Toxic Substances, 1985–1988

### **National Institute of Environmental Health Sciences, National Toxicology Program**

Biologist and Head, Fertility and Reproduction Group, 1980–1985

### **University of North Carolina, UNC School of Health**

Adjunct Associate Professor, Biohazard Program, Department of Parasitology and Laboratory Practice, 1985–1989  
National Institute of Environmental Health Sciences  
Senior Staff Fellow, National Toxicology Program, 1979–1980  
Developmental Pathologist, 1977–1979  
University of North Carolina  
Cancer Research Center, Research Associate, 1977–1979  
Department of Anatomy and Cancer Research Center, N.R.S.A. Postdoctoral Fellow, 1976–1977  
Department of Pathology, N.I.H. Pre-doctoral Trainee, 1973–1975  
Department of Chemistry, Teaching Assistant, 1972–1975  
Department of Pathology, Research Assistant, 1972–1973

### **Awards**

- Mid-Atlantic Society of Toxicology, Ambassador of Toxicology Award 2011

### **Editorial Boards**

- Environmental Health Perspectives  
– Editorial Board, 2008 – Present  
– Associate Editor, 2008-2010
- Pure and Applied Chemistry, Implications of Endocrine Active Substances for Humans and Wildlife – A Scope/IUPAC Project Vol 75 Nos. 11-12  
– Associate Editor, 2003
- Comprehensive Toxicology  
– Editorial Board, 2010  
–Volume 3 Editor, 2010

### **Professional Affiliations**

- Academy of Toxicological Sciences, Fellow, 2006–present  
– Board Member, 2009–2011  
– Vice President, 2011–2012
- American Bar Association, Vice Chair, Special Committee on Science & Technology, 1996
- American Board of Toxicology  
– President and Chairman of the Board, 1988–1989  
– Vice President, 1987–1988  
– Board Member, 1986–1990  
– Diplomate, 1981–present
- American Chemical Society
- American College of Toxicology
- Endocrine Society
- International Life Sciences Institute, HESI, Agricultural Chemical Safety Assessment Committee, Co-chair Life Stages Task Force, 2001–2006

- International Life Sciences Institute, HESI, Developmental and Reproductive Toxicology Task Group, Academic Advisor, 1996–present
- Johns Hopkins University School of Public Health and Hygiene, Risk Sciences and Public Policy Institute, Science Advisory Board and Adjunct Faculty, Member 1997–2001
- Society of Toxicology
  - Elected Member, Awards Committee, 2008–2010
  - Member, Congressional Task Force, 2009–present
  - Member, Professional Needs Assessment Task Force, 2008–2011
  - President of the Regulatory and Safety Evaluation Specialty Section, 2009–2010; Vice President, 2008–2009; VP–Elect, 2007–2008
  - Strategic Communication Committee, 2006–2007
  - Committee on Public Communications, Member, 1997–2001
  - Regulatory Affairs and Legislative Assistance Committee Member, 1992–1995; Chair, 1993–1995
  - Reproductive Toxicology Specialty Section Member, President, 1992–1993; Vice President, 1991–1992; Vice President Elect, 1990–1991; Awards Committee, 1985–1986; Nominations Committee, 1995
  - Risk Assessment Specialty Section Member
  - North Carolina Chapter Member, Newsletter Editor, 1982; Councilor, 1983–1985; Secretary/Treasurer, 1985–1987
  - Capital Area Chapter Member, 1986–present
  - Liaison to the American Board of Toxicology, 1988
- Toxicology Education Foundation
  - Trustee, 2002–2005
  - Secretary-Treasurer, 2003–2005
- OECD Committee on Validation of Test Methods, Observer, In Utero Testing Committee, 2003–2005
- National Academy of Sciences/ National Research Council
  - Committee on the Health Implications of Perchlorate Ingestion, National Academy of Sciences and National Research Council, Commission on Life Sciences, Board on Environmental Studies and Life Sciences, Member, 2003–2005
  - Committee on Hormone-Related Toxicants in the Environment, National Academy of Sciences and National Research Council, Commission on Life Sciences, Member 1995–1999
  - Committee on Risk Characterization, National Academy of Sciences and National Research Council, Commission on Behavioral Sciences and Education, Member, 1994–1996