

## CURRICULUM VITAE

Name: Linda S. Birnbaum

Date and Place of Birth: December 21, 1946; Passaic, New Jersey

Citizenship: United States

Marital Status: Married 1967, three children

### 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, 2007

### Brief Chronology of Employment

1972 Visiting Assistant Professor of Microbiology at University of Illinois, 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 Effects Research Laboratory, U.S. EPA, Research Triangle Park, NC  
2001 - 2002 Acting Director, Human Studies Division, National Health and Environmental Effects Research Laboratory, U.S. EPA, Chapel Hill, NC  
2002 - 2009 Director, Experimental Toxicology Division, National Health and Environmental Effects Research Laboratory, U.S. EPA, Research Triangle Park, NC  
2006- Present Fellow, June 2006-June 2011; Board member, July 2007-June 2010, Academy of

2008 - 2009	Toxicological Sciences Senior Toxicologist, National Center for Environmental Assessment, U.S. EPA, Research Triangle Park, NC
2009 –Present	Director, National Institute of Environmental Health Sciences and National Toxicology Program, Research Triangle Park, NC
2009 - Present	Senior Investigator, National Cancer Institute

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  
 Member, Institute of Medicine

Awards:

1967-1972	NIH Predoctoral Traineeship
1971	Sigma Xi Award, University of Illinois
1973-1974	Damon Runyon Foundation Postdoctoral Fellowship
1974-1975	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 Ahlberg 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 abstract  
2003 Scientific and Technological Achievement Award, Level II, U.S. EPA  
2004 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  
2010 Honorary Degree Recipient from the University of Rochester  
2010 College of Liberal Arts & Science Alumni Achievement Award, University of Illinois  
2011 National Institutes of Health Director's Award  
2011 Scientific and Technological Achievement Award, Level III, U.S. EPA  
2012 Breast Cancer Fund Heroes Award  
2012 National Research Center for Women's 2012 Health Policy Hero 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 Interfaculty 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  
1977 - 1979 Chairperson, Guest Speaker Program at Masonic Medical Research Laboratory  
1978 - 1979 Consultant, Syracuse Research Corporation (detection of carcinogens as mutagens)  
1979 - 1983 Member, Executive Board, American Aging Association  
1980 - 1981 Vice President, American Aging Association  
1980 - 1982 Adjunct Assistant Professor, Department of Environmental Science, School of Public Health, University of North Carolina  
1982-1988 Adjunct Associate Professor, Department of Environmental Science, School of Public 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 - 1996 Member of the Chemical Manufacturers Association Butadiene Panel  
1993 - 1998 Editorial Board, *Environmental Health Perspectives*  
1993 - 1995 ) Committee for NIEHS Planning Grant for an EHS Center  
1993 - 2009 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 - 1998 CIIT Scientific Advisory Panel  
1995 - Date Adjunct Faculty Member of Toxicology, Integrated Toxicology Program, Duke University  
1999 - 2000 Chair, DOT, ASPET  
1999 - 2009 Editorial Board, *Chemosphere*  
2000 - 2007 Executive Committee, Research Triangle Park Drug Metabolism Discussion Group  
2000 - 2004 U.S. Delegate to AMAP/Health Effects Group  
2002 Reviewer for *Environmental Science & Technology*  
2002 - 2006 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, D.C. (1994); Dioxin Reassessment Press Conference - Chicago, Illinois (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 Society (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; The 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, RTP, NC (1998); Workshop on Ah Receptor-Controlled Responses in Tumor Promotion, Germany; University of Maine, Orono, ME (1998); Risk Characterization of Dioxin, EPA, RTP, 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); Endometrosis 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, Dept. 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); 232<sup>nd</sup> American Chemical Society Meeting & Exposition, San Francisco, CA (2006); Weybridge + 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, North Carolina (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, North Carolina (2008); Indiana University, Bloomington, Indiana (2008); Women Taking the Lead to Save Our Planet, Washington, DC (2009); National Public Radio (2009); Frontline (2009); CNN (2009); NIEHS Earthday, RTP, NC (2009); Summers of Discovery Seminar Series, RTP, NC (2009); Computational Toxicology Webinar Series, RTP, NC (2009); NIEHS Town Hall Meeting, RTP, NC (2009); NIEHS Friends & Family Day, RTP, NC (2009); National Conversation on Chemical Exposures, Washington, DC (2009); NIEHS Distinguished Lecture Series, RTP, NC (2009); Research Triangle Institute, RTP, NC (2010); James L. Whittenburg Lecture, Boston, MA (2010); Great Lakes Green Chemistry Seminar, RTP, NC (2010); UNC Institute of the Environment, Chapel Hill, NC (2010); NIEHS Spirit Lecture, RTP, NC (2010); University of Virginia Plastic Project, Charlottesville, VA (2010); Congressman Price Science Panel, RTP, NC (2011); Los Angeles Community Forum, CA (2011); Parkinson's Action Network Panel, Washington, DC (2012); Texas Women's University Annual Celebration of Science, Denton, TX (2012); Medical University of South Carolina, Charleston, SC (2012); UNC Women in Science Series, Chapel Hill, NC (2012); Environmental Health Sciences Seminar, UC-Davis, CA (2012); University of Rochester, Rochester, NY (2012).

#### 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 Canada, Ottawa (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,

California 1993); Gordon Research Conference, "Dioxin toxicity and Risk Assessment" (Meriden, New Hampshire, 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 Disruptors 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 Non-dioxin-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, D.C., (2003); Senior Executive Service Meeting, Washington, D.C., (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, Illinois (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, New York (2005); 40<sup>th</sup> Annual Meeting, American Academy of Environmental Medicine, Tucson, AZ (2005); North Carolina Society of Toxicology Spring Meeting, 25<sup>th</sup> Anniversary Celebration, Research Triangle Park, NC (2006); Cascade 2<sup>nd</sup> 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); 28<sup>th</sup> 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, 2<sup>nd</sup> 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 28<sup>th</sup> 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); 47<sup>th</sup> Annual Society Of Toxicology & ToxExpo, Seattle, Washington (2008); 6<sup>th</sup> Expert Consultation Panel Meeting for Provisional Advisory Levels, Research Triangle Park, NC (2008); 5<sup>th</sup> PCB Workshop, Iowa City, IA (2008); 10<sup>th</sup> GRC on EED, PFAA Days, Research Triangle Park, NC (2008); Woman Taking the Lead to Save our Planet, NIH, Washington, D.C. (2009); Annual Society Of Toxicology Conference, Baltimore, MD (2009); Columbia Center for Children's Environmental Health Conference, New York, NY (2009); Brominated Flame Retardants (BFR), Annual Meeting, Ottawa, Canada (2009); Institute of Medicine Environmental Roundtable Meeting (2009); Green Chemistry Conference (2009); National Conversation on Public Health and Chemical Exposures Kick-Off Meeting (2009); Toxicology Forum (2009); Developmental Basis for Disease Workshop (2009); 29th International Symposium on Halogenated Persistent Organic Pollutants (Dioxin 2009); Keynote at the 2009 Rachel Carson Legacy Conference, Pittsburgh, PA (2009); Plenary at 2009 ISES Conference, Minneapolis, MN (2009); Annual NIEHS-NCI BCERC Conference, Oakland, CA (2009); Thyroid Biomarkers Workshop, San Francisco, CA (2009); Joint Workshop on Environmental Pollution and Cancer in China and the U.S., Guangzhou, China (2010); University Research Corridor Conference (2010); Annual Society Of Toxicology Conference, Salt Lake City, UT (2010); UVA Plastic Project Workshop (2010); Children's Environmental Health Task Force Workshop (2010); Teratology Society Annual Meeting (2010); Workshop on Cutting Edge Research in Environmental Health, Haifa, Israel (2011); Society of Toxicology Annual Conference, Washington, DC (2011); Spring meeting for Genetics and Environmental Mutagenesis Society on Genomics Era, Research Triangle Park, NC (2011); Natl Med Association, Environmental Health Plenary Session, Washington, DC (2011); Gordon Research Conference - Cellular & Molecular Mechanisms of Toxicity, New Hampshire (2011); FDA/NCTR 40th Anniversary - Global Summit on Regulatory Science Research and Innovation, Little Rock, AR (2011); Dioxin 2011 Conference, Brussels, Belgium (2011); ISEE Conference, Barcelona, Spain (2011); NTP Mixtures Workshop, RTP, NC (2011); Keynote at Women in Science Scholars Meeting, RTP, NC (2011); Erionite Workshop, RTP, NC (2011); Superfund Research Program Meeting, Lexington, KY (2011); PAHO EHS Grantees Meeting, RTP, NC (2011); APHA, Washington, DC (2011); Parkinson's Action Network Panel, Washington, DC (2012); NIEHS/EPA Children's Environmental Health and Disease Prevention, Bethesda, MD (2012); Partnership for Environmental Public Health Program Meeting, Bethesda, MD (2012); Society of Toxicology Annual Meeting, San Francisco, CA (2012) European Union Conference on Endocrine Disruptors, Brussels, Belgium (2012); Endocrine Society, Houston, TX (2012); APHA Meeting, Charlotte, NC (2012).

#### Major Committee Responsibilities:

TRTP Promotion Committee (1984-1989), Chairman (1987-1989)  
NIEHS Radiation Safety Committee (1985-1989)  
Mouse Strains for Carcinogenesis Studies (1985)  
NIEHS Research Support Subcommittee (1986)  
NIEHS Laboratory Casework Committee (1986-1989)

Judge, SOT Mechanism Section Graduate Student Awards (1985, 1986) Treasurer, NC SOT (1986-1988); Vice President, NC SOT (1988-1989); President (1989-1990)  
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 (1987-1989)  
SOT Mechanism Section, Nominations Committee (1987-1989)  
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 (1989-1994)  
CIIT, Dioxin Review Panel (1990-1994); Scientific Advisory Panel (1990)  
USEPA/ORD - Committee on Scientific Ethics (1990-1995)  
ILSI Committee on Pharmacokinetics (1992-1996)  
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 (1994-1999)  
Member - ORD Human Resources Committee (1999)  
Member of the Chemical Manufacturers Association Butadiene Panel (1992-1996)  
External Advisory Committee for the NIEHS Planning Grant for an EHS Center (1993-1995)  
Executive Committee of the Division of Toxicology, ASPET (1994-1997)  
SOT Council (1996-1999)  
ORD/OW Arsenic External RFA Committee (1996-1998)  
Executive Committee, International Society for the Study of Xenobiotics (1996-1999)  
International Organizing Committee, Dioxin 1992-2007  
Awards Committee, SOT (1998-2000)  
Liaison - NERL/NHEERL Interaction Workgroup (1998-2007)  
Chair, Division of Toxicology, ASPET (1998-2000)  
Executive Committee of the RTP Drug Metabolism Discussion Group (2003)  
Agency Wide PBT Initiative (1998-2005)  
Society of Toxicology – Presidential Chain (2002-2006)  
HESI Biomonitoring Technical Committee (2006)

Research Advisor for:

Dennis Darcey, MS, University of North Carolina, Department of Environmental Sciences and Engineering, 1982

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