CURRICULUM VITAE

Name: Linda S. Birnbaum

Citizenship: United States

Education:

June 1967	B.A. (Biology) University of Rochester, Rochester, NY
June 1969	M.S. (Microbiology) University of Illinois, Urbana, IL
February 1972	Ph.D. (Microbiology, Biochemistry minor) University of Illinois, Urbana, IL. (Thesis:
	Localization, Enrichment, and in vitro Transcription of Ribosomal RNA genes in
	Escherichia coli)
1982	Diplomate, American Board of Toxicology, recertified 1987, 1992, 1997, 2002

Brief Chronology of Employment

1972	Visiting Assistant Professor of Microbiology at University of Illinnois, Urbana, IL
1973 - 1974	Postdoctoral work at University of Massachusetts, Amherst, MA (Biochemistry)
1974 - 1975	Assistant Professor of Science at Kirkland (Hamilton) College, Clinton, NY
1975 - 1976	Research Associate, Masonic Medical Research Laboratory, Utica, NY
1976 - 1978	Research Fellow, Masonic Medical Research Laboratory, Utica, NY
1978 - 1979	Research Scientist, Masonic Medical Research Laboratory, Utica, NY
1979 - 1980	Senior Staff Fellow, National Toxicology Program, National Cancer Institute,
	Research Triangle Park, NC
1980 - 1987	Research Microbiologist, National Toxicology Program, NIEHS, Research Triangle
	Park, NC
1987 - 1989	Supervisory Research Microbiologist, National Toxicology Program, NIEHS,
	Research Triangle Park, NC
1989 - 1989	Head, Chemical Disposition Group, NIEHS, Research Triangle Park, NC
1989 - 1998	Director, Experimental Toxicology Division, National Health and Environmental
	Effects Research Laboratory, U.S. EPA, Research Triangle Park, NC
1998 - 1998	Acting Associate Director for Health, National Health and Environmental Effects
	Research Laboratory, U.S. EPA, Research Triangle Park, NC
1999 - 2008	Director, Experimental Toxicology Division, National Health and Environmental
1999 2000	Effects Research Laboratory, U.S. EPA, Research Triangle Park, NC
2001 - 2002	Acting Director, Human Studies Division, National Health and Environmental Effects
2001 2002	Research Laboratory, U.S. EPA, Chapel Hill, NC
2002 - Present	Director, Experimental Toxicology Division, National Health and Environmental
2002 - 1105011	Effects Research Laboratory, U.S. EPA, Research Triangle Park, NC
2006 Dragant	
2006- Present	Fellow, June 2006-June 2011, Board member, July 2007-June 2010, Academy of
2000 D (Toxicological Sciences
2008 - Present	Senior Toxicologist, National Center for Environmental Assessment, U.S. EPA,

Research Triangle Park, NC

Societies:

Society of Toxicology (President 2004-2005) American Society for Pharmacology and Experimental Therapeutics International Union of Pharmacology, Section on Toxicology North Carolina Chapter, Society of Toxicology American Aging Association Gerontological Society American Association for the Advancement of Science Phi Beta Kappa Phi Kappa Phi Sigma Xi Academy of Toxicological Sciences International Union of Toxicology (President 2010-2013) Society for Risk Analysis

Awards:

1967-1972 1971 1973-1974 1974-1975	NIH Predoctoral Traineeship Sigma Xi Award, University of Illinois Damon Runyon Foundation Postdoctoral Fellowship Mellon Foundation Research Grant
1976-1978	National Research Service Award
1978-1979	Career Employment and Training Award
1979	Young Investigator Grant - N.I.A.
1991	Scientific and Technological Achievement Award, Level III, U.S EPA
1992	Scientific and Technological Achievement Award, (2 awards) Level III, U.S. EPA
1993	Scientific and Technological Achievement Award, Level III, U.S. EPA
1994	Scientific and Technological Achievement Award, Level III, U.S. EPA (2 awards)
1996	National Wildlife Federation, Special Edition National Conservation Achievement Award
1996	First Ahlborg Memorial Award, Karolinska Institute, Sweden
1998	Scientific and Technological Achievement Award, Level III, U.S. EPA
1999	Best Risk Assessment Paper, SOT, New Orleans, LA
1999	Scientific and Technological Achievement Award, Level II, U.S. EPA
2000	Scientific and Technological Achievement Award, Honorable Mention
2000	Scientific and Technological Achievement Award, Honorable Mention
2001	Diversity Leadership Award, U.S. EPA
2002	Recognized as one of the top 100 cited authors in ISI Pharmacology
2002	U.S. EPA Gold Award for Scientific Achievement in the Health Sciences

2003	Society of Toxicology Risk Assessment Specialty Section (RASS) Blue Ribbon, best
2003	abstract Scientific and Technological Achievement Award, Level II, U.S. EPA
2003	U.S. EPA Bronze Medal (Region 5) to Emerging Pollutants Workshop Planning Group
2004	Society of Toxicology Risk Assessment Specialty Section (RASS) Blue Ribbon, best
	abstract
2004	Scientific and Technological Achievement Award, Level III, U.S. EPA
2005	Scientific and Technological Achievement Award, Level III, U.S. EPA
2006	Academy of Toxicological Sciences, Fellow
2006	Mid-Atlantic Chapter of the Society of Toxicology (MASOT) Ambassador Award
2006	Environmental Science & Technology Excellence in Review
2006	Society of Toxicology Public Communications Award
2007 - Date	Society of Toxicology Endowment Board
2007 - 2010	President-Elect/President for International Union of Toxicology (IUTOX)
2007 - Date	Official Advisor to the Endometriosis Association
2007 - Date	Editorial Board, Environmental Health Perspectives
2007	Scientific and Technological Achievement Award, Level I, U.S. EPA
2007	Scientific and Technological Achievement Award, Level III, U.S. EPA
2008	Society of Toxicology (SOT) 2008 Women in Toxicology (WIT) Elsevier Mentoring
	Award

Recent Assistance To Scientific Community

- 1. Chairs the Scientific Advisory Board of the University of Michigan Dioxin Study (UMDES) Present
- 2. External advisor to the University of Illinois, Chicago School of Public Health, grant proposal on the study of occupational exposure to Dioxins
- 3. Served as a member of the subcommittee for review of research at the Interfacultary Institute of Risk Assessment Sciences (IRAS), Utrecht University, the Netherlands (2005)
- 4. Official Advisor to the Endometriosis Association (2007)
- 5. Academy of Toxicological Sciences (ATS) Board of Directors

Other Activities:

1976 Adjunct Professor, Genetics, State University College of Technology, Utica, NY Chairperson, Guest Speaker Program at Masonic Medical Research Laboratory 1977 - 1979 Consultant, Syracuse Research Corporation (detection of carcinogens as mutagens) 1978 - 1979 1979 - 1983 Member, Executive Board, American Aging Association Vice President, American Aging Association 1980 - 1981 Adjunct Assistant Professor, Department of Environmental Science, School of Public 1980 - 1982 Health, University of North Carolina Adjunct Associate Professor, Department of Environmental Science, School of Public 1982-1988 Health, and Curriculum in Toxicology, University of North Carolina

1983 – Date	Curriculum in Toxicology, University of North Carolina
1985 – Date	Editorial Board, AGE
1988 – Date	Editorial Board, Environmental Health Perspectives
1988 – Date	Adjunct Professor, Department of Environmental Science, School of Public Health,
	and Curriculum in Toxicology, University of North Carolina
1989 – Date	Editorial Board, Toxicology and Applied Pharmacology
1989 – Date	Executive Committee, Curriculum in Toxicology, University of North Carolina
1992 – Date	Member of the Chemical Manufacturers Association Butadiene Panel
1993 – 1998	Editorial Board, Environmental Health Perspectives
1993 – Date	Committee for NIEHS Planning Grant for an EHS Center
1993 – Date	Editorial Board, Human and Experimental Toxicology
1994 - 1997	Elected to serve a three year term on the Executive Committee of the Division of
	Toxicology, ASPET
1994 – Date	Reviewer for Medical Research Council of Canada Grants
1995 – Date	CIIT Scientific Advisory Panel
1995 – Date	Adjunct Faculty Member of Toxicology, Integrated Toxicology Program, Duke
	University
1999 – 2000	Chair, DOT, ASPET
1999 – Date	Editorial Board, Chemosphere
2000 – Date	Executive Committee, Research Triangle Park Drug Metabolism Discussion Group
2000 – Date	U.S. Delegate to AMAP/Health Effects Group
2002	Reviewer for Environmental Science & Technology
2002 - 2006	On Board of Directors of SOT as Vice President Elect, Vice President, President, and
	Past President

Invited Speaker:

Duke University (1982); University of Buffalo (1983); Rutgers University (1984); EPA (Washington, DC, 1985); University of Arizona (1985); Duke VA (1986); University of Nebraska (1986); CIIT (1987). Texas A&M University (1987); St. Johns University (1987); Veterans Administration Medical Center, St. Louis (1987); NTP Executive Committee (1988); Senate Committee on Environment and Public Works (Staffers) (1989); Health Effects Research Laboratory (Research Triangle Park, NC, 1989); USEPA (Washington, 1989); NIEHS Research Day (1989); Duke University (1990); University of North Carolina (1990); Virginia Polytechnic Institute and State University (1990); EOHSI; Panelist at the GLO 9 Graduation Program, Rutgers University (1991); Cornell University (1991); Colorado State University (1991); Health Effects Institute (1991); Toxicology Forum (1991); Harvard School of Public Health (1991); Symposium on the Health Effects of Gasoline (1991); The Toxicology Forum (1992); University of Connecticut (1992); World Wildlife Fund (1992); Genetic Toxicology Association Spring Meeting (1992); North Carolina's Environmental Management Commission (EMC) Water Quality Committee 1992); SEGH International Conference on Lead and Other Trace Substances (1992); Harvard School of Public Health (1992); University of Kansas Medical Center (1992); Association for Governmental Toxicologist, Society for Environmental Geochemistry and Health (1992); University of Texas (1992); American Association for the Advancement of Science (1993)

Society of Toxicology (1993); Air and Waste Management Association (1993); NIEHS (1993); International Congress on Health Effects of Hazardous Waste (1993); National Conference on Dioxin (1993); Committee to Coordinate Environmental Health and Related Programs (1993); Duke University School for the Environment (1993); NIEHS (1993); Great Lakes Water Quality Board Meeting (1993); NC State University Graduate Student Professional Development Workshop (1993); Environmental Defense Fund (1993); American College of Toxicology (1993); Health Protection Branch, Health and Welfare Canada (1993); Illinois Environmental Health Association (1993); University of Illinois (1993); Environmental Health Protectorate, Canada (1994); University of Pittsburgh (1994); Chlorine Chemistry Council (1994); NIEHS Second Annual Environmental Careers Symposium (1994); Dioxin Reassessment Press Conference - Washington, DC (1994); Dioxin Reassessment Press Conference - Chicago, IL (1994); EPA Region 5 Dioxin Reassessment Press Conference; (1994); University of California, Davis (1994); Durham-Chapel Dietetic Association (1994); NCSU Workshop (1994); Duke University Occupational Medicine Seminar Series (1994); University of Kentucky, Graduate Center for Toxicology & Sigma Xi (1994); NCSOT (1994); National Academy of Sciences (1994); Southern Illinois University (1994); Air & Waste Management Association (1994); North Carolina Bar Association (1995); Cornell University (1995); North American Commission for Environmental Cooperation (1995); Tribal Council - St. Reigs Mohawk Tribe Environment Division (1996); National Wildlife Conservation (1996); American Chemical Soceity (1996); West Virginia University, Department of Pharmacology & Toxicology (1996); University of Illinois (1996); Cincinnati Medical Center - Institute of Environmental Health (1996); Internatinal Symposium Dioxins and Furans -

Heidelberg, Germany (1996); University of Michigan - Consultant Program (1997); NC State University - SCI-LINK Teachers Day (1997); Washington, DC - Dosimetry for Persistent Chemicals (1997): University of Buffalo - Buffalo environmental health Sciences Conference (1997): Montreal. Canada - Health Conference '97 (1997); Indianapolis, IN - Dioxin '97 Symposium on Chlorinated Dioxins and Related Compunds (1997): Southern Illinois University - Betram W. Carnow Memorial Symposia (1997); Seoul, Korea - 50th Anniversary of the Korean Society of Pharmacology; Dioxin conference; Pohang University (1997); Lineberger Cancer Center, University of NC at Chapel Hill (1998); Endocrine Disruptor Workshop, Raleigh, NC (1998); Chemical Mixtures Colloquium, Washington, DC (1998); University of NC Research Integrity Conference (1998); Butadiene Annual Research Review Meeting, Houston, TX (1998); Cell Signaling Workshop, Research Triangle Park, NC (1998); Workshop on Ah Receptor-Controlled Responses in Tumor Promotion, Germany; University of Maine, Orono, ME (1998); Risk Characterization of Dioxin, EPA, Research Triangle Park, NC (1998); NIEHS/NTA Science Fair (1998); AMSA National Convention, Chicago, IL (1999); Graduate Student Convocation, ASPET Meeting, Washington, DC (1999); Washington State University, Pullman, WA (1999); Environmental Mutagen Society (2000) Bowman Gray School of Medicine (2000); Endometroisis 2000, London (2000); University of Wisconsin, Madison (2000); Physicians for Social Responsibility, Washington, DC (2000); Ecology and Health Conference, Raleigh, NC (2000); Dioxin 2000 (Monterey and Berkley, California); American Public Health Association Annual Meeting (2000); University of New Mexico Toxicology Program (2000); Cornell University (2001); University of Zurich (2001); Karolinska Institute (2001); LocalMotion, Detroit, MI (2001); Michigan Department of Environmental Quality (2002); University of Illinois, Chicago (2002); North Carolina State University (2003); Loma Linda University, CA (2003); Boston City Council, Boston, MA (2003); Boston City Council on Dioxin, Boston, MA (2003); Research Triangle

Park Career Evaluation, Research Triangle Park, NC (2003); University of California at Los Angeles. (2004); Harvard Seminar, Boston, MA (2004); EMS Panel Debate, Washington, DC (2004); Duke University Integrated Toxicology Program, Durham, NC (2004): Lone Tree Council, Saginaw Bay Watershed, Saginaw, MI (2005); Porter School of Environmental Studies and Haifa University, Israel (2005); Michigan Department of Environmental Quality, Midland, Michigan (2005); University of Southern Maine, Portland, Maine (2005); North Carolina State University, Department of Environmental and Molecular Toxicology 2006 Seminar, Raleigh, NC (2006); Southwestern Medical University, Dallas, TX (2006); University of Wisconsin, Madison, WI (2006): DECA, Washington, DC (2006), University of Michigan, Ann Arbor, Michigan (2006); Brominated Flame Retardants (BFR), Washington, DC (2006); Environmental Partnership Summit, Research Triangle Park, NC (2006); 232nd American Chemical Society Meeting & Exposition, San Francisco, CA (2006); Wevbridge + 10 Workshop, Helsinki, Finland (2006); International Conference on Food Contaminants and Neurodevelopmental Disorders, Valencia, Spain (2006); PALs Meeting, Crystal City, Arlington, VA (2006), East Carolina University (2007); U.S. EPA Region 8, Denver, CO (2007); NIEHS Meeting, Research Triangle Park, NC (2007); P.O.P. Culture, Santa Monica, CA (2007); Evaluation of the human relevance of modes of action in animals, University of North Carolina, Chapel Hill, NC (2008); Evaluating the human relevance of modes of action in animals workshop, ILSI Research Foundation University of North Carolina, Chapel Hill, NC (2008); Duke ITP, Duke University, Durham, NC (2008); Indiana University, Bloomington, IN (2008).

Invited Symposium/Workshop Speaker:

Liver and Aging, II (Japan, 1982); SOT (Atlanta, 1984); Organizer, Annual symposium, American Aging Association (1984); Butadiene ISSRP workshop (1985); Toxicity and Aging Workshop (EPA/NIA, 1985); Gerontology Society (New Orleans, 1985); Strain Selection for Carcinogenesis (NIEHS, 1985); Gerontology Society (Chicago, 1986). Dioxin '87 (Las Vegas, 1987); Pharmacokinetics Modeling and Risk Assessment (Asheville, NC, 1988); ASPET (Montreal, 1988); WHO Workshop on Chemical Toxicity and Aging (Leningrad, 1988); SOT Atlanta, 1988); FASEB (New Orleans, 1989); North Carolina Academy of Sciences (Raleigh, 1989); Human Health Effects of Pollution in the Great Lakes (Ontario, 1989); NCASI Dioxin Research Needs Expert Panel (Rockville, MD, 1989); 15th Symposium Environmental Pollutants and Toxicology (Japan, 1989); PCB Workshop, Health Protection Branch, Health and Welfare, Ottawa, Canada (June, 1990); International Cancer Congress (Hamburg, West Germany, 1990); TEFs for PCBs (Washington, DC, 1990); Women Administrators in North Carolina Higher Education Spring Forum meeting on "Women in Science" (Durham, NC, 1992); State of North Carolina, Department of Environment, Health and Natural Resources, Division of Environmental Management Commission's Water Quality Committee (Raleigh, NC, 1992); SEGH International Conference on Lead and Other Trace Substances (1992); Rifkin and Associates "Mechanisms of Dioxin Toxicity: Implications for Risk Assessment (Washington, D.C. 1993); California Department of Health Services, Hazardous Materials Laboratory (Berkeley, CA 1993); Gordon Research Conference, "Dioxin Toxicity and Risk Assessment" (Meriden, NH, 1993); American College of Toxicology (1993); Health Protection Branch, Health and Welfare, Canada (1993); Butadiene Peer Review Panel (1993); HERL First Annual Symposium (1993); Waste Technologies Incorporated Peer Review Workshop (1993): North Carolina State Graduate Student

Professional Development Workshop (1993); HERL Symposium (1993); NIEHS Sponsored Estrogens in the Environment III: Global Health Implications (1994); National Symposium on Health Research and Needs to Ensure Environmental Justice (1994); AEERL/ASME Seminar on PIC Formation and Control (1994); Children's Environmental Health Network (1994); EPA Colloquium on Environmental Hormones (1994); NIEHS Second Annual Environmental Careers Symposium (1994); Chemical Manufacturers Association, Chlorine Chemistry Council (1994); University of Pittsburgh (1994); Regional Risk Assessment Meeting (1994); Great Lakes Human Health Effects Research Symposium (1994); European Environmental Research Organization (1994); Pennsylvania State 13th Summer Symposium in Molecular Biology (1994); Rifkin & Associates (1994); 6th North American ISSX Meeting (1994); HERL Second Annual Symposium (1994): American Zoological Society (1995); Mechanistic Studies - National Toxicology Program (1995); Chlorination and Drinking Water; Dioxin Roundtable - SOT (1995); International Joint Commission - Great Lake's Science Advisory Board (1995); WHO (1995); Freie University of Berlin (1995); International Institute of Synthetic Rubber Producers, Inc. (1995); International Congress of Toxicology (1995); Working Group on the Assessment of Health Risk for Infants from Exposure to PCDDs, PCDFs, and PCBs (1995); International Neurotoxicology Conference (1995); Endometriosis Association (1995); PCB Assessment Panel (1996), Dioxin Risk Characterization Working Team (1996); International Symposium of the Society of Toxicologic Pathologists (1996); Ulf G. Ahlborg Memorial Lecture at Karolinska Institute=s Nobel Forum (1996). Russian-American Project with scientists, policy-makers and citizen Stakeholder AUniting to Reduce dioxin levels in the Environment and Human Beings, Russia (1996); Dioxins in the Middle East Workshop, Israel (1996); 69th Meeting of the IARC Monographs Programme on the Evaluation of Carcinogenic Risks to Humans, France (1997); WHO Workshop on Revision of I-TEFs, Sweden (1997); Pellston/SETAC Workshop on Chemical Effects on Reproduction, Montana (1997); ISSX Meeting, SC (1997); WHO Workshop on TDI for Dioxins (1998); CIIT Workshop on PBPK Modeling of 1,3-Butadiene (1998); Dioxin '98, Sweden (1998); Autoimmune Disease Workshop (1998); FQPA Meeting (1999), Workshop on Steriod Hormones & Brain Function, Breckenridge, CO (1999); Drinking Water Research Needs Expert Workshop, Leesburgh, VA (1999); Human Exposure Assessment Workshop, Rockville, MD (1999), College of Pharmacy, Washington State University, Pullman, WA (1999), Symposium on Man-Made Chemicals/Hormones in the Environmental on Human Health, Mt. Holyoke College, South Hadley, MA (1999); IPCS Planning Group Meeting on Integrated Risk Assessment, Philadelphia, PA (1999); 13th Working Group Meeting of the Arctic Monitoring and Assessment Program, Toronto, Canada (1999); Workshop on Criteria for Phasing Out Persistent and Bioaccumulating Organic Chemicals, Stockholm, Sweden (1999); Workshop on Diversity 2000: Managing the Third Wave (1999); Endocrine Disruptors and Children's Health, MT. Sinai School of Medicine, New York (2000); Living Safely with Chemicals in the New Millennium (2000); AMAP Workshop, Rovaniemi, Finland (2000); PAS Proteins/ASPET, Boston, MA (2000); CMA Workshop Biomarkers, RTP, NC (2000); ASPET Program Committee (2000); WHO Integrated Risk Assessment Workshop, Ispra, Italy (2001);Brominated Flame Retardants (BFR) 2001, Stockholm, Sweden; WHO Expert Meeting on Rapid Assays, Brussels, Belgium (2001); Conference on Endocrine Disrupters and Human Health. Universidade Independente, Lisbon, Portugal (2001); Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxin, Hanoi, Vietnam (2002); Federal-State Toxicology and Risk Analysis Committee, Washington, DC (2002); European Commission Nondioxin-like PCBs Workshop, Brussels, Belgium (2002); Brominated Flame Retardants Roundtables,

San Francisco, CA (2002); Federal Women's Program, Women's History Month Event, Research Triangle Park, NC (2003); Society of Toxicology Annual Meeting, Salt Lake City, Utah (2003); Federal Women's Program, Women's History Month Event, Research Triangle Park, NC (2003); Brominated Flame Retardants, Conference & Workshop, San Francisco, CA (2003); SAIC Conference on Dioxin Threat Assessment, McLean, VA (2003); Star Progress Review Workshop, Washington, DC, (2003); Senior Executive Service Meeting, Washington, DC, (2003); Emerging Pollutants Workshop, Boston, MA (2003); Dioxin Workshop, Boston, MA (2003); Dioxin Workshop, Boston, MA (2003); Cocktail Effect in Risk Assessment (CeiRA), Stresa, Italy (2003); PBDE Workgroup, Washington, DC (2004); 19th Annual Regional Risk Assessors Meeting, Boston, MA (2004); U.S. EPA Region I Risk Assessors, Boston, MA (2004); PCB Workshop, University of Illinois, Urbana-Champaign, IL (2004); EPSA Science Colloquium, Brussels, Belgium (2004); ICTX Satellite & ICTX Meeting, Porvoo, Finland (2004); Dioxin 2004, Berlin, Germany (2004); HEI Biomonitoring, Research Triangle Park, NC (2004); Bear Mountain Superfund, Bear Mountain, NY (2004); Region IV ERS, Atlanta, GA (2004); NRP 50 Bern, Switzerland (2004); Environmental Influences on the Induction and Incidence of Asthma, Research Triangle Park, NC (2004); CHPAC Washington, DC (2004); APHA, Washington, DC (2004); University of Michigan Dioxin Exposure Study (UMDES) SAB, Ann Arbor, MI (2004); CASCADE, Orvieto, Italy (2005); Society of Toxicology Annual Meeting, New Orleans, Louisiana (2005); Credo Workshop on Endocrine Disrupters, Prague, Czech Republic (2005); TEFs Re-Evaluation, World Health Organization, Geneva, Switzerland, (2005): 1st International Workshop on Modifiers of Chemical Toxicity, Poros/Athens, Greece (2005); Children's Environmental Health Research, Research Triangle Park, NC (2005); Dioxin 2005, Toronto, Canada, (2005); 42nd Congress of the Federation of European Toxicologists & European Societies of Toxicologists (Eurotox 05), Krakow, Poland (2005); National Forum on Contaminants in Fish, Baltimore, MD (2005); Nicholas Institute for Environmental Policy Solutions, Inaugural, Duke University, Durham, NC (2005); U.S. EPA Region II Science Day, New York, NY (2005); 40th Annual Meeting, American Academy of Environmental Medicine, Tucson, AZ (2005); North Carolina Society of Toxicology Spring Meeting, 25th Anniversary Celebration, Research Triangle Park, NC (2006); Cascade 2nd Annual Meeting, St. Malo, France (2006); Mid-Atlantic Society of Toxicology (MASOT) Meeting, Scotch Plains, New Jersey (2006); Gordon Research Conferences, Environmental Endocrine Disruptors, Il Ciocco Barga, Italy (2006); 28th International Congress on Occupational Health, Milan, Italy (2006); International Brominated Flame Retardants (BFR) Meeting, Toronto, Canada (2006); Bisphenol A: An Examination of the Relevance of Ecological, In Vitro and Laboratory Animal Studies for Assessing Risks to Human Health - An Expert Panel, Chapel Hill, NC, (2006); Environmental Challenges Meeting, San Francisco, CA (2007); UCSF-CHE Summit on Environmental Challenges to Reproductive Health and Fertility, San Francisco, CA (2007); .State-of-the-Science Workshop: Issues and Approaches in Low Dose-Response Extrapolation for Environmental Health Risk Assessment, Baltimore, MD (2007); NERC Knowledge Transfer Network, 2nd Conference on Persistent Organic Pollutants:Legacy and Current-Use Pops, The University of Birmingham, Birmingham, UK (2007), LTIG Meeting, Chicago, IL (2007); Moving Upstream Workshop, Berkeley, CA (2007); International Congress of Toxicology, Montreal, Quebec, Canada (2007); Dioxin 2007 Satellite Symposium, Shibuya-ku, Tokyo, Japan (2007); Dioxin 2007 International Symposium, Tokyo, Japan (2007), International Congress of Toxicology XI, Montreal, Ontario, Canada (2007); Future Research on Endocrine Disruption, Durham, NC (2007); NHEERL/OSWER Libby Action Plan Toxicology Studies, OU4 Technical Subgroup Meeting, Libby,

MT (2007); SETAC North America 28th Annual Meeting, Milwaukee, WI (2007); Society of Risk Analysis 2007 Annual Meeting, San Antonio, TX (2007); Meeting of the HESI Subcommittee on Risk Assessment for Sensitive Populations, Washington, DC (2007); 47th Annual Society Of Toxicology & ToxExpo, Seattle, Washington (2008); 6th Expert Consultation Panel Meeting for Provisional Advisory Levels, Research Triangle Park, NC (2008); 5th PCB Workshop, Iowa City, IA (2008); 10th GRC on EED, PFAA Days, Research Triangle Park, NC (2008).

Major Committee Responsibilities:

TRTP Promotion Committee (1984-present), Chairman (1987-1989) NIEHS Radiation Safety Committee (1985-present) Mouse Strains for Carcinogenesis Studies (1985) NIEHS Research Support Subcommittee (1986) NIEHS Laboratory Casework Committee (1986-present) Judge, SOT Mechanism Section Graduate Student Awards (1985, 1986) Treasurer, NC SOT (1986-1988); Vice President, NC SOT (1988-present) NAS Committee on Chemical Toxicity and Aging (1986-1988) U.S. EPA Science Advisory Board - Halogenated Solvents Subcommittee (1987-1989) N.J. EPA Science Advisory Board (1987-present) SOT Mechanism Section, Nominations Committee (1987-present) WHO, IPCS, Cochair - Aging and Toxicity (1988-1993) US EPA, Science Advisory Board - Dioxin Review (1988-1989) DTRT. AdHoc Group on Future Research Priorities. Facilitator (1988-1989) Education Committee, SOT (1989-1992) NIOSH Peer Review Board on Dioxin Studies (1989-present) CIIT, Dioxin Review Panel (1990-present); Scientific Advisory Panel (1990) USEPA/ORD - Committee on Scientific Ethics ILSI Committee on Pharmacokinetics (1992-present) SOT, Nominating Committee (1993-1994) SOT, Mechanisms Section (V.P. 1992-1993; Pres. 1993-1994) HERL Symposium Committee (1992-present) U.S. EPA Laboratory Implementation Committee, Science and Scientific Subcommittee, Co-Chair of the Scientific and Scientific Career Subcommittee - Fellowship Committee Chair Fellowship Committee (1994-present) Member - ORD Human Resources Committee Member of the Chemical Manufacturers Association Butadiene Panel (1992-present) External Advisory Committee for the NIEHS Planning Grant for an EHS Center (1993-present) Executive Committee of the Division of Toxicology, ASPET (1994-1997) SOT Council (1996-1999) ORD/OW Arsenic External RFA Committee Executive Committee, International Society for the Study of Xenobiotics (Jan 1996 - Dec 1999) International Organizing Committee, Dioxin 1992-present Awards Committee, SOT (1998-2000)

Liaison - NERL/NHEERL Interaction Workgroup (1998-present) Chair, Division of Toxicology, ASPET (1998-2000) Executive Committee of the RTP Drug Metabolism Discussion Group (2003) Agency Wide PBT Initiative Society of Toxicology – Presedential Chain (2002-2006) HESI Biomonitoring Technical Committee (2006)

Reviewer:

Advances in Neonatal Care, American Chemical Society, American Journal of Industrial Medicine, AWWARF Reviewer for Medical Research Council of Canada Grants, Biology of Reproduction, Carcenogenesis, Center for Health Effects of Environmental Contamination Seed Grant Program, Chemical Research In Toxicology, Chemical Research In Toxicology, Chemosphere, Chemosphere, Drug Metabolism & Disposition, Environment, Environmental & Molecular Mutagenesis, Environmental Health, Environmental Health Perspectives, Environmental Protection Agency, Environmental Research, Environmental Science & Technology, Environmental Science & Technology, Environmental Sciences, European Commission 6th Framework Programme, Federal Drug Administration (Grant proposals and health criteria documents), Food & Chemical Toxicology, Human & Experimental Toxicology, Human and Experimental Toxicology, Inalation Toxicology, Institute of Medicine, Integrated Risk Information Systems, John Wiley & Sons, Journal of Agriculture & Food Chemistry, Journal of Agriculture and Food Chemistry, Journal of Applied Toxicology, Journal of Biochemical & Molecular Toxicology, Journal of Biochemical & Molecular Toxicology, Journal of Exposure Analysis and Environmental Epidemiology, Journal of Hazardous Materials, Journal of Immunotoxicology, Journal of Occupational & Environmental Medicine, Journal of the American Medical Association, Life Sciences, March of Dimes, Mechanics of Aging & Development, Molecular Pharmacology, Molecular Pharmacology, Multi-National Forces, National Academy of Sciences (health criteria documents), National Center for Toxicological Research, National Institute for Environmental Health Sciences National Science Foundation, New York State (health criteria documents), North Atlantic Treaty Organization, Committee on Challenges of Modern Society, Northern Contaminants Program, Nuclear Regulatory Commission (Committee), Nutrition Research, Pharmacological Research, Pharmacological Research, Regulatory Toxicology & Pharmacology, Regulatory Toxicology & Pharmacology, Reproductive Toxicology, Research and Toxicology Letters, Reviews in Mutation, Reviews in Mutation Research, Swedish Research Counsel, Swiss National Science Foundation, Toxicological Sciences, Toxicological Sciences, Toxicology, Toxicology & Applied Pharmacology, Toxicology In Vitro, Veteran's Administration

Referee for:

Toxicology and Applied Pharmacology, Biochemical Pharmacology, Life Sciences, AGE, Science,

Proc. Soc. Exp. Biol. Med., J. Physiol., Exp. Gerontol., Environmental Health Perspectives, Environmental Toxicology and Chemistry, Cancer Research, Drug Metabolism and Disposition, Biochemica Biophysica Acta, Laboratory Animal Science, Molecular Pharmacology, Journal of Toxicology and Environmental Health, Cancer Research, Reproductive Toxicology, Human and Experimental Toxicology, Journal of Pharmacology and Experimental Therapeutics, Proc. National Academy of Science; Carcinogenesis; Comparative Biochemistry and Physiology; Journal of Exposure Analysis and Environmental Epidemiology, Environmental Science & Technology, Americas, Toxicology.

Research Advisor for:

- Dennis Darcey, MS, University of North Carolina, Department of Environmental Sciences and Engineering, 1982
 Susan Borghoff, MS, Ph.D., University of North Carolina, Department of Environmental Science
- Susan Borghoff, MS, Ph.D., University of North Carolina, Department of Environmental Sciences and Engineering, 1987
- Chris Miller, MS, University of North Carolina, Department of Environmental Sciences and Engineering, 1985
- Charles Hebert, Ph.D., University of North Carolina, Toxicology Curriculum, 1990

Laurie Couture-Haws, MS, Ph.D., University of North Carolina, Department of Environmental Sciences and Engineering and Toxicology Curriculum (MS 1987; Ph.D. 1991)

Yolanda Banks Anderson, Ph.D., University of North Carolina, Department of Environmental Sciences and Engineering, 1990

Lorrene Kedderis, Ph.D., University of North Carolina, Toxicology Curriculum, 1992 Mary K. McKinley, MS, Duke University, School of the Environment, 1992

- Renu Batra, Ph.D., University of North Carolina, Department of Environmental Sciences and Engineering (deceased)
- Krista Little Johnson, MS, University of North Carolina, Department of Environmental Sciences and Engineering, 1996

Christopher Hurst, Ph.D., University of North Carolina, Curriculum in Toxicology, 1999. Deborah Burgin, Ph.D., University of North Carolina, Curriculum in Toxicology, 2005 Daniele Staskal, Ph.D., University of North Carolina, Curriculum in Toxicology, 2005 Daniel Bauer, Ph.D., University of North Carolina, Curriculum in Toxicology, withdrew David Szabo, Ph.D., University of North Carolina, Curriculum in Toxicology, in progress Vicki Richardson, University of North Carolina, Curriculum in Toxicology, in progress Michele La Merrill, University of North Carolina, Curriculum in Toxicology, in progress Olivier Humblet, Harvard University, Curriculum in Toxicology, in progress

Thesis Committee (Ph.D. Students)

Alan Jo Cato, University of North Carolina, School of Pharmacy

Charlie Sewall, University of North Carolina, Toxicology Curriculum Joost DeJongh, University of Utrecht, The Netherlands Angelique Van Birgelen, University of Utrecht, The Netherlands George Monteverdi, Duke University, School of the Environment Chia-Yang Chen, University of North Carolina, School of Public Health Coralie Groenveld, Agricultural University of Wagingen, Wagingen, The Netherlands Irene Kampen, Agricultural University of Wagingen, Wagingen, The Netherlands Michael Wyde, UNC, Curriculum in Toxicology Jie (Jane) Dong, Duke University, School of the Environment Yo Chan Jeong, University of North Carolina, School of Public Health Michele La Merrill, UNC, Curriculum in Toxicology Lieke Peters, University of Etricht, The Netherlands Oliver Hamblett, Harvard School of Public Health

Postdoc Advisor:

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