

# William Slikker, Jr., Ph.D.

## Current Position

Director  
National Center for Toxicological Research  
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## Educational Background

- 1978 University of California, Davis, California  
Major: Pharmacology & Toxicology – Ph.D.
- 1974 University of California, Santa Barbara, California  
Major: Biological Sciences (Biochemistry & Endocrinology) – M.A.
- 1972 University of California, Santa Barbara, California  
Major: Biology – B.A.

## Professional Experience

- Oct 2006–present Director, National Center for Toxicological Research/Food and Drug Administration; Jefferson, Arkansas
- Jan-Oct 2006 Acting Director, National Center for Toxicological Research/Food and Drug Administration; Jefferson, Arkansas
- 2005 – 2006 Deputy Center Director for Research, National Center for Toxicological Research/Food and Drug Administration; Jefferson, Arkansas
- 1996 – 2005 Senior Biomedical Research Service (SBRS) position, Director, Division of Neurotoxicology, National Center for Toxicological Research/Food and Drug Administration; Jefferson, Arkansas
- 1993 – 2005 Director, Division of Neurotoxicology, National Center for Toxicological Research/Food and Drug Administration; Jefferson, Arkansas
- 1992 – 1993 Acting Director, Division of Neurotoxicology, National Center for Toxicological Research; Jefferson, Arkansas
- 1990 – 1991 Acting Director, Division of Reproductive and Developmental Toxicology, National Center for Toxicological Research; Jefferson, Arkansas
- 2004 – present Adjunct Professor, Department of Applied Science, University of Arkansas; Little Rock, Arkansas

1989 – 2000 Adjunct Professor, Department of Pharmaceutical Sciences, University of Tennessee; Memphis, Tennessee

1989 – present Adjunct Professor, Department of Pharmacology and Interdisciplinary Toxicology, and Department of Pediatrics, University of Arkansas for Medical Sciences; Little Rock, Arkansas

1989 Postdoctoral Training, Institute of Toxicology and Embryopharmacology, Free University; Berlin, Germany

1987 – 1992 Supervisory Pharmacologist (GM-15), Chief, Pharmacodynamics Branch, Division of Reproductive and Developmental Toxicology, National Center for Toxicological Research; Jefferson, Arkansas

1986 – 1989 Adjunct Associate Professor, Department of Pharmacology, School of Pharmacy, University of Mississippi; University, Mississippi

1985 – 1989 Adjunct Associate Professor, Department of Pharmacology and Interdisciplinary Toxicology, University of Arkansas for Medical Sciences; Little Rock, Arkansas

1984 – 1987 Supervisory Pharmacologist (GM-14), Chief, Pharmacodynamics Branch, Division of Reproductive and Developmental Toxicology, National Center for Toxicological Research; Jefferson, Arkansas

1983 – 1989 Adjunct Associate Professor, Department of Medicinal Chemistry, Center for the Health Sciences, University of Tennessee; Memphis, Tennessee

1982 – 1984 Supervisory Pharmacologist (GS-13), Pharmacodynamics Branch, Teratogenesis Research Division, National Center for Toxicological Research; Jefferson, Arkansas

1980 – 1990 Chief, Pharmacodynamics Branch, Teratogenesis Research Division, National Center for Toxicological Research; Jefferson, Arkansas

1980 – 1985 Adjunct Assistant Professor, Department of Pharmacology and Interdisciplinary Toxicology, University of Arkansas for Medical Sciences; Little Rock, Arkansas

1979 – 1980 Acting Branch Chief (GS-12), Pharmacodynamics Branch, Teratogenesis Research Division, National Center for Toxicological Research; Jefferson, Arkansas

1979 – 1982 Research Pharmacologist (GS-12), Pharmacodynamics Branch, Teratogenesis Research Division, National Center for Toxicological Research; Jefferson, Arkansas

1978 – 1979 Junior Staff Fellow (GS-11), Drug Research and Evaluation Program and Perinatal Research Program, DHEW/PHS/FDA/NCTR

1974 – 1977 Staff Research Associate, Pharmacology, University of California; Davis, California

## **Additional Training**

2016 Management and Leadership Training  
2016 Annual FDA Computer Security Awareness Training (online)  
2016 FDA Annual Records Management Training (online)  
2015 Annual FDA Computer Security Awareness Training (online)  
2015 Records Management Training (online)  
2015 CGE Travel Training (online)  
2015 Whistleblower Protection Training for All FDA Managers and Supervisors  
2015 OAGS Outreach and Training – Executive Session  
2015 Insider Awareness Training  
2014 Office of Human Resources (OHR) Supervisory Training  
2014 Utilizing Subject Matter Experts in the Hiring Process  
2014 Annual FDA Computer Security Awareness Training (online)  
2014 Government Charge Card Training (online)  
2014 80-Day Hiring Model (webinar training)  
2013 Annual FDA Computer Security Awareness Training (online)  
2013 Lab Training on New OSHA Hazard Communication Standard  
2013 Ethics Training for Supervisors (webinar)  
2013 Ethics Training – Financial Interests (conference call)  
2013 Family & Medical Leave Act Webinar  
2013 Ethics Training – Conflict of Interest (by webinar)  
2012 Annual FDA Computer Security Awareness Training (online)  
2012 EEO Training for Supervisors, NCTR Campus; Jefferson, AR  
2012 Notification and Federal Employee Anti-discrimination and Retaliation (NO FEAR) Act Annual online Training Course  
2012 Online IACUC Training  
2012 Annual Lab Safety Refresher Training  
2011 Annual FDA Computer Security Awareness Training (online)  
2011 Human Resources Training for Supervisors  
2010 New Consolidated Bargaining Agreement Training  
2010 Accelerated Hiring Process Training  
2010 EEO Compliance Training for Managers and Supervisors  
2010 GLP Webinar Training: Effective Documentation & Study Reconstructibility  
2010 Notification and Federal Employee Anti-discrimination and Retaliation (NO FEAR) Act Annual Training Course  
2010 Consolidated Bargaining Agreement Training  
2010 Annual FDA Ethics Training  
2010 Annual FDA Computer Security Awareness Training (online)  
2010 Records Management Training (online)  
2010 FDA: Hiring People with Targeted Disabilities Training, “2% by 2010”  
2009 GLP & Human Subject Protection Refresher Training  
2009 Training: GLP Amendments, Deviations and Unforeseen Circumstances: The Good, The Bad and The Ugly  
2008 EEO Compliance Training for Managers and Supervisors  
2008 Refresher Training: GLP regulations, NCTR Laboratory Operating Procedures (LOPs), and Human Subject Protection (HSP)  
2007 NCTR Annual Safety & Security Refresher Training for Laboratory Workers  
2007 EEO Compliance Training  
2006 Computer System Validation in a GLP Environment  
2006 Annual Ethics Training

2006 Performance Management Appraisal Program Supervisor Training  
 2005 EEO Compliance Training  
 2005 GLP Refresher Course  
 2005 Array Track Training  
 2004 GLP Training for NCTR Investigators  
 2004 Working with the IACUC  
 2004 Annual Ethics Training  
 2003 Computer Security Awareness Training (online)  
 2001 Managing Employee Discipline and Performance  
 1999 Labor Relations for Supervisors  
 1998 Microsoft Office 97  
 1997 How to Identify, Eliminate and Prevent a Hostile Environment  
 1997 Women's History Month - Attendance at the Seminar by Dr. Olga Skorapa  
 1996 Institutional Animal Care and Use Committee Workshop, "Meeting the Information Requirements of the Animal Welfare Act"  
 1995 AIDS in the Federal Workforce  
 1995 Science Internship Mentor Orientation  
 1995 EEO Critical Element Requirements  
 1995 Annual Ethics Briefing (Outside Activities)  
 1994 Complaint Prevention & Resolution Training  
 1994 Sexual Harassment Training  
 1994 The Manager as Coach  
 1994 Stress & Conflict Management  
 1994 Disability Awareness Lecture  
 1993 Supervisory Training: FDA Training Series for Interpersonal Skills, "Managing Change"  
 1993 Ethics Training  
 1993 Supervisory Training: Laying the Foundations for a High Performance Team  
 1992 Animal Care and Use Committee (ACUC) Training  
 1991 Safety Training  
 1991 Conflict of Interest and Ethics Training  
 1990 5.0 WordPerfect Training Course  
 1989 EEO; Sexual Harassment Prevention Seminar  
 1986 Introduction to PCs and Lotus 1-2-3 Training Course  
 1986 Good Laboratory Practices Training Course  
 1983 Supervision and Group Performance Course  
 1983 Sexual Harassment Prevention Seminar  
 1982 EEO for Supervisors and Managers Course  
 1979 Project Officer's Management Course

### **Membership in Professional or Honorary Societies**

- American Society for Pharmacology and Experimental Therapeutics (Admission requirements)
- International Society for the Study of Xenobiotics (Charter member - 1989)
- South Central Chapter of the Society of Toxicology (Charter member)
- Teratology Society (Admission requirements)
- Society of Toxicology (Admission requirements)
- Western Pharmacology Society (1984-1989)
- Society for Neuroscience, Arkansas Chapter
- Society for Neuroscience (1980-2010)

- MidSouth Computational Biology and Bioinformatics Society (Co-founder)
- Academy of Toxicological Sciences (Invited member)

## Honors and Awards

- 2015 Received the 2015 Josef Warkany Lecturer Award from **The Teratology Society** – This peer-nominated award recognizes a scientist who has significantly contributed to the field of teratology over his/her career.
- 2014 Selected by the Awards Committee of **The Toxicology Forum** to receive the George H. Scott Memorial Award – This award, which is named after an early member who helped guide the development of The Toxicology Forum, honors an individual in the field of toxicology who has demonstrated an outstanding role in developing and applying the science of toxicology.
- 2013 Received recognition award as co-founder of the MidSouth Bioinformatics and Computational Biology Society at its 10<sup>th</sup> Anniversary Annual Conference; Columbia, MO; April 5-6, 2013
- 2011 FDA Group Recognition Award – Outstanding Intercenter Science Collaboration as a member of the Pediatric Anesthesia Safety Initiative (PASI) Team; for developing and launching an unprecedented strategic partnership and several scientific studies addressing issues regarding the safety of anesthetics and sedatives in children
- 2011 FDA Certificate of Appreciation – For substantial contributions to the FDA Commissioner’s Fellowship Program
- 2010 FDA Group Recognition Award (Agency Cross-cutting) – As a member of the Commissioner’s Fellows Scientific Seminar Program Planning Group; for their exemplary contributions in developing and executing the inaugural FDA Commissioner’s Fellows Scientific seminar series that provided information on emerging challenges affecting each Center/Office
- 2009 FDA Career Service Award – For 30 years of government service
- 2009 FDA Scientific Achievement Award – Received as a member of the SAFEKIDS Initiative Team; for developing the framework for multi-phased, multi-year scientific initiative to assess the effects of anesthetics and sedatives on the developing human brain
- 2009 FDA Scientific Achievement Award – Received as a member of the Inter-Center Working Group on Pediatric Anesthetics; for outstanding collaboration in addressing the critical safety concern: neurotoxicity in juvenile animals exposed to anesthetic agents and the implications for the pediatric patient population
- 2008 FDA Leveraging Collaboration Award – Received as a member of the FDA MicroArray Quality Control (MAQC) Project Committee; for exceptional intercenter scientific collaboration in helping improve microarray technology and foster its proper applications in discovery, development and review of FDA-regulated products

- 2008 FDA Group Recognition Award – Received as a member of the Pediatric Anesthesia Research Group; for exhibiting superior teamwork and collaboration to attain important FDA goals concerning an increased understanding of the potential neurotoxicity used in pediatric anesthesia
- 2007 FDA Scientific Achievement Award – Received as a member of the FDA MicroArray Quality Control (MAQC) Project Committee; for exceptional intercenter scientific collaboration in working toward consensus on the generation, analysis, and application of microarray data in the discovery, development, and review of FDA-regulated products
- 2007 FDA Commissioner’s Special Citation – Received as a member of the FDA Pandemic Influenza Preparedness Task Force; for outstanding leadership in developing the FDA Pandemic Influenza Preparedness Strategic Plan and in advancing the Nation’s preparedness for an influenza pandemic
- 2006 Certificate of Appreciation from the NCI/FDA Interagency Oncology Task Force – For outstanding contributions as part of the Bioinformatics Subcommittee that has made significant progress to develop and implement strategies for NCI and FDA that foster increased productivity and provide electronic information resources that enable both organizations to conduct business more effectively
- 2006 Food and Drug Administration Cash Award
- 2005 NCTR Cash Award for outstanding efforts in developing and seeking external funding in support of toxicological studies for the anesthetic ketamine
- 2004 Food and Drug Administration Certificate of Appreciation for Outstanding contributions toward the “Calories Count” report of the FDA Obesity Working Group
- 2003 Food and Drug Administration Certificate of Appreciation from Center for Drug Evaluation and Research Seminar Program for “Safety Assessment Approaches for Application during Perinatal Development”
- 2003 NCTR Cash Award for continued support and development of the research agenda for the FDA Obesity Task Force
- 2003 Food and Drug Administration’s Group Recognition Award – Received as a member of the Ketamine Neurotoxicity Investigative Group; for valuable contributions in the evaluation of the neurotoxic potential of ketamine in neonates and development and execution of *in vivo* protocols for confirmatory investigations
- 2002 Team Award, CFSAN organizing subcommittee and breakout session teams for the 2002 FDA Science Forum, for outstanding performance, collegiality, and dedication in organizing and executing CFSAN’s contributions to the 2002 FDA Science Forum
- 2000 NCTR Cash Award for special service for extraordinary effort and dedication by continuously sharing scientific expertise as a mentor and providing an opportunity for developing students to experience research at the NCTR
- 1999 NCTR Cash Award for special service for outstanding leadership and professional contributions as the Director, Division of Neurotoxicology

- 1998 NCTR Cash Award in recognition of continuing excellence of performance and professional contributions as the Director, Division of Neurotoxicology/NCTR
- 1998 NCTR Cash Award for highly effective teamwork in organizing and conducting the meeting of the South Central Chapter of the Society of Toxicology and for demonstrating pride and congeniality as well as competence
- 1998 NCTR Cash Award for excellence in service to the Center as an SBRS member
- 1997 NCTR Cash Award for creativity in developing partnering relationships, especially with ASTRA Pharmaceuticals
- 1997 Group Recognition award as a member of NCTR 25th Anniversary Committee
- 1997 NCTR Cash Award for Leadership in inter-center communication, especially as it relates to a FDA-wide neurotoxicology effort
- 1997 NCTR Cash Award for Leadership – Influencing/guiding others toward achieving organizational goals
- 1994 Outstanding Performance Rating, Employee Performance Management System, NCTR/FDA
- 1993 Certificate of Appreciation for exceptional managerial efforts and scientific insight in encouraging and emphasizing the FDA Commissioner's collaborative research directives
- 1990 Top Five Supervisors Award, NCTR/Federal Women's Program (FWP)
- 1990 Travel Award for ASPET to attend the XI<sup>th</sup> International Congress of Pharmacology; Amsterdam, Netherlands
- 1987 Travel Award from ASPET to Attend the X<sup>th</sup> International Congress of Pharmacology; Sydney, Australia
- 1985 Outstanding Young Men of America; Who's Who in Frontier Science and Technology
- 1981 FDA Quality Step Increase
- 1979 FDA Cash Award for outstanding achievement in the study of estrogen metabolism

**FDA Special Assignments and Advisory Activities**

- 2014 Member of the European Food Safety Authority (EFSA) International Scientific Conference Advisory Committee
- 2013 - present Co-Chair, Global Coalition for Regulatory Science Research Executive Committee
- 2011 Member of the FDA Innovation Initiative Team
- 2011 Member of the FDA Performance Review Board (PRB)

2010	Member, NIH/FDA Council on Regulatory Science
2010	Co-Chair, FDA Chemical and Environmental Science Council (CESC)
2010	FDA Science & Innovation Strategic Advisory Council (SISAC)
2009 - present	Member of the FDA Executive Resources Board
2009 - present	Member, National Academies of Science Standing Committee on Use of Emerging Science for Environmental Health Decisions – Government Liaison Group
2009	FDA/NCTR Representative on the National Toxicology Program Executive Committee
2007 - present	Member, IARS/FDA/SmartTots (formerly known as SafeKids) Steering Committee to assess safety of anesthetics and sedatives in young children
2007 - present	Member of the FDA Policy Council
2006 - 2007	Member of the FDA Executive Resources Board
2006 - present	Member of the FDA Management Council
2006	Overview briefing of NCTR to the FDA/Office of Management & Budget (by Pictel from NCTR)
2006	Member of the FDA Interdisciplinary Pharmacogenomic Review Group (IPRG)
2006 - present	Member of the FDA Critical Path Steering Committee
2006	Member of the FDA Science Synergy Working Group
2004	NCTR representative to FDA for the CFSAN/NCTR White Paper “Opportunities for Progress on the Pathway to Healthier Consumers, Addressing Critical FDA-Related Food and Nutrition Research Needs”
2003	NCTR representative to the FDA Obesity Task Force
2001 - 2007	FDA Liaison to the Society of Toxicology
2001 - 2006	Member, FDA Senior Biomedical Research Service (SBRS) Committee
2001 - 2005	Invited Science Advisory Committee Member for CIIT Center for Health Research
2001 - 2003	Invited Planning Committee Member for the International Life Sciences Institute (ILSI)/EPA Workshop to Develop a Framework for Assessing Children’s Health Risks



- 2000 Invited participant at the NIOSH/NIEHS/EPA/CMA and UAW sponsored workshop on "Future Research for Improving Risk Assessment Methods", Aspen, CO
- 2000 Invited panel member to the Environmental Protection Agency Workshop to Peer Review the Benchmark Dose Technical Guidance Document, Washington, DC
- 1999 - 2000 Member, FDA's Senior Science Council
- 1999 - 2000 Member, FDA's FY 2002 Strategic Planning and Budget Subcommittee on Premarket Strategy
- 1999 - 2000 Committee Member, Health and Environmental Sciences Institute, International Life Sciences Institute, Developmental and Reproductive Toxicology Technical Committee's Behavioral Testing Project Committee; Washington, DC
- 1999 - 2000 Principal Investigator – Established an Interagency Agreement with EPA to develop a biologically based dose-response model for food-borne pesticides. The purpose of this 2-3 year, \$250,000 agreement, is to establish and validate a biologically-based dose-response model to enhance the quantitative risk assessment of foodborne pesticides of FDA relevance
- 1999 Invited panel member at the Environmental Protection Agency Peer Review Workshop, "ORD Strategy for Research on Environmental Risk to Children" in Washington, DC
- 1999 Invited participant at the Workshop on "Harmonization of Cancer and Non-Cancer Risk Assessment," Contemporary Concepts in Toxicology, Society of Toxicology Annual Meeting in Arlington, VA
- 1999 Member of the World Health Organization (WHO)/International Agency for Research on Cancer (IARC), Monographs on the Evaluation of Carcinogenic Risks to Humans, "IARC Working Group on Some Pharmaceutical Agents" (including four HIV therapeutics); Lyon, France
- 1998 - 1999 Member, FDA's FY 2001 Planning and Budget Subcommittee on Standards Development
- 1997 - 2000 Co-chair, Interagency Committee on Neurotoxicology (ICON)
- 1997 Chair, Discussion Group #3, Optimizing and leveraging FDA resources to enhance flexibility in problem solving, FDA Forum on Regulatory Sciences
- 1995 NCTR/FDA representative at the EPA/ILSI Working Group on Human Variability; Washington, DC
- 1995 Member, FDA Employee Performance Management System Focus Group, Office of Personnel Management
- 1995 Chair, NCTR Research Scientists Peer Review
- 1994 Co-Chair, NCTR Research Scientists Peer Review

- 1994 - 2005 NCTR/FDA representative and Steering Committee member to the FDA Neurotoxicity Working Group
- 1993 NCTR/FDA representative for the Annual Research Planning meeting of ORA/Seafood Products Research Center, Seattle District
- 1993 FDA invited Panel member for Neurotoxicology: International Life Sciences Institute/FDA sponsored Workshop to review the FDA Red Book II; Washington, DC
- 1991 - 1996 Principal Investigator – Established an Interagency Agreement with NIEHS/NTP to develop animal models to assess the potential neurotoxicity of HIV/AIDS therapeutics agents (ddC, ddi, AZT, etc.). The purpose of this 6-year, \$2.8 million agreement was to establish and validate rodent and nonhuman primate models to assess HIV therapeutics and to identify mechanisms of and preventions for potential neurotoxicity.
- 1991 - 1994 FDA representative for the Working Party on Neurotoxicology, Subcommittee on Risk Assessment Federal Coordinating Council on Science, Engineering and Technology and co-author of Principles of Neurotoxicity Risk Assessment
- 1991 NCTR/FDA representative for the Workshop: Criteria for Judging Relative Toxicity of Chemicals from Developmental Toxicity Data, NIEHS
- 1991 NCTR/FDA representative for the Workshop on Health Effects of Manganese in the Environment, U.S. EPA
- 1990 - 1991 Originator of Memorandum of Understanding between U.S. EPA and NCTR/FDA on neurotoxicity risk assessment procedures
- 1989 - 2000 Member, Steering Committee, Interagency Committee on Neurotoxicology (ICON). Co-organizer of this government-wide committee focused on coordinating research and regulatory efforts in the field of neurotoxicology.
- 1989 NCTR Scientific Coordinator for the "Arrangement for the Joint Research on Pharmacokinetics and Drug Metabolism" between the Korea (Advanced) Institute of Science and Technology and NCTR
- 1989 FDA/NCTR invited representative to chair a working group on "Coordination of Federal Research Programs" and participate in a workshop on Federal Interagency Coordination of Neurotoxicology Research and Regulatory Programs co-sponsored by the Congressional Office of Technology Assessment (OTA) and the U.S. EPA
- 1988 - 1990 NCTR representative for the National Toxicology Program Board of Scientific Counselors, Developmental and Reproductive Toxicology Programs Review Subcommittee
- 1988 - 1990 NCTR/FDA representative to the Task Force of Environmental Cancer and Heart and Lung Disease sponsored workshop on The Effects of Pesticides on Human Health, "Neurotoxic Effects of Pesticides" Subcommittee

- 1987 Committee member, administrative review of applications for grants and cooperative agreements submitted to Agency for Toxic Substances and Disease Registry
- 1987 NCTR representative (alternate) on interagency workgroup for the proposed Comprehensive Assessment Information Rule, Office of Pesticides and Toxic Substances
- 1987 NCTR Awards Committee Member
- 1987 Chair of the Subcommittee on Personnel Issues of the Committee on Administrative Planning
- 1987 Co-organizer of Risk Assessment Workshop on Reproductive and Developmental Toxicology and co-leader of a workgroup on the risk assessment of THC
- 1987 Member, NCTR-UAMS Institutional Coordinating Committee
- 1986 - 1988 Member of FDA Commissioner's Action Plan Phase II Committee on enhancing scientific excellence within FDA
- 1986 Chair, NCTR Research Scientist Peer Review
- 1985 Co-chair, NCTR Research Scientist Peer Review
- 1984 - 1990 Principal Investigator for an Interagency Agreement between the National Institute for Drug Abuse and NCTR, "Neuropathology and Behavioral Toxicology of Chronic Delta-9-THC and Marijuana Exposure in the Nonhuman Primate." This \$3 million, 8-year study required the recruitment of 3 Ph.D. level and 2 technical-level employees and 5 expert consultants. The resources required for this project, including a new \$1 million inhalation and Primate Research Facility, has provided the necessary support for many related studies and expanded the scientific capabilities of the NCTR.
- 1981 Invited participant in the Interagency Regulatory Liaison Group (IRLG) Workshop on Reproductive Toxicity Risk Assessment, Pharmacokinetics Group (September 21-23, 1981). The publication from this workshop defined the state-of-the-art in reproductive toxicity risk assessment.
- 1979 - 1988 Member of the Project Advisory Group for Contract: Synthesis of Unlabeled, Stable Isotope, and Radioisotope Labeled Compounds, NCTR, RFP No. 222-83-2011(P)
- 1979 - 1981 Member of the Project Advisory Group for Contract: Comparative Hormonal Potency of Estrogens in the Rhesus Monkey, Bureau of Foods, #223-78-2230
- 1979 As a member of a three-man team, the incumbent was requested by the Bureau of Veterinary Medicine to present available research data concerning the estrogens as a class. At this meeting in Rockville, Maryland, it was the incumbent's responsibility to present pharmacokinetic and metabolic data

generated by his research team. The incumbent addressed the metabolism of DES, estradiol, and ethynylestradiol in the adult and pregnant monkey and in the mouse. The information presented was used by the Bureau of Veterinary Medicine to aid in the impending decision to regulate estradiol benzoate.

1978 The incumbent, as a member of a two-man team, was invited to give a presentation to the Bureau of Drugs in Rockville, MD. The talk was titled: "Transplacental pharmacokinetics and metabolism and diethylstilbestrol and estradiol in the rhesus monkey." The purpose of the presentation was to expose the Bureau of Drugs to the research capabilities and interests of the NCTR scientific staff. A similar presentation was made at the FDA Policy Board Meeting at the NCTR in 1978.

### **Offices, Committee Assignments, or Special Assignments in Professional and Honorary Societies, Advisory Boards, and Commissions**

2014 Member of the Arkansas Reproductive Health Monitoring System's Advisory Commission; Arkansas Children's Hospital Research Institute; Little Rock, AR

2013 – present Member of the Data Science Advisory Board of the Emerging Analytics Center at the University of Arkansas at Little Rock

2012 – 2013 President, Society of Toxicology

2011 – 2012 Vice President, Society of Toxicology

2010 – 2011 Vice President-Elect, Society of Toxicology

2010 – present Member, Editorial Board, CNS & Neurological Disorders-Drug Targets

2009 – present Associate Editor, *American Journal of Neuroprotection & Neuroregeneration* (AJNN)

2007 – 2009 Treasurer and Chair, Finance Committee, Society of Toxicology (5/1/07 – 4/30/09)

2006 – 2007 President, Academy of Toxicological Sciences

2006 – 2007 Treasurer-elect, Society of Toxicology

2005 – 2008 Member, Editorial Board, *Reproductive Toxicology*

2004 – 2006 Chair, Membership Committee, Society of Toxicology

2004 – 2006 President, MidSouth Computational Biology and Bioinformatics Society

2004 – 2005 President, Arkansas Chapter of the Society for Neuroscience

2003 – 2006 Elected Member, Membership Committee, Society of Toxicology

2002 – 2008 Editorial Board Member, *Experimental Biology and Medicine*

2002 – 2003	President, Teratology Society
2001 – 2006	Member, FDA Senior Biomedical Research Service (SBRS) Credentials Committee
2001 – 2002	Vice President, Teratology Society
2001 – 2002	Member, U.S. EPA Food Quality Protection Act Science Review Board
2000 – 2003	Member, Program Committee, American Society for Pharmacology and Experimental Therapeutics
2000 – 2001	President, Arkansas Chapter of the Society for Neuroscience
1999 – present	Associate Editor, <i>Toxicological Sciences</i> , Society of Toxicology
1999 – 2000	Vice-President, Society for Neuroscience, Arkansas Chapter
1998 – 2000	Chairman, Publication Committee, Teratology Society
1997 – 2000	Member, Continuing Education Committee, Society of Toxicology
1997 – 2000	Member, Editorial Board, <i>Reproductive Toxicology</i>
1996 – 2000	Member, Editorial Board, <i>Neurotoxicology and Teratology</i>
1996 – 1999	Member, Task Force on Improving the Scientific Basis for Risk Assessment, Society of Toxicology
1995 – 1998	Section Editor and Member Publication Board, <i>Teratology</i>
1995 – 1998	Councilor, Teratology Society
1995 – 1996	President, Neurotoxicology Specialty Section, Society of Toxicology
1994 – present	Associate Editor: <i>NeuroToxicology</i>
1994 – 1995	Vice-President, Neurotoxicology Specialty Section, Society of Toxicology
1993 – 1996	Chair, Executive Committee, Section on Developmental Pharmacology, American Society of Pharmacology and Experimental Therapeutics
1992 – 2000	Member, Publication Committee, Teratology Society
1992 – 1994	Chair, Student Affairs Committee, Teratology Society
1992	Symposium Co-Organizer "Cocaine Pharmacokinetics during Pregnancy: Relationship to Fetal Exposure and Developmental Toxicity," Federation of American Societies for Experimental Biology

- 1992 Workshop Co-Organizer, "Toxicokinetic Studies of Pregnant Animals in Safety Evaluation," Teratology Society
- 1991 – 1994 Member, Student Affairs Committee, Teratology Society
- 1991 Symposium Organizer, "Neurobehavioral Effects of Developmental Cocaine Exposure: Clinical and Experimental Findings," Neurobehavioral Teratology Society
- 1991 Symposium Organizer, "The Role of Glucocorticoids in Normal and Abnormal Developmental," American Society of Pharmacology and Experimental Therapeutics
- 1990 – 1996 Member, Executive Committee, Section on Developmental Pharmacology, American Society of Pharmacology and Experimental Therapeutics
- 1990 – 1991 Chair, Nominations Committee, Teratology Society
- 1990 Member, Organizing Committee for the Annual Meeting of the South Central Chapter of the Society of Toxicology
- 1989 – 1990 Member, Nominations Committee, Teratology Society
- 1988 – 1989 President, South Central Chapter of the Society of Toxicology
- 1987 – 1988 Vice President, South Central Chapter of the Society of Toxicology
- 1987 Symposium Organizer and Chair, The Influence of Chemical Disposition on Developmental Toxicity, Teratology Society
- 1985 – 1987 Secretary/Treasurer, South Central Chapter of the Society of Toxicology
- 1985 Session Chair, American Society of Pharmacology and Experimental Therapeutics Meetings
- 1985 Session Chair, Trophoblast Conference
- 1983 Session Chair, Teratology Society Meetings
- 1982 – 1983 Member of Program Committee, South Central Chapter of Society of Toxicology

**Outside Professional Advisory and Consulting Activities:**

- 2014 – present Member of the Arkansas Reproductive Health Monitoring System's (ARHMS) Advisory Commission
- 2006 – present Member of the Historically Black College or University – Undergraduate Program (HBCU-UP) External Advisory Committee at Philander Smith College; Little Rock, AR
- 2006 – present Board Member, Arkansas Biosciences Institute

- 2005 Co-Chair of the Society of Toxicology Symposium, "Systems Biology: Approaches and Applications to Toxicology;" New Orleans, LA; March 10, 2005
- 2004 Served as member of the Tobacco-Related Disease Research Program General Biomedical Sciences Study Section; San Francisco, CA; April 30, 2004
- 2004 Co-chair, Society of Toxicology Workshop, Systems Biology: A New Venue for Exploring Mechanisms of Developmental Toxicity; Baltimore, MD
- 2003 Co-chair, Society of Toxicology Workshop, Dose Dependent Transitions in Mechanisms of Toxicity; Salt Lake City, UT
- 2003 Organizer, Chair, and Speaker – American Society for Pharmacology and Experimental Therapeutics (ASPET) Annual meeting: Symposium entitled "Developmental Neurotoxicity Induced by NMDA Antagonists/GABA Agonists;" San Diego, CA; April 2003
- 2003 – 2005 Member, International Life Sciences Institute (ILSI), Mode of Action Human Relevance Workgroup; Washington, DC
- 2003 Invited to serve as a full member of the California Tobacco-Related Disease Research Program (TRDRP) Study Section, University of California, Oakland, CA; April 2003
- 2003 Reviewer for EPA National Health and Environmental Effects Research Laboratory (NHEERL) Human Health Research Implementation Plan; Research Triangle Park, NC
- 2001 – 2005 Served as member of the Science Advisory Committee (SAC) Joint Review of the CIIT Centers for Health Research (CIIT) Research Program; Research Triangle Park, NC
- 2001 – 2004 Co-chair ILSI Committee, "Dose-dependent Transitions in Mechanisms of Toxicity"
- 2000 – 2002 Member, Search Committee for Director, Neurotoxicology Division, Environmental Protection Agency; Research Triangle Park, NC
- 1997 – 1999 Member, Committee on Faculty, University of Arkansas for Medical Sciences; Little Rock, AR
- 1995 Reviewer for EPA's Grants for Research Program under "Human Health Risk Assessment" topic
- 1995 Reviewer for The Johns Hopkins Center for Alternatives to Animal Testing, Grant Application
- 1990 – 1992 Member, Executive Council of the Division of Toxicology, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences; Little Rock, AR

1990	Member, Promotions and Tenure Committee, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences; Little Rock, AR
1990	Reviewer for RFA-89-HD-10 "The Role of the Placenta in Transmission and Treatment of HIV Infection in the Newborn," National Institute of Child Health and Human Development (NICHD)
1990	Reviewer of Investigator's report "Effects of methanol vapors on human function," Health Effects Institute
1989 – 1995	Member, Editorial Board, <i>Fundamental and Applied Toxicology</i>
1988 – 1990	Member, Drug and Alcohol Abuse Coordinating Committee, University of Arkansas for Medical Sciences; Little Rock, AR
1987	Consultant and team leader on nonhuman primate placental transfer studies to Dr. Andrew Hendrickx, Director; California Primate Research Center; University of California; Davis, CA
1987	Reviewer for National Institutes of Health (NIH) Toxicology Study Section and March of Dimes grants ( <i>ad hoc</i> )
1984 – 1985	Member, Curriculum Committee, Department of Pharmacology, University of Arkansas for Medical Sciences; Little Rock, AR
1983 – 1985	Chair, Curriculum Committee, Interdisciplinary Toxicology Division, University of Arkansas for Medical Sciences; Little Rock, AR
1980 – 1984	Research Council Member, University of Arkansas for Medical Sciences; Little Rock, AR

### **Other Significant Information**

- The incumbent has participated in several Peer Review Systems at the NCTR. The incumbent regularly reviews manuscripts and protocols. These activities are important in maintaining a high quality research at the NCTR.
- The incumbent has coordinated and assisted in the direction of sixteen predoctoral Fellows. The graduate students, Felix Adatsi, Hudson Bates, Harry William Broening, III, Helen Cunny, Phil Goad, Dan Kelly, Robert Kwarta, Oh-Seung Kwon, Gail McClure, John Lipscomb, David Plowchalk, Linda Raitano, Jon Rowland, Steve Schmid, Mary Alice Smith Chris Stewart, and Alex Xu have since earned their doctorate and are employed in the field of toxicology and/or clinical medicine. The integration of their thesis work with the goals of the Division of Neurotoxicology and the accomplishment of their research projects was the responsibility of the incumbent. With proper motivation and guidance, these students produced top quality research of considerable value to the NCTR/FDA and in turn, became well trained toxicologists.



- Over twenty postdoctoral fellows have been directly or indirectly supervised by the incumbent including: Drs. Zbigniew Binienda, John Bowyer, Amy Cada, David Cawthon, Sherry Ferguson, Katherine Flynn, Keri Hopkins, Syed Imam, Malak Kolta, John Meredith, Tucker Patterson, Linda Roberts, Jennifer Sandberg, Gene Schulze, Larry Schmued, Jennifer Schnellmann, John Tor-Agbidye, Jon Popke, Cheng Wang, Lulu Xu, Zengjun Xu, and Jamal El Yazal.
- While the incumbent served as Director, Division of Neurotoxicology, he was responsible for direct supervision of eight Ph.D. level scientists (2 SBRS, 3 GS-15, 2 GS-14, and 1 GS-12) and one program support specialist; with overall administrative responsibility for over 30 government employees, visiting scientists, and guest workers within the Division.
- The incumbent envisioned and established, first the Neurotoxicology Program, and later, the Division of Neurotoxicology at NCTR/FDA in 1992. Over a twelve-year period, he recruited all seven senior staff whose combined efforts with other scientists within the division at NCTR, FDA, and outside institutions resulted in approximately 40 publications per year. The majority of those publications are in quality, peer-reviewed journals. The NCTR Scientific Advisory Board (SAB) has twice reviewed the division and, on both occasions, the results have been very positive as indicated by the January, 1998, SAB Subcommittee summary statement: "We agree with the opinion stated in the previous review of the Division of Neurotoxicology, conducted on January 7-8, 1993, that the Division is a valuable resource to both the scientific and regulatory missions of the FDA. There is no question that the development of drugs and devices and the provision of a safe food supply will continue to be confronted by issues of neurotoxicity and that the FDA is well-served by maintaining a strong Division of Neurotoxicology at NCTR. Further, the Division as it currently exists is a unique resource with capabilities that are not duplicated elsewhere."
- The incumbent has employed a variety of leveraging techniques to support FDA-relevant research at the NCTR/FDA. Sources of extramural funding have included other government agencies – IAGs with NIDA, NIEHS, EPA, NICHD and industry (CRADAs).
- Referee for *The Journal of American College of Toxicology*, *Toxicology and Applied Pharmacology*, *Drug Metabolism and Disposition*, *Life Sciences*, *Biochemical Pharmacology*, *Teratology*, *Molecular Pharmacology*, *Chemco-Biological Interactions*, *Reproductive Toxicology*, *Fundamental and Applied Toxicology*, *Journal of Pharmacology and Experimental Therapeutics*, *Journal of Obstetrics and Gynecology*, and *Journal of Neurochemistry*.

## Teaching Service

Course Instruction (University of Arkansas for Medical Sciences):

2000-2002	Dissertation Research
1986-1997	Dissertation Research
1994-1995	Alcohol and Drug Dependency
1989-2001	Toxicology for Graduate Studies, 5063
1985	Pharmacology for Graduate Students (Distribution and Pharmacokinetics)
1985	Pharmacology/Toxicology, 5033 General Principles (Distribution)
1980-81	Medical School Pharmacology (Drug Metabolism)
1980	Toxicology (Reproductive Toxicology)

Course Instruction (University of Mississippi):

1990                      Methods in Toxicology (Pharmacology 679)

### Special Invitations

1. Invited presentation on "Analytical Methods for Estrogenic Agents" at the 4th Annual Spring Workshop and Exposition of the Association of Official Analytical Chemists; San Francisco, CA; May 1979.
2. Invited presentation on "Transplacental Pharmacokinetics and Metabolism of Natural and Synthetic Estrogens in the Rhesus Monkey" at the Gordon Research Conferences, Toxicology and Safety Evaluations; Meriden, NH; August 1979.
3. Invited presentation on "Placental Transfer and Metabolism of Estradiol-17B, Ethynylestradiol and Diethylstilbestrol in *Macaca mulatta*" at the Northwest Center for Medical Education, School of Medicine, Indiana University; Gary, IN; December 1979.
4. Invited presentation of "Pharmacokinetic Factors that Influence the Delivery of Natural and Synthetic Estrogens to the Subhuman Primate Fetus" at the Department of Pharmacology, University of Kentucky, Lexington, KY; 1980.
5. Invited presentation on "The Cholestatic Activity of Glucuronide Conjugates of Estrogens" at the Gordon Research Conferences, Drug Metabolism; Plymouth, NH; 1981.
6. Invited presentation on "A New Class of Cholestatic Agents: The D-Ring Steroid Glucuronide Conjugates" at the Department of Pharmacology, University of Groningen, The Netherlands; 1982.
7. Invited presentation on "The Estrogens: Placental Transfer and Metabolism" at the California Primate Research Center; Davis, CA; 1982.
8. Invited presentation on "Developmental Neurotoxicology: Effects of Trimethyltin and Methylmercury" at the Dartmouth Medical School; Lebanon, NH; 1983.
9. Invited presentation on "The Rhesus Monkey as a Model for Biomedical Research" at the Veterans Administration Hospital; White River Junction, VT; December 1983.
10. Invited presentation on "Placental Transfer and Metabolism of Synthetic and Natural Steroid Hormones" at the Grand Rounds of the Obstetrics and Gynecology Department, University of Arkansas for Medical Sciences; Little Rock, AR; 1984.
11. Invited presentation on "Placental Transfer and Metabolism of Glucocorticoids in the Rhesus Monkey" at the Gulf-South Regional Society of Toxicology Meeting; Galveston, TX; 1984.
12. Invited to co-author a review article titled "Steroid D-Ring Glucuronides: A New Class of Cholestatic Agents" for *Trends in Pharmaceutical Sciences (TIPS)*, 6:256-259, 1985.
13. Invited to organize and co-chair a symposium titled "Developmental Neuropharmacology/ Toxicology" for the Western Pharmacological Society; Lake Tahoe, CA; 1985.

14. Invited presentation on "Developmental Toxicology" at the Industrial Research Institute, NCTR Spotlight; Jefferson, AR; 1985.
15. Invited presentation on "Metabolism and Pharmacokinetics of Selected Naturally Occurring and Synthetic Estrogens and Glucocorticoids in the Pregnant Rhesus Monkey" at the International Workshop Symposium, Pharmacokinetics in Teratogenesis, West Berlin; September 1985.
16. Invited presentation on "Development Neurotoxicology" at the Department of Pharmacology and Interdisciplinary Toxicology, University of Arkansas for Medical Sciences; Little Rock, AR; 1985.
17. Invited presentation on "Disposition of Various Steroids During Fetal Development" at the Department of Pharmacology, St. Mary's Hospital Medical School, University of London, London; 1985.
18. Invited presentation on "Metabolism of Antihistamines" at the National Toxicology Program Science Workshop Chemical Class Studies; Research Triangle Park, NC; 1985.
19. Invited presentation on "Pharmacokinetics of Delta-9-THC and Marijuana Smoke in the Rhesus Monkey" at the Department of Pharmacology, University of Mississippi; University, MS; 1986.
20. Invited presentation on "Transplacental Pharmacokinetics and Metabolism of Drugs and Endogenous Hormones" at the American Pharmaceutical Association Annual Meeting; San Francisco, CA; 1986.
21. Invited presentation on "The Placental Interface" Lecture for the Teratology Education Course, Teratology Society; Boston, MA; 1986.
22. Invited presentation on "Improving Risk Assessment for Chemicals Affecting the Developing Central Nervous System" at the Second Conference on Current Concerns on Toxicity; Millbrae, CA; 1986.
23. Invited presentation on "The Role of the Placenta in the Disposition and Developmental Toxicity of Estrogens" at the Teratology Society; Palm Springs, CA; 1987.
24. Invited Organizer and Chair of "The Influence of Chemical Disposition on Developmental Toxicity" Symposium of the Teratology Society; Palm Springs, CA; 1987.
25. Invited presentation on "Placental Transfer" at the Pharmacology Division, Genetech, Inc.; South San Francisco, CA; 1987.
26. Invited presentation on "Risk Assessment of Developmental Neurotoxicants" at the EPA; Las Vegas, NV; 1987.
27. Invited presentation on "Effects of Chronic Marijuana Smoke Exposure on Cognitive Function in the Rhesus Monkey: Experimental Design and Initial Findings" at the 5th International Neurotoxicology Conference; Little Rock, AR; 1987.

28. Invited presentation on "MDMA: Ecstasy or Anti-5HT" at the University of Arkansas for Medical Sciences; Little Rock, AR; 1988.
29. Invited to co-chair a session at the International Symposium, Developmental Biology and Toxicology in Nonhuman Primates, and invited presentations: "Ontogeny of Hepatic Drug Metabolizing Enzymes in the Rhesus Monkey: Comparison of *In Vitro* and *In Vivo* Conditions" and "Steroid Metabolism by the Perfused Rhesus Monkey and Human Placenta: A Comparative Study" in Freie Universitat, Berlin; 1988.
30. Invited Chair of a session on Methods of Evaluating Toxicity and invited presentation "Risk Assessment of Potential Neurotoxicants: Are the Current Methods Adequate?" at the Fourth Conference on Current Concerns on Toxicity and Waste Management; Millbrae, CA; 1988.
31. Invited to Co-chair a session and present "Neurochemical and Behavioral Effects of Orally Administered MDMA: Comparison of the Rodent and Nonhuman Primate" at the Sixth International Neurotoxicology Conference, Drug Abuse and Brain Development; North Little Rock, AR; 1988.
32. Invited presentation on "Placental Metabolism of Steroids in the Human and Nonhuman Primate" at Grosser Horsaal, Universitats-Frauenklinik und, Kantonales Frauenspital Bern; Bern, Switzerland; 1988.
33. Invited presentation on "Chronic Marijuana Smoke Exposure in Rhesus Monkeys: Behavioral and Neuropathological Effects" at the American Medical Society on Alcoholism and Other Drug Dependencies; Atlanta, GA; 1989.
34. Invited presentation on "Placental Transfer of Psychoactive Agents in the Nonhuman Primate" for the Behavioral Teratology Society Symposium "Use of Nonhuman Primates in Behavioral Teratology," Behavioral Teratology Meetings; Richmond, VA; 1989.
35. Invited Co-organizer of The Seventh International Neurotoxicology Conference, Neurotoxicology and Risk Assessment; Chair for session: Neurobiologic Basis of Neurotoxicity; presentation on "Quantitative Risk Assessment of Neurotoxicants;" Little Rock, AR; 1989.
36. Invited presentation on "The Risk Assessment Process: Application to Neurotoxicants" at the Korean Institute of Science and Technology; Seoul, Korea; 1989.
37. Invited presentation on "Placental Transfer of Chemicals in the Nonhuman Primate" at the Alternative Fuels Workshop, Health Effects Institute; Boston, MA; 1989.
38. Invited presentation on "Phenytoin Pharmacokinetics in the Pregnant Rodent: Relationship to Developmental Toxicity and Thyroid Function" at the Symposium "Pharmacokinetic Studies toward Mechanisms in Drug Teratogenesis," European Teratology Society; Budapest, Hungary; 1989.
39. Invited presentation on "Biological Model for Neurotoxicity Risk Assessment" at the Bioenvironmental Hazard on Human Health Symposium, The Chinese University of Hong Kong, Hong Kong and at the International Symposium on Chemical Toxicity and Risk Assessment, Korean Institute of Science and Technology; Seoul, Korea; 1990.

40. Invited Co-organizer of The Eighth International Neurotoxicology Conference, Role of Toxicants in Neurological Disorders and Session Chair of Session IV "Modulators of Neurotoxicity;" Little Rock, AR; 1990.
41. Invited presentation on "Risk Assessment of Neurotoxicants" at the Interagency Committee on Neurotoxicology Meeting; Washington, DC; 1990.
42. Invited presentation on "Research on Placental-Drug Interactions" at the Division of AIDS, NIAID-sponsored Workshop on the Role of Placenta in HIV Infection & Therapy; Nantucket, MA; 1990.
43. Invited Work Group Expert at the U.S. EPA/NIEHS-sponsored Workshop on Health Effects of Manganese; Research Triangle Park, NC; 1991.
44. Invited Group Discussion Leader at the NIEHS-sponsored Workshop on Criteria for Judging Relative Toxicity of Chemicals from Developmental Toxicity Data; Research Triangle Park, NC; 1991.
45. Invited presentation on "Risk Assessment of Psychoactive Agents" for Grand Rounds Series, Department of Psychiatry and Behavioral Sciences, University of Arkansas for Medical Sciences; Little Rock, AR; 1991.
46. Invited book chapter, "Risk Assessment for Neurotoxicants," by D. Gaylor and W. Slikker, Jr. in *Neurotoxicology* (eds. H. Tilson and C. Mitchell), Raven Press, 1991.
47. Invited presentation, "Assessing Risk for Neurotoxicants," Sigma Xi, University of Arkansas for Medical Sciences; Little Rock, AR; 1991.
48. Invited organizer of the Neurobehavioral Teratology Society Symposium on "Neurobehavioral Effects of Developmental Cocaine Exposure: Clinical and Experimental Finding," and presentation "Prenatal Cocaine Exposure in the Monkey: Preliminary Findings from Transplacental Pharmacokinetic and Postnatal Assessment Studies;" Boca Raton, FL; 1991.
49. Invited organizer of American Society for Pharmacology and Experimental Therapeutics/FASEB Symposium "The Role of Glucocorticoids in Normal and Abnormal Development" and presentation of "Placental Transfer and Metabolism of Endogenous and Synthetic Glucocorticoids" at the ASPET Meeting; San Diego, CA; 1991.
50. Invited presentation, "Neurotoxicity Assessment Techniques for Anti-HIV Therapeutics: Preliminary Data from ddC Exposure in the Monkey," at Frontiers in HIV Therapy; San Diego, CA; 1991.
51. Invited book chapter, "Behavioral, Neurochemical and Neurohistological Effects of Chronic Marijuana Smoke Exposure in the Nonhuman Primate," in Volume 4, *Biochemistry and Physiology of Substance Abuse* (eds., L. Murphy and A. Bartke), CRC Press, 1992.
52. Invited Co-organizer of American Society for Pharmacology and Experimental Therapeutics/FASEB Symposium "Cocaine Pharmacokinetics during Pregnancy: Relationship to Fetal Exposure and Developmental Toxicity," FASEB Meeting; Anaheim, CA; 1992.

53. Invited Workshop Co-organizer, "Toxicokinetic Studies of Pregnant Animals in Safety Evaluation," at the Teratology Society Annual Meeting; Boca Raton, FL; 1992.
54. Invited Workshop Co-organizer, "Anti-HIV Therapy and the Placenta," at the 12th Rochester Trophoblast Conference; Rochester, NY; 1992.
55. Invited Conference Co-organizer, "Principles of Developmental Neurotoxicology," at the Tenth International Neurotoxicology Conference; Little Rock, AR; 1992.
56. Invited Symposium Organizer, "Cocaine and Developmental Neurotoxicology" at the Eleventh International Neurotoxicology Conference; Little Rock, AR; 1993.
57. Invited Section Editor for the Developmental Neurotoxicology Section of the *Principles of Neurotoxicology*, Vol. I. (L. Chang, ed.), Marcel Dekker, Inc.; 1994.
58. Invited lecturer in the American Chemical Society Short Course on Chemical Mechanisms in Toxicology, "Mechanisms of Neurotoxicity;" Washington, DC; 1993.
59. Invited lecturer in the American Chemical Society Short Course on Pharmacokinetics and Risk Assessment, "Risk Assessment for Neurological Effects;" Washington, DC; 1994.
60. Invited symposium organizer, "Developmental Pharmacology and Toxicology of Anti-HIV Therapeutic Agents," at the American Society for Pharmacology and Experimental Therapeutics; Anaheim, CA; 1994.
61. Co-organizer for the Twelfth International Neurotoxicology Conference on "Neurotoxicity of Mercury: Indicators and Effects of Low-Level Exposure" and Chair for "Risk Assessment: Issues and Recommendations" in Hot Springs, AR; 1994.
62. Invited book chapter on "Placental Metabolism and Transfer: Role in Developmental Toxicology," *Developmental Toxicology*, 2nd edition (eds., C.A. Kimmel and J. Buelke-Sam) Raven Press, 1994.
63. Co-organizer for the Second International Conference on Neuroprotective Agents and presenter of "Risk Assessment Strategies for Neuroprotective Agents" in Lake George, NY; 1994.
64. Invited lecturer in the American Chemical Society Short Course on Pharmacokinetics and Risk Assessment, "Risk Assessment for Neurological Effects," in Washington, DC; 1995.
65. Invited lecturer in the American Chemical Society Short Course on Chemical Mechanisms in Toxicology, "Mechanisms of Neurotoxicity," Atlanta, GA; 1995.
66. Invited Co-editor of the book *Neurotoxicology: Approaches and Methods*, Academic Press, 1995.
67. Symposium organizer for "Biologically-Based, Quantitative Risk Assessment of Neurotoxicants" and presenter of "Quantitation Risk Assessment of Neurotoxicants with the use of Continuous Data" at the Society of Toxicology Annual Meeting; Baltimore, MD; 1995.

68. Co-organizer for the symposium "Neurotoxicology of Metals in Developing Brain," Experimental Biology '95; Atlanta, GA; 1995.
69. Invited organizer and chair for the Society of Toxicology Symposium "Biologically-Based, Quantitative Risk Assessment of Neurotoxicants;" Baltimore, MD; 1995.
70. Invited panel member in the scientific review of the Environmental Health Sciences Center, University of Rochester; Rochester, NY; 1996.
71. Invited lecture, "Risk Assessment for Neurological Effects," American Chemical Society Short Course; Washington, DC; 1996.
72. Invited presentation and discussant at the FDA/NIMH Mini-Symposium; Washington, DC; March 1996.
73. Invited platform presentation, "The 3 Rs - Where are We? Updates on Alternatives," Edgewood Arsenal, Aberdeen, MD; 1996.
74. Invited presentation, "Neurotoxicology," ORISE/NCTR Summer Student Program, NCTR; Jefferson, AR; 1996.
75. Invited presentation at the Toxicology Forum, "Neurotoxicology-Risk Assessment: FDA Position," Given Biomedical Institute; Aspen, CO; 1996.
76. Co-organizer/presenter "Strategies for Safety Assessment of Neuroprotective Agents" at Third International Conference on Neuroprotective Agents; Varenna, Italy; 1996.
77. Invited platform presentation, "The Influence of Variability on a Quantitative Risk Assessment Procedure for Continuous Neurotoxicity Data," Society of Risk Analysis Annual Meeting; New Orleans, LA; 1996.
78. Invited presentation, "Mechanisms of Neurotoxicity," First International Workshop on Basic Mechanisms in Toxicology and Their Application to Risk Assessment; San Paulo, Brazil; 1997.
79. Co-chair of the Workshop, "Neurotrophic Factors," Society of Toxicology; Cincinnati, OH; 1997.
80. Invited lecture, "Mechanisms of Neurotoxicity," Chemical Mechanisms in Toxicology Meeting/American Chemical Society Short Course; Washington, DC; 1997.
81. Invited presentation, "Developmental Neurotoxicity of Inhaled Methanol: A Quantitative, Dose-Response Risk Assessment Model," International Conference on Volatile Organic Compounds in the Environment, Risk Assessment and Neurotoxicity; Pavia, Italy; 1997.
82. Invited presentation "Domoic Acid Induced Neurotoxicity: What is the Risk?" at Duke University Integrated Toxicology Program's Symposium, Environmental Toxicology of Marine Pathogens, Duke University; Chapel Hill, NC; 1997.

83. Invited book chapter on "The Developing Nervous System" for *Comprehensive Toxicology: Volume 11, Nervous System and Behavioral Toxicity*, (eds., K. Reuhl and H. Lowndes), Elsevier Science LTD.; 1997.
84. Invited book chapter on "Risk Assessment of Occupational Neurotoxicants" for *Occupational Neurotoxicology*, (eds., Manzo and Costa), CRC Press, Inc.; 1998.
85. Invited presentation, "Mechanisms of Neurotoxicity," University of Texas Medical Branch at Galveston, TX; 1998.
86. Invited workshop presentation, "Recent approaches to Measuring Target-Tissue Concentrations in Neurotoxicological Studies," Society of Toxicology Annual Meeting; Seattle, WA; 1998.
87. Invited session co-chair and presentation, "Biologically-based Dose-Response Model for Neurotoxicity Risk Assessment," VIII International Congress of Toxicology; Paris, France; 1998.
88. Invited presentation, "Current and Future Approaches to Neurotoxicity Risk Assessment," International Life Sciences Institute Annual Meeting; St. Petersburg, FL; 1998.
89. Invited lecture, "Pharmacokinetics and Risk Assessment," American Chemical Society Short Course; Boston, MA; 1998.
90. Co-organizer for the "Fourth International Conference on Neuroprotective Agents;" Annapolis, MD; 1998.
91. Invited presentation, "Neurotoxicology: The Multidisciplinary Field of the Future," Arkansas Chapter of the Society for Neuroscience, NCTR; Jefferson, AR; 1998.
92. Invited seminar, "Mechanism's of Neurotoxicity," University of Michigan School of Public Health; Ann Arbor, MI; 1999.
93. Invited lecture, "Chemical Mechanisms in Toxicology," American Chemical Society Short Course; San Francisco, CA; 1999.
94. Invited seminar, "Mechanism's of Neurotoxicity," Johns Hopkins University; Baltimore, MD; 1999.
95. Invited judge at the International Science and Engineering Fair; Philadelphia, PA; 1999.
96. Co-chair for the Teratology Society Meeting Symposium, "HIV Infection during Pregnancy," and presenter of "Potential Toxicities of HIV Therapeutics in the Developing Infant," Keystone, CO; 1999.
97. Invited lecture, "Mechanism's of Neurotoxicity," American Chemical Society Short Course, Chemical Mechanisms in Toxicology; New Orleans, LA; 1999.
98. Invited review of "MDMA" for *2nd Edition, Experimental and Clinical Neurotoxicology*, (eds., Spencer, Schaumburg and Ludolph), Williams and Wilkins, 2000.



99. Invited co-chair and organizer of 14<sup>th</sup> Rochester Trophoblast Conference Workshop Session I: "Perinatal Infections: HIV and Co-Infections in the Placenta and Therapeutic Interventions;" Rochester, NY; 2000.
100. Invited symposium speaker "Gender- Based Differences in a Multigeneration Study of Genistein in Rats" for the American College of Toxicology Annual Meeting; San Diego, CA; 2000.
101. Invited co-chair of the Alternative Toxicological Methods for the New Millennium: Science and Application Conference Symposium, "Neurotoxicology (Molecular Biomarkers, Transgenics and Imaging Technologies);" Washington, DC; 2000.
102. Invited presentation, "Risk Assessment for Neurotoxicants from Food and Drugs," Congress of the Collegium Internationale Neuro-Psychopharmacologicum; Brussels, Belgium; July 2000.
103. Invited presentation, "Mechanisms of Neurotoxicity," University of Oklahoma, November 2001.
104. Invited presentation, "Discontinuous Dose-Response curves: Mechanistic Explanations and Risk Assessment Impact," National Capital Area Chapter of the Society of Toxicology; Washington, DC; May 2002.
105. Invited presentation, "Pharmacokinetic/Pharmacodynamic enzymes and receptors: What's known in pediatrics (infancy, childhood and adolescents), and adults: an overview" at the FDA Science Forum; February 2002.
106. Invited presentation, "Placental Transfer of Glucocorticoids: Not All Glucocorticoids are Created Equal," International Federation of Placenta Association's 8<sup>th</sup> Meeting; Melbourne, Australia; October 2002.
107. Invited presentation "Mechanisms of Neurotoxicity" at the University of Auckland; Auckland, New Zealand; October 2002.
108. Invited seminar speaker "Mechanisms of Neurotoxicity and Opportunities for Neuroprotection" at the Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences; Little Rock, AR; November 2002.
109. Invited presentation "Neuroimaging as a New Approach to Neurotoxicology" at the 20<sup>th</sup> Annual International Neurotoxicology Conference; Little Rock, AR; November 2002.
110. Invited Co-organizer and presenter, Symposium on Childhood Obesity: Origins in Pregnancy and Impact on Children's Health, Teratology Meeting; Philadelphia, PA; June 2003.
111. Invited presenter of Sunrise Mini-course, "The Placenta and Developmental Toxicity/Teratogenicity," at the Teratology Meeting; Philadelphia, PA; June 2003.
112. Invited Co-chair, "Molecular Mechanisms of Oxidative Injury," Society of Toxicology Annual Meeting; Salt Lake City, UT; March 2003.

113. Invited lecture, "Mechanisms of Neurotoxicity," American Chemical Society Meeting; Philadelphia, PA; November 6-7, 2003.
114. Invited presentation, "Safety Assessment Approaches for Application during the Perinatal Development," Center for Drug Evaluation and Research; Washington, DC; December 3, 2003.
115. Invited presentation "Neurotoxicity: Impact on Children's Health and Assessment Approaches" at the Society for Risk Analysis 23<sup>rd</sup> Annual Meeting; Baltimore, MD; December 7-10, 2003.
116. Invited presentation "The Fetal Programming Hypothesis: Possible Role in Childhood Obesity" at the 21<sup>st</sup> International Neurotoxicology Conference; Honolulu, Hawaii; February 10-14, 2004.
117. Invited presentation "Biomarkers for Neurodevelopmental Toxicity" at the International Conference on Biomarkers for Toxicology and Molecular Epidemiology: New Tools for 21<sup>st</sup> Century Problems; Atlanta, GA; March 15-17, 2004.
118. Invited presentation "Basic Neurotoxicology Overview: From Genes to Cognition" at the Society of Toxicology Annual Meeting, Continuing Education Course; Baltimore, MD; March 20-25, 2004.
119. Invited presentation "Neuroimaging as a New Approach to Preclinical Neurotoxicology and Neuropharmacology" at the American Society for Pharmacology and Experimental Therapeutics; Washington, DC; April 2004.
120. Invited presentation "NeuroImaging: New Approaches for Drug Discovery and Safety Assessment (PET/MRI)" at the Sixth Annual International Conference on Drug Metabolism/Applied Pharmacokinetics; University of Wisconsin-Madison, School of Pharmacy; Madison, WI; Sept 13-17, 2004.
121. Invited presentation "Neuroimaging: New Approaches for Neurotoxicology" at the FDA Science Forum; Washington, DC; May 18-19, 2004.
122. Invited presentation "Defining Long-term Biological Research Needs on Obesity for FDA's Regulatory Mission" as the Introductory Presentation: FDA Research Activities Related to Obesity at the FDA Science Forum; Washington, DC; May 18-19, 2004.
123. Invited lecturer "Developmental Neurotoxicology: Approached for Risk Assessment" at the Henry Stewart Annual "Latest Thinking of Reproductive, Developmental and Endocrine Toxicity Studies" Conference; Washington, DC; June 16-17, 2004.
124. Invited speaker "Metabolism and Drug Transporters in the Placenta" at the Teratology Society's 44<sup>th</sup> Annual Meeting; Vancouver, British Columbia, Canada; June 26-July 1, 2004.
125. Invited presentation "Functional Imaging" at the Safety Pharmacology Society's 4<sup>th</sup> Annual Meeting; Covington, KY; September 27-29, 2004.

126. Invited presentation at NIH Workshop – National Institute of Child Health and Human Development, “Extrapolation of Non-clinical Models of Pediatric Clinical Studies: Setting the Research Agenda, Neurology: Rodent and Primate Models of Neurotoxicity;” Rockville, MD; October 28, 2004.
127. Invited presentation “Developmental Neurotoxicity: Assessment Approaches Based on Gene Expression” at the 32<sup>nd</sup> Conference of the European Teratology Society; Thessaloniki, Greece; September 19-22, 2004.
128. Invited presentation “Expectations of CNS Safety Pharmacology Screening” in the Pharmaceutic Educational Associates course “CNS Safety Pharmacology: Approaching a Universal Standard for the Assessment of Neurobehavioral Effects in Drug Development;” Washington, DC; April 11-12, 2005.
129. Invited presentation "Developmental Effects of Anesthetic Agents: A Systems Biology Approach" at Duke University; Durham, NC; January 28, 2005.
130. Invited presentation “Understanding the Role of Polymorphisms and Gene Expression in Drug Addiction: A Systems Biology Approach” at the NIEHS/NIAAA/NIH meeting “Chemical Intolerance and Addiction: A Shared Etiology?” – Research Triangle Park, NC; September 19-20, 2005.
131. Invited presentation, “Developmental Neurotoxicity of Anesthetic Agents: Application of a Systems Biology Approach” and Recipient of the Dr. Zaffarano Toxicology Lecture Speaker Award; Iowa State; Toxicology Seminar; 2005.
132. Invited presentation “PBPK/PD Models for Developmental Neurotoxicology: Risk Assessment Strategies and Research Recommendation” at the International Neurotoxicology Conference; Research Triangle Park, NC; September 11-14, 2005.
133. Invited Presentation “Survey of Guidance on Pediatric Safety Evaluation: From Preclinical Models to Bedside” at the North American International Society for the Study of Xenobiotics/Japanese Society for the Study of Xenobiotics (ISSX/JSSX); Maui, Hawaii; October 23-27, 2005.
134. Invited presentation “Goals and Progress toward Personalized Medicine and Nutrition” at the Dean’s Research Forum; University of Arkansas for Medical Sciences; Little Rock, AR; January 24, 2006.
135. Invited presentation “Mechanisms of Neurotoxicity” at the American Chemical Society Meeting, San Francisco, CA; May 5, 2006.
136. Invited presentation “Anesthetic Agents: Risk of Exposure during Development” at the University of Michigan Annual Toxicology Symposium; Ann Arbor, MI; March 23-24, 2006.
137. Invited presentation “Effect Transitions in Dose Response/Low Dose Extrapolation” at the Toxicology & Risk Assessment Conference; Cincinnati, OH; April 25, 2006.
138. Invited presentation, “A Systems Biology Approach to Developmental Neurotoxicology: Anesthetic Effects in the Rodent and Nonhuman Primate,” Predictive Models for Drug Safety Assessment, National Institutes of Health; Bethesda, MD; August 15-16, 2006.

139. Invited presentation "Anesthetic-induced Neurodegeneration during Development" at the 34<sup>th</sup> Annual Society for Neurosurgery Anesthesia & Critical Care; Chicago, IL; October 13, 2006.
140. Invited presentation "Assessment of anesthetics in animal models during development" at the NIH Conference/PPRU Network Steering Committee; Dallas, TX; October 19, 2006.
141. Invited seminar "A Systems Biology Approach to Developmental Neurotoxicology: Anesthetic Effects in the Rodent and Nonhuman Primate" at Howard University College of Medicine; Washington, DC; November 15, 2006.
142. Invited presentation "A Systems Biology Approach to Developmental Neurotoxicology: Anesthetic Effects in the Rodent and Nonhuman Primate" at the International Conference on Food Contaminants and Neurodevelopmental Disorders; Valencia, Spain and Hannover, Germany; December 1-9, 2006.
143. Invited presentation "Opening Remarks and Overview: Accomplishments of MCBIOS" and also served as Session Chair of Bioinformatics I at the MidSouth Computational Biology and Bioinformatics Society (MCBIOS) Meeting; New Orleans, LA; February 1-4, 2007.
144. Invited presentation "Pathways to Personalized Medicine" at Uppsala University; Uppsala, Sweden; March 12, 2007.
145. Invited keynote lecture "Protective Approaches against Anesthetic-induced Neurodegeneration during Development" at the Fourth Annual Meeting of the Global College of Neuroprotection & Neuroregeneration; Garmisch-Partenkirchen, Germany; March 14-16, 2007.
146. Invited symposium presentation "Disruption of brain cell replication and neurotransmitter systems during development leading to cognitive dysfunction: Developmental neurotoxicity of nicotine" at the 46<sup>th</sup> Annual Meeting Society of Toxicology; Charlotte, NC; March 23-28, 2007.
147. Invited presentation "Ketamine Effects on the Developing Nervous System" at the FDA Anesthetic and Life Support Drugs Advisory Committee Meeting; Rockville, MD; March 29, 2007.
148. Invited presentation "Anesthetic Induced Neurodegeneration during Development" at Brigham and Women's Hospital/Harvard Medical School (Grand Rounds); Boston, MA; April 3, 2007.
149. Keynote Address "The Role of the National Center for Toxicological Research (NCTR) within the Regulatory Environment" presented to the Southwestern Association of Toxicologists; Little Rock, AR; April 20, 2007.
150. Invited presentation "The Role of the National Center for Toxicological Research (NCTR) within the Regulatory Environment" at the 2007 Toxicology and Risk Assessment Conference (TRAC); Cincinnati, OH; April 23-24, 2007.
151. Invited presentation "Mechanisms of Neurotoxicity" at the American Chemical Society Mechanisms of Toxicology Course; San Francisco, CA; May 4, 2007.

152. Invited symposium presentation "Brain cell death induced by a combination of inhalation anesthetics in the developing rat and protection from this effect by L-Carnitine" at the 47<sup>th</sup> Annual Meeting of the Teratology Society; Pittsburgh, PA; June 23-29, 2007.
153. Invited symposium organization and presentation "Developmental Stage and Duration of Anesthesia: Impact on Anesthetic-Induced Neurotoxicity in the Developing Monkey" at the Toxicology Forum; Aspen, CO; July 8-12, 2007.
154. Invited keynote address at the 1<sup>st</sup> International Conference on Toxicogenomics Integrated with Environmental Sciences (TIES); Raleigh, NC; October 25, 2007.
155. Invited presentation, "The Use of Nonhuman Primates in Toxicology," CDER, Education Committee of the PTCC; FDA White Oak Facility; Silver Spring, MD; October 31, 2007.
156. Invited presentation at the 2008 International Anesthesia Research Society Annual Clinical and Scientific Meeting; San Francisco, CA; May 1-2, 2008.
157. Invited presentation and Chair, "Nutrition and Food Safety: Pre-Conception to Adolescence Symposium; The Teratology Society Annual Meeting; Monterey, CA; June 29-July 2, 2008.
158. Invited presentation at the 2008 Summer Tox Forum; Aspen, CO; July 6-10, 2008.
159. Invited presentation at the 2008 Aspen Cancer Conference; Aspen, CO; July 20-22, 2008.
160. Invited seminar at Duke University; Durham, NC; September 5, 2008.
161. Invited presentation at the 9<sup>th</sup> International Neuroprotective Conference; Woods Hole, MA; September 7-11, 2008.
162. Invited presentation at the FDA/DIA Critical Path Initiative Workshop; Bethesda, MD; September 15-16, 2008.
163. Invited keynote address, South Central Chapter Society of Toxicology; Little Rock and Jefferson, AR; September 18-19, 2008.
164. Invited presentation at the 29<sup>th</sup> Annual Meeting of the American College of Toxicology; Tucson, AZ; November 9-12, 2008.
165. Invited presentation at the 2008 Neuroscience Conference; Washington, DC; November 15-17, 2008.
166. Requested by Dr. Janet Larkin, NIH, to serve as Chair for the NIH Center for Scientific Review, Special Emphasis Panel, for scientific review of applications submitted to the Center for Scientific Review, NIH; December 8, 2008.
167. Presentation to the 2<sup>nd</sup> Inter-Agency Computational Toxicology Colloquium; Jefferson, AR; December 10-11, 2008.
168. Invited member of the Government Liaison Group for the NAS Standing Committee on Use of Emerging Science for Environmental Health Decisions; Washington, DC; 2009-present.

169. Invited to serve on the Uniformed Services University Center for Neuroscience and Regenerative Medicines Technical Review Panel; Bethesda, MD; April 17, 2009.
170. Invited to serve on the WHO DDT Draft Hazard Assessment Document Review; Geneva, Switzerland; June 1-5, 2009.
171. Invited Speaker at the Symposium on Metabolism of Food and Drugs by Intestinal Microflora; Seoul, Korea; October 19-22-2009.
172. Invited Speaker at the Argentina Society of Pharmacology; Rosario, Argentina; November 22-26, 2009.
173. Invited presentation at the Contemporary Concepts in Toxicology Workshop, "PPTOXII: Role of Environmental Stressors in the Developmental Origins of Disease;" Miami Beach, FL; December 7-10, 2009.
174. Invited speaker at the 7<sup>th</sup> Global College of Neuroprotection and Neuroregeneration Conference; Uppsala, Sweden; February 28-March 3, 2010.
175. Plenary speaker at the International Anesthesia Research Society/SAFEKIDS Conference; Honolulu, Hawaii; March 20-23, 2010.
176. Keynote speaker at the First Bio-X International Translational Medicine Symposium; Shanghai, China; May 20-25, 2010.
177. Invited Speaker at the Second International Workshop on Anesthetic Neurotoxicity and Mechanisms of Anesthesia Conference; Toronto, Canada; June 14-16, 2010.
178. IUTOX 2010 Congress: XII International Congress of Toxicology; Barcelona, Spain; July 19-23, 2010.
179. Invited speaker at the 60<sup>th</sup> Anniversary Celebration of the Chinese FDA and a joint workshop of the Chinese National Center for Safety Evaluation of Drugs, NICPBP and the International Life Sciences Institute (ILSI)/Health and Environmental Sciences Institute (HESI); Beijing, China; September 25-27, 2010.
180. Invited speaker at the Northern California Society of Toxicology Regional Chapter; University of California at Berkeley; Berkeley, CA; April 13, 2011.
181. Invited speaker at the 30<sup>th</sup> Anniversary MASOT; Rutgers University, New Jersey; May 19, 2011.
182. Invited presentation on Regulatory Science at the Institute of Pharmacology and Toxicology, Université Paris Descartes, September 1-2, 2011.
183. Invited speaker, Fifty for the Future, Little Rock Chamber of Commerce; Little Rock, AR; December 1, 2011.
184. Invited keynote seminar speaker at the 3<sup>rd</sup> Toxicogenomics Integrated with Environmental Sciences (TES) International Conference; University of North Carolina at Chapel Hill, North Carolina; September 15-16, 2011.

185. Invited speaker at the Annual Meeting of the MidSouth Computational Biology and Bioinformatics Society; Oxford, MS; February 17-18, 2012.
186. Plenary Talk and Session Chair; HESI/ILSI Workshop – In Vitro Gene Tox; Washington, D.C., April 24-25, 2012.
187. Welcome address to 2012 summer students at NCTR; Jefferson, AR; May 29, 2012.
188. Presentation to the Arkansas Economic Development Commission as part of their Technology Committee meeting; Little Rock, AR; June 7, 2012.
189. Plenary Speaker at the British Journal of Anaesthesia (BJA) Special Workshop on Anesthesia, Neurotoxicity and Neuroplasticity; Salzburg, Austria; June 14-15, 2012.
190. Keynote Lecture at the Ohio Valley Society of Toxicology Meeting; Columbus, OH; September 28, 2012.
191. Keynote speech at the SOT Contemporary Concepts in Toxicology – Future Tox: Building the Road for 21<sup>st</sup> Century Toxicology and Risk Assessment Practices; Arlington, VA; October 18-19, 2012.
192. Welcome address at the South Central Regional Chapter of the Society of Toxicology; Little Rock, AR; November 1-2, 2012.
193. Served as a panel member at the inaugural Health and Environmental Sciences Institute (HESI) Combining Interdisciplinary & Translational Expertise (CITE) workshop titled “Towards New Science for Public Health” held December 6-7, 2013, in Arlington, VA. This panel discussion focused on the incentives and hurdles in translating basic science innovations to public health applications. Presented the FDA Global Summits on Regulatory Science Research (GSRs11 and GSRs12) as an example of a successful approach to build a global coalition to aid in the translation of scientific research into enhanced public health outcomes.
194. 38<sup>th</sup> Annual Winter Meeting of the Toxicology Forum; Washington, DC; January 29-31, 2013. Chair of Session III: Non-Monotonic Dose Response: Exploration of Concept and Implications. Chair and Presentation in Session IV: Role of Academia in Providing Training in Regulatory Sciences.
195. Presentation: Capacity of NCTR to evaluate drugs to treat rare diseases; NIH/CDER Task Force Meeting; White Oak; Silver Spring, MD; February 26, 2013.
196. Remarks at the Risk Assessment Specialty Section Meeting – The Great Debate; 52<sup>nd</sup> Annual Meeting of the Society of Toxicology; San Antonio, TX; March 12, 2013.
197. Presentation at the MCBIOS X Meeting; Columbia, MO; April 5-6, 2013.
198. Presentation at the Center for Tobacco Products; Rockville, MD; May 30, 2013.
199. Participated in the Kick-off event of the new Emerging Analytics Center at the University of Arkansas at Little Rock as a member of the Data Science Advisory Board; Little Rock, AR; June 3, 2013.

200. Presentation at the 40<sup>th</sup> Annual Meeting of the Japanese Society of Toxicology; Japan; June 17-19, 2013.
201. Presentation at the Teratology Society Annual Meeting; Tucson, AZ; June 22-26, 2013.
202. Presentation at the XIII International Congress of Toxicology; Coex, Seoul, Korea; June 30-July 3, 2013.
203. Presentation at the Annual Summer Tox Forum; Aspen, CO; July 8-9, 2013.
204. Opening comments at the annual NCTR Women's Health Research Day; Jefferson, AR; August 16, 2013.
205. Presentation at the Board Meeting of the Arkansas Research Alliance; Little Rock, AR; August 29, 2013.
206. Presentation to the Boston Area Pharmacological Tox. Group; Cambridge, MA; October 25, 2013.
207. Introduced the keynote speaker at the 2014 Black History Seminar at NCTR; Jefferson, AR; February 20, 2014.
208. Presentation at the IANR VII and 1<sup>st</sup> SCSi with 11<sup>th</sup> GCNN & 2<sup>nd</sup> IFNR Conference; Mumbai, India; February 27-March 1, 2014.
209. Invited Keynote Speaker at the 39<sup>th</sup> Annual Summer Meeting of the Toxicology Forum; Aspen, CO; July 7-9, 2014.
210. Invited Keynote Speaker at the International Society of Cellular Therapy (ISCT), Buenos Aires, Argentina; September 25-26, 2014.
211. Invited Speaker/Lecturer (Joseh Warkany Lecturer Award) at the 55<sup>th</sup> Annual Meeting of the Teratology Society, Montreal, Québec, June 27-July 2, 2015.
212. Invited Workshop Chair at the European Food Safety Authority's 2<sup>nd</sup> Conference - Shaping the Future of Food Safety Together, Milan, Italy, October 14-16, 2015.
213. Invited Keynote Speaker at the 7<sup>th</sup> National Congress of Toxicology (VII-China Society of Toxicology (CSOT), Wuhan, China, October 25-28, 2015.
214. Invited Speaker at the 40<sup>th</sup> Annual Winter Meeting of the Toxicology Forum, Washington, DC, February 8-10, 2016.
215. Invited Speaker at MCBIOS XIII, Memphis, Tennessee, March 3-5, 2016.
216. Invited Speaker at the Society of Toxicology 55<sup>th</sup> Annual Meeting and ToxExpo, New Orleans, Louisiana, March 13-17, 2016.
217. Presentation at the British Journal Academy (BJA) Anesthetic and Neuroplasticity Conference, London, England, May 25-27, 2016.



- 218. Invited Speaker at the 42<sup>nd</sup> Annual Summer Meeting of the Toxicology Forum, Salt Lake City, Utah, July 24-27, 2016.
- 219. Co-Organizer and Presentation at the 13<sup>th</sup> International Conference on Neuroprotective Agents (ICNA), Bizkaia, Spain, September 18-21, 2016.
- 220. Invited Speaker at the Environmental Mutagenesis and Genomics Society Annual Meeting, Kansas City, Missouri, September 24-28, 2016.
- 221. Invited Speaker at the VCR Distinguished Lecture Series, The University of Tennessee Health Science Center, Memphis, Tennessee, October 20, 2016.

**Participation in National Scientific Meetings, Technical Conferences, Workshops, Seminars**

- 1975 Attended and presented a platform presentation at the American Society of Pharmacology and Experimental Therapeutics (ASPET); Davis, CA, National Scientific Meeting. Presentation: "Characterization of EEG effects produced by the interaction of secobarbital with psychomotor stimulants using spectral analysis techniques."
- 1976 Attended and presented a platform presentation at the Proceedings Western Pharmacological Society, Regional Scientific Meeting; San Francisco, CA. Presentation: "Comparisons of the effects following acute and chronic administration of lithium chloride in *Macaca mulatta*."
- 1976 Attended and presented a poster at the FASEB, National Scientific Meeting; Anaheim, CA. Presentation: "Responses of normal and isolate monkeys to d-amphetamine, cocaine, chlorpromazine and diazepam."
- 1977 Attended and presented a poster at the Society for Neuroscience National Scientific Meeting; Anaheim, CA. Presentation: "Discriminative effects of cocaine in the rhesus monkey."
- 1978 Attended and presented a platform presentation at the ASPET National Scientific Meeting; Houston, TX. Presentation: "Comparison of the transplacental pharmacokinetics of diethylstilbestrol (DES), diethylstilbestrol monoglucuronide (DESG) and estradiol-17B (E2) in the rhesus monkey".
- 1979 Attended and presented a poster at the Society of Toxicology National Scientific Meeting; New Orleans, LA. Presentation: "Application of high pressure liquid chromatography (HPLC) to characterize diethylstilbestrol (DES) metabolites in the *Macaca mulatta*."
- 1979 Attended and presented a poster at the Endocrine Society, Anaheim, CA; National Scientific Meeting. Presentation: "Comparison of the placental transfer of some synthetic and natural estrogens in subhuman primates."
- 1980 Attended and presented a poster at the Gordon Research Conference; Holderness, NH. Presentation: "Drug Metabolism Cholestatic Activity of the 17-glucuronide of estradiol-17B in the rat."
- 1980 Attended and presented a poster at the Society of Teratology; Portsmouth, NH. Presentation: "Distribution and metabolism of triamcinolone acetonide (TAC) and cortisol (C) in the rhesus monkey fetomaternal unit."

- 1980 Attended and presented a platform presentation at the ASPET Meeting; Rochester, MI. Presentation: "Transplacental pharmacokinetic comparison of diethylstilbestrol (DES) and estradiol-17B (E2) in the rhesus monkey."
- 1981 Attended and presented a poster at the Society of Teratology; Palo Alto, CA. Presentation: "Two dose comparison of the transplacental pharmacokinetics of triamcinolone acetonide (TAC) and cortisol (C) in the rhesus monkey."
- 1981 Attended and presented a platform presentation at the ASPET Meeting; Calgary, Canada. Presentation: "Ethanol elimination in the rhesus monkey: Comparison of mother, fetus and neonate."
- 1982 Attended and presented a paper at the Stowe School Symposium on Drug Metabolism; Buckingham, England. Presentation: "The metabolism of 17a-ethynylestradiol-17B in the nonhuman primate."
- 1982 Attended and presented a poster at the Gordon Research Conference, Drug Metabolism; Holderness, NH. Presentation: "Transplacental pharmacokinetics and metabolism of 17a-ethynylestradiol-17b and estradiol in the rhesus monkey."
- 1983 Attended and presented a poster at the Transactions of the American Society for Neurochemistry; Honolulu, HI. Presentation: "Neurotransmitter ontogeny in the rat: effects of prenatal methylmercury."
- 1983 Attended and presented a platform presentation at the Teratology Society, Atlantic City, NJ. Presentation: "Pharmacokinetics of doxylamine (Bendectin(r)) in the rhesus monkey."
- 1984 Attended and presented a platform presentation at the Teratology Society; Boca Raton, FL. Presentation: "Metabolic pathways of <sup>14</sup>C-doxylamine succinate (Bendectin(r)) in the rhesus monkey."
- 1984 Attended and presented a poster at the FASEB; St. Louis, MO. Presentation: "Regional neurochemical alterations produced by Trimethyltin (TMT) in the mouse."
- 1984 Attended and presented a platform presentation at the Society of Toxicology, Atlanta, GA. Presentation: "Metabolism of <sup>14</sup>C labeled doxylamine succinate (Bendectin®) in the rhesus monkey."
- 1984 Attended and presented a poster at the International Society for the Study of Xenobiotics, Palm Beach, FL. Presentation: "Changes in estrogen metabolism after chronic oral contraceptive (OC) administration in the rhesus monkey."
- 1985 Attended and presented a poster at the Teratology Society; Calloway Gardens, GA. Presentation: "Transplacental pharmacokinetics of doxylamine succinate in the late-term rhesus monkey."
- 1985 Attended and presented a platform presentation at the American Society for Pharmacology and Experimental Therapeutics; Boston, MA. Presentation: "Evidence for the dose-dependent elimination of doxylamine succinate in the monkey and rat."

- 1985 Attended and presented a platform presentation at the European Teratology Society; Rostock, East Germany. Presentation: "The correlation of early postnatal behavioral and neurochemical alterations in rats prenatally exposed to reserpine."
- 1985 Attended and presented a poster at the 10th Rochester Trophoblast Conference; Rochester, NY. Presentation: "Transplacental metabolism of dexamethasone and cortisol in the late gestational age rhesus monkey (*Macaca mulatta*)."
- 1986 Attended and presented a platform presentation at the American Pharmaceutical Association Annual Meeting; San Francisco, CA. Presentation: "Transplacental pharmacokinetics and metabolism of drugs and endogenous hormones."
- 1986 Attended and presented a platform presentation at the Teratology Society; Boston, MA. Presentation: "Inhibition of the conversion of estradiol (E<sub>2</sub>) to estrone (E<sub>1</sub>) by 16-methylene E<sub>2</sub> in the perfused monkey placenta."
- 1987 Attended and presented a platform presentation at the Society of Neuroscience; Washington, DC. Presentation: "Methylenedioxymethamphetamine (MDMA) produces long lasting alterations in the serotonergic system of rat brain."
- 1987 Attended and presented a paper at the American Society for Pharmacology and Experimental Therapeutics; Honolulu, HI. Presentation: "Neurochemical and neurohistological alterations produced by orally administered methylenedioxymethamphetamine (MDMA)."
- 1987 Attended and presented a platform presentation at the Marijuana Symposium; Melbourne, Australia. Presentation: "Placental transfer and fetal disposition of delta-9-tetrahydrocannabinol (THC) during late pregnancy in the rhesus monkey."
- 1987 Attended and presented a platform presentation at the Tenth International Congress of Pharmacology; Sydney, Australia. Presentation: "Enhancement of the potency of estradiol (E<sub>2</sub>) by the 17B-hydroxysteroid dehydrogenase (17HSD) inhibitor, 16-methylene E<sub>2</sub> (ME<sub>2</sub>), *in vivo*."
- 1987 Attended and presented a platform presentation at the Marijuana Symposium; Melbourne, Australia. Presentation: "Effect of chronic delta-9-tetrahydrocannabinol on pyramidal neuron size and synaptic density in rat hippocampus."
- 1988 Attended and presented a poster at the Society of Toxicology; Dallas, TX. Presentation: "Persistent reduction of brain serotonin (5-HT) by MDMA in the rhesus monkey."
- 1988 Attended and presented a platform presentation at the Society for Neuroscience; Toronto, Canada. Presentation: "Assessment of complex behavior in the rhesus monkey: Effects of chronic marijuana smoke exposure."
- 1988 Attended and chaired a session on Methods of Evaluating Toxicity at the Fourth Conference on Current Concerns on Toxicity and Waste Management; Millbrae, CA. Presentation: "Risk assessment of potential neurotoxicants: Are the current methods adequate?"

- 1988 Attended and co-chaired a session at the Sixth International Neurotoxicology Conference, Drug Abuse and Brain Development; North Little Rock, AR. Presentation: "Neurochemical and behavioral effects of orally administered MDMA: Comparison of the rodent and nonhuman primate."
- 1988 Attended and presented at Grosser Horsaal, Universitats Frauenklinik und, Kantonales Frauenspital Bern, Switzerland. Presentation: "Placental metabolism of steroids in the human and nonhuman primate."
- 1989 Attended and presented at the American Medical Society on Alcoholism and Other Drug Dependencies Meeting; Atlanta, GA. Presentation: "Chronic marijuana smoke exposure in rhesus monkeys: Behavioral and neuropathological effects."
- 1989 Attended and presented at the Behavioral Teratology Society Symposium of the Behavioral Teratology Meetings. Presentation: "Placental transfer of psychoactive agents in the nonhuman primate."
- 1990 Attended and presented a poster presentation at the Teratology Society Meeting; Victoria, BC, Canada. Presentation: "Disposition and metabolism of chronically administered retinol in the monkey."
- 1990 Attended and presented a review session on "Research on placenta-drug interactions" at the Role of Placenta in HIV Infection and Treatment Meeting; Nantucket, MA.
- 1990 Co-organizer, Annual Meeting of the South Central Chapter of the Society of Toxicology; NCTR; Jefferson, AR.
- 1991 Co-organizer of the "International Conference on Neuroprotective Agents: Experimental and Clinical Findings;" Rockland, ME.
- 1992 Workshop Co-organizer, Teratology Society; "Toxicokinetic Studies of Pregnant Animals in Safety Evaluation;" Boca Raton, FL.
- 1992 Workshop Co-organizer, 12th Rochester Trophoblast Conference, "Anti-HIV Therapy and the Placenta;" Rochester, NY.
- 1993 Participated in the Workshop on "Benchmark Dose Methodology" sponsored by EPA and Risk Science Institute.
- 1994 Session Co-chair for "Risk Assessment: Issues and Recommendations, Neurotoxicity of Mercury: Indicators and Effects of Low-Level Exposure," Twelfth International Neurotoxicology Conference; Hot Springs, AR.
- 1994 Co-organizer of the Second International Conference on Neuroprotective Agents; Lake George, NY.
- 1994 Attended and presented a poster at the FDA Science Forum on Regulatory Sciences; Washington, DC. Presentation: "Domoic acid neurotoxicity in cynomolgus monkeys: Effects of dose on hippocampal neuronal and terminal degeneration."

- 1994 Attended and presented a poster at the FDA Science Forum on Regulatory Sciences; Washington, DC. Presentation: "Domoic acid (DOM) pharmacokinetics in the monkey: correlation with neuropathological effects."
- 1995 Attended and presented a poster at the 1995 Annual Meeting of the Society of Toxicology; Baltimore, MD; "Quantitative risk assessment of neurotoxicants with the use of continuous data."
- 1995 Attended and presented a poster at the 1995 Annual Meeting of the Teratology Society; Newport Beach, CA; "Developmental effects of the mycotoxin, fumonisin B1 (FB1), in the rat nervous system."
- 1997 Attended and presented a poster at the Society of Neuroscience Annual Meeting, "High dose, short-course treatment with methylenedioxymethamphetamine (MDMA) but not dexfenfluramine (DFEN) alters subsequent behavioral sensitivity to both drugs in rhesus monkeys."
- 1997 Attended and presented a poster at the FDA Forum on Regulatory Sciences; Washington, DC; "Short-course, high dose, treatment with methylenedioxymethamphetamine (MDMA) but not dexfenfluramine (DFEN) alters subsequent behavioral sensitivity to both drugs in rhesus monkeys."
- 1999 Attended and presented at the 17th Annual International Neurotoxicology Conference; Little Rock, AR; "Developmental Neurotoxicology of Therapeutics: Survey of Novel Recent Findings."
- 2000 Co-chair of the International Conference on Neurotoxicity Session, "Hot Topics/Current Issues;" Colorado Springs, CO.
- 2001 Co-chair of the Society of Toxicology Innovations in Applied Toxicology Workshop, "Applications of Noninvasive Imaging in Toxicology;" San Francisco, CA.
- 2001 Attended and presented a poster at the 2001 Annual Meeting of the American Society of Pharmacology and Experimental Therapeutics, "Three-Dimensional Quantitative Structure-Activity Relationship (QSAR) of Organophosphorus Compounds;" Orlando, FL.
- 2002 Co-organizer, Sixth International Conference on Neuroprotective Agents; September 15-19, 2002; Hilton Head, SC.
- 2003 Attended and presented poster titled, "Dose Dependent Transitions in Mechanisms of Toxicity;" 2003 ILSI Annual Meeting; Miami, FL.
- 2003 Co-chair of workshop titled, "Dose-Dependent Transitions in Mechanisms of Toxicity;" ILSI; Washington, DC.
- 2003 Attended and presented at FDA 2003 Science Forum "Protecting America's Health, Assessment of Neurotoxicity: Application of Neuroimaging Techniques;" Washington, DC.
- 2004 Invited lecture, "Mechanisms of Neurotoxicity;" American Chemical Society Short Course; Chemical Mechanisms in Toxicology; San Francisco, CA.

- 2005 Co-organizer, Seventh International Conference on Neuroprotective Agents; November 14-19, 2004; Monterey, CA.
- 2005 Attended and presented poster at the 2005 Annual Meeting of the Society for Neuroscience; Washington, DC.
- 2006 Society of Toxicology Co-chair and presentation, "Obesity: Developmental Origins and Environmental Influences," SOT Annual Meeting; March 2006; San Diego, CA.
- 2006 Attended and presented poster at the 2006 Annual Teratology Meeting, "Protective Effect of Midazolam on Ketamine-Induced Neurotoxicity in Rat Forebrain Culture;" June 2006; Tucson, AZ.
- 2006 Co-organizer, International Conference on Neuroprotective Agents; September 14-20, 2006; Mackinac Island, MI.
- 2007 Attended 46<sup>th</sup> Annual Meeting of the Society of Toxicology; Presentation – "Disruption of Brain Cell Replication and Neurotransmitter Systems during Development Leading to Cognitive Dysfunction: Developmental Neurotoxicity of Nicotine;" March 25-29, 2007; Charlotte, NC.
- 2007 Attended and presented invited keynote lecture, "Protective Approaches against Anesthetic-induced Neurodegeneration during Development," at The Fourth Annual Meeting of the Global College of Neuroprotection & Neuroregeneration; March 14-16, 2007; Garmisch-Partenkirchen, Germany.
- 2007 Attended and presented invited symposium presentation, "Disruption of brain cell replication and neurotransmitter systems during development leading to cognitive dysfunction: Developmental neurotoxicity of nicotine;" 46<sup>th</sup> Annual Meeting Society of Toxicology; March 23-28, 2007; Charlotte, NC.
- 2007 Presented Keynote Address, "The Role of the National Center for Toxicological Research (NCTR) within the Regulatory Environment;" Southwestern Association of Toxicologists; April 20, 2007; Little Rock, AR.
- 2007 Invited presentation, "The Role of the National Center for Toxicological Research (NCTR) within the Regulatory Environment;" 2007 Toxicology and Risk Assessment Conference (TRAC); April 23-24, 2007; Cincinnati, OH.
- 2007 Invited presentation, "Mechanisms of Neurotoxicity;" American Chemical Society Mechanisms of Toxicology Course; May 4, 2007; San Francisco, CA.
- 2007 Invited symposium presentation, "Brain cell death induced by a combination of inhalation anesthetics in the developing rat and protection from this effect by L-Carnitine;" at the 47<sup>th</sup> Annual Meeting of the Teratology Society; June 23-29, 2007; Pittsburgh, PA.
- 2007 Invited symposium organization and presentation, "Developmental Stage and Duration of Anesthesia: Impact on Anesthetic-Induced Neurotoxicity in the Developing Monkey;" at The Toxicology Forum; July 8-12, 2007; Aspen, CO.

- 2007 Invited keynote address at the 1<sup>st</sup> International Conference on Toxicogenomics Integrated with Environmental Sciences (TIES); October 25, 2007; Raleigh, NC.
- 2008 Invited presentation at the 2008 International Anesthesia Research Society Annual Clinical and Scientific Meeting; May 1-2, 2008; San Francisco, CA.
- 2008 Invited presentation and Chair, "Nutrition and Food Safety: Pre-Conception to Adolescence Symposium;" at The Teratology Society Annual Meeting; June 29 – July 2, 2008; Monterey, CA.
- 2008 Invited presentation, 2008 Summer Tox Forum; July 6-10, 2008; Aspen, CO.
- 2008 Invited presentation, 2008 Aspen Cancer Conference; July 20-22, 2008; Aspen, CO.
- 2008 Invited presentation, 9<sup>th</sup> International Neuroprotective Conference; September 7-11, 2008; Woods Hole, MA.
- 2008 Invited presentation, FDA/DIA Critical Path Initiative Workshop; September 15-16, 2008; Bethesda, MD.
- 2008 Invited keynote address, South Central Chapter Society of Toxicology; September 18-19, 2008; Little Rock and Jefferson, AR.
- 2008 Co-Chair of the Workshop Session – Do Anesthetics Induce Neuroapoptosis in Humans; Basic and Translational Approaches? Presentation: Occurrence and Prevention of Anesthetic-induced Brain Cell Death during Development at the 25<sup>th</sup> International Neurotoxicology Conference; October 13-14, 2008; Rochester, NY.
- 2008 Presentation "Pharmacological Effects of Methylphenidate in the Developing Primate" at the Environmental Mutagen Society Annual Meeting; October 17-22, 2008; Puerto Rico.
- 2008 Invited presentation "Bio-imaging: New Approaches for Safety Assessment and Toxicology" at the 29<sup>th</sup> Annual Meeting of the American College of Toxicology; November 9-12, 2008; Tucson, AZ.
- 2008 Invited presentation, 2008 Neuroscience Conference; November 15-17, 2008; Washington, DC.
- 2009 Presentation, 2<sup>nd</sup> Inter-Agency Computational Toxicology Colloquium; December 10-11, 2008; Jefferson, AR.
- 2009 Presentation "Anesthetic-induced brain injury during development: Non-invasive assessments and strategies for prevention" at the Second Joint Congress of GCNN and SSNN: 6<sup>th</sup> Global Conference on Neuroprotection and Neuroregeneration (GCNN) – 5<sup>th</sup> Congress of the Society for the Study of Neuroprotection and Neuroplasticity (SSNN); March 1-4, 2009; Vienna, Austria.

- 2009 Presentations at the 48<sup>th</sup> Annual Meeting of the Society of Toxicology, March 13-19, 2009; Baltimore, MD.
- Co-chair of Symposia Session: Nitrate and Oxidative Stress in Toxicology and Disease
  - Co-chair of Workshop Session: Low-Dose Non-Linearity: What can Emerging Technologies Tell Us
  - Co-Chair of Informational Session: Novel Translational Safety Biomarkers and Safety First at the FDA
- 2010 Nutritional Phenotype Database Workshop; January 20, 2010; NCTR, Jefferson, AR.
- 2010 35<sup>th</sup> Annual Winter Tox Forum; February 1-4, 2010; Washington, DC.
- 2010 Chair of the Infrastructure Session at the MCBIOS Annual Conference; February 18-20, 2010; Arkansas State University; Jonesboro, AR.
- 2010 NAS Committee on Emerging Science for Environmental Health; February 25-26, 2010; Washington, DC.
- 2010 49<sup>th</sup> Annual Meeting of the Society of Toxicology; Speaker at the Meet the Director Session; March 5-11, 2010; Salt Lake City, UT.
- 2010 Introductory Presentation at the Arkansas Biosciences Institute/NCTR/FDA Joint Workshop on Stem Cells; April 13, 2010; Little Rock, AR
- 2010 Presentation at the Health and Environmental Sciences Institute (HESI) Annual Meeting; May 13, 2010; Reston, VA.
- 2010 Presentation at the 2<sup>nd</sup> International Workshop on Anesthesia Neurotoxicology; June 14-16, 2010; Toronto, Canada.
- 2010 Presentation and Chair, Bio-imaging Course at the 50<sup>th</sup> Annual Teratology Society Meeting; June 26-30, 2010; Louisville, KY.
- 2010 Welcome address at the NCTR Women's Health Research Workshop; September 2, 2010; Little Rock, AR.
- 2010 Presentation at the 10<sup>th</sup> International Conference on Neuroprotective Agents; September 19-22, 2010; Asilomar Conference Grounds; Pacific Grove, CA.
- 2010 Welcome address at the Hepatotoxicity Workshop; September 30, 2010; Little Rock, AR.
- 2010 Speaker at the CompTox V Colloquium; November 19, 2010; Atlanta, GA.
- 2010 Invited seminar speaker at the University of Arkansas for Medical Sciences; December 7, 2010; Little Rock, AR.
- 2010 NCTR Center-Specific Training Presentation to FDA Fellows; December 15, 2010; White Oak Facility; Silver Spring, MD.
- 2011 NCTR/Center for Biologics Evaluation and Research (CBER) Workshop; January 20, 2011; Jefferson, AR.



- 2011 NCTR/Center for Tobacco Products (CTP) Workshop; February 8-9, 2011; Jefferson and Little Rock, AR.
- 2011 50<sup>th</sup> Annual Meeting of the Society of Toxicology; March 5-10, 2011; Washington, DC.
- Vice President Elect
  - Co-Chair, Scientific Program Committee
  - Co-Chair, Issues Session: What It Means to be Global
  - Expert Panel Member, Association of Scientists of Indian Origin (ASIO)
- 2011 Invited speaker at the MidSouth Computational Biology and Bioinformatics Society (MCBIOS) 2011 Meeting; April 1-2, 2011; College Station, TX.
- 2011 Invited speaker at the Arkansas Nanomedicine and Health Meeting; April 8, 2011; Petit Jean, AR.
- 2011 51<sup>st</sup> Annual Meeting of the Teratology Society; Coronado, CA; June 25-29, 2011.
- 2011 Co-moderator of session on general anesthetics at the 3<sup>rd</sup> International Drug Abuse Research Society (IDARS) Meeting in Istanbul, Turkey; August 23-26, 2011.
- 2011 Invited Co-Chair, SOT/EUROTOX Debate Scientific Session, 47<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX); August 28-31, 2011; Paris, France
- 2011 Invited keynote address at the South Central & Gulf Coast Chapters of the Society of Toxicology (SCC-SOT) Joint Regional Meeting; New Orleans, LA; October 27-29, 2011.
- 2011 Invited seminar speaker; Battelle; Columbus, OH; December 6, 2011.
- 2012 Center for Tobacco Products/NCTR Workshop; Rockville, MD; January 10, 2012.
- 2012 Speaker at the NCTR-specific Lecture Series for the Commissioner's Fellows; White Oak Facility; Silver Spring, MD; February 7, 2012.
- 2012 Invited Session Chair, 9<sup>th</sup> Annual MidSouth Computational Biology and Bioinformatics Society Conference; University of Mississippi; Oxford, MS; February 17-18, 2012.
- 2012 NCTR Strategic Planning Meeting; Jefferson, AR; February 21-22, 2012.
- 2012 NIEHS BPA Grantee Meeting; Jefferson, AR; March 1, 2012.
- 2012 51<sup>st</sup> Annual Meeting of the Society of Toxicology; San Francisco, CA; March 11-15, 2012:
- Vice President
  - Symposium Co-Chair – Toxic Cell Death: Signaling Pathways, Cross-Talk, and High-Throughput Analysis
  - Workshop Session – Nonclinical and Clinical Applications of Translational Organ-Based Imaging
  - Co-Author on seven posters
- 2012 Food Safety Conference; Jefferson, AR; April 11, 2012.

- 2012 Invited speaker; NAS Emerging Science Workshop, "Individual Variability: Biological Factors that Underlie Individual Susceptibility to Environmental Stressors and Their Implications for Decision-Making;" NAS Keck Center; Washington, DC; April 18-19, 2012.
- 2012 Plenary Speaker at the workshop titled 'Genetic Toxicology: Opportunities to Integrate New Approaches' at the ILSI Health and Environmental Sciences Institute's (HESI) Project Committee on the Relevance and Follow-Up of Positive Results in *In Vitro* Genetic Toxicity (IVGT) Testing; Silver Spring, MD; April 24-25, 2012.
- 2012 Presented keynote address on pediatric anesthetics at the International Association of Neurorestoratology and 9th Global College of Neuroprotection & Neurogeneration Conference with the 4<sup>th</sup> International Spinal Cord Injury Treatment & Trial Symposium; Xian, China; May 4-7, 2012.
- 2012 Presented keynote address at the 2012 Global Summit on Regulatory Science—Modernizing Toxicology. This conference provided a forum for government, industry, and academic scientists from ten countries to discuss innovative technologies and partnerships to enhance translation of basic science into regulatory applications within the global context. The international event was hosted by NCTR, the FDA Office of International Programs, Zhejiang University, and the Chinese Academy of Engineering in Hangzhou, China, on May 9-11, 2012.
- 2012 Met with FDA staff in the Beijing FDA Office and reviewed strategy to use the Global Summits on Regulatory Science as a foundation for capacity building for regulatory science in multiple countries. Also visited Tianjin Medical School and sFDA to discuss progress on the International Student Exchange Program and global support of Regulatory Science. Beijing, China; May 14-15, 2012.
- 2012 Presented abstract, "Assessment of Developmental Exposure to Pediatric Anesthetics Using MicroPET Imaging," at the 52<sup>nd</sup> Annual Meeting of the Teratology Society; Baltimore, MD; June 23-27, 2012.
- 2012 SmartTots Scientific Working Group; White Oak Campus; Silver Spring, MD; September 10, 2012.
- 2012 Keynote Lecture at the Ohio Valley Society of Toxicology Meeting; Columbus, OH; September 28, 2012.
- 2012 Session Chair and presentation concerning the safe use of pediatric anesthetics at the International Conference on Neuroprotective Agents; Wendake; Quebec City, Canada; September 30-October 3, 2012.
- 2013 Session Chair and two presentations: 1) Role of Academia in Providing Training in Regulatory Sciences; 2) Non-Monotonic Dose Response; Winter Tox Forum; January 29-31, 2013; Washington, DC.
- 2013 52<sup>nd</sup> Annual Meeting of the Society of Toxicology; San Antonio, TX; March 9-13, 2013:
  - President – Served as Chair of several meetings, host of several functions, provided introduction for several speakers.

- 2013 MidSouth Computational Biology and Bioinformatics Society (MCBIOS) Annual Meeting; Columbia, MO; April 5-6, 2013.
- 2013 Co-Chair at the Global Coalition for Regulatory Science Research held in Jefferson, AR, September 10, 2013.
- 2013 Co-Organizer and Program Planner for the Global Summit on Regulatory Science – Nanotechnology, Jefferson, AR, September 10, 2013 and Little Rock, AR, September 11, 2013.
- 2013 Participated in activities as member of the Data Science Board, Emerging Analytics Center; University of Arkansas at Little Rock, Little Rock, AR; November 8-9, 2013.
- 2013 Arkansas Obesity Symposium; Little Rock, AR; December 11, 2013.
- 2014 Presentation at the MidSouth Computational Biology and Bioinformatics Society (MCBIOS) Annual Meeting; Stillwater, OK; March 7-8, 2014.
- 2014 53<sup>rd</sup> Annual Meeting of the Society of Toxicology & Council Meeting; Poster Presentation; Phoenix, AZ; March 22-27, 2014.
- 2014 Invited Keynote Speaker at the Drug Discovery and Development Colloquium 2014, UAMS, Little Rock, AR, June 20-21, 2014.
- 2014 Invited Keynote Speaker at the 39<sup>th</sup> Annual Summer Meeting of The Toxicology Forum; Aspen, CO; July 7-9, 2014.
- 2014 Co-Chair of the Global Coalition for Regulatory Science Research (GCRSR) Executive Committee Meeting held August 20, 2014, in Montreal, Canada.
- 2014 Co-Organizer and Program Planner of the Global Summit on Regulatory Science – Regulatory Genomics and Beyond (GSR14) held August 21-22, 2014, in Montreal, Canada.
- 2014 Officer and Co-Organizer of the International Conference on Neuroprotective Agents (ICNA), Charlottesville, VA, September 28-October 1, 2014.
- 2014 Invited to make the presentation entitled, "Use of stem cells to assess safety and protection pathways for anesthetic agents during development", at the International Society of Cellular Therapy, South Central America Regional Meeting, October 9-11, 2014 in Buenos Aires, Argentina.
- 2015 Invited Cardiovascular Science Seminar Speaker at the Cardiovascular Institute, Stanford University, Stanford, CA, April 14, 2015.
- 2015 Invited Seminar Series Speaker at the Neuroscience Institute, University of Tennessee Health Science Center, Memphis, TN., April 28, 2015.
- 2015 Met with Key Officials at the Chinese Food and Drug Administration, Beijing, China, to foster organizational capacity building for regulatory science and expand the Global Coalition for Regulation Science (GCRSR) Executive Committee Membership in China.

- 2015 Co-Chair of the Global Coalition for Regulatory Science Research (GCRSR) Executive Committee Meeting, October 12, 2015, October Parma, Italy.
- 2015 Co-Organizer and Program Planner for the Global Summit on Regulatory Science - Regulatory Bioinformatics (GSRS15), October 12-13, 2015, Parma, Italy
- 2015 Invited to present the keynote address entitled, "World Impact of 3D Cell Models and Microphysiological Systems on Drug and Chemical Safety Assessment", on October 27, 2015 at the 7<sup>th</sup> National Congress of Toxicology in Wuhan, China.
- 2016 Chair of the Global Coalition for Regulatory Science Research (GCRSR) Executive Committee Meeting, September 6, 2016, Bethesda, MD.
- 2016 Co-Organizer of the Global Summit on Regulatory Science (GSRS16) - Nanotechnology Standards and Applications, held September 7-9, 2016, on the National Institute of Health campus in Bethesda, MD.
- 2016 Officer, Co-Organizer, and presenter at the International Conference on Neuroprotective Agents (ICNA), Bilbao, Spain, September 18-21, 2016. Presentation: "Anesthetic-Induced Developmental Neurotoxicity in Animal Models that Suggest Potential Clinical Neuroprotective Approaches"
- 2017 Moderated session, "A Search for Biomarkers of Neurotoxicity: A Practical Approach" 2017 Toxicology Forum 41<sup>st</sup> Annual Winter Meeting, Washington, DC, February 6-8, 2017

## Publications

1. Brocco MJ, **Slikker W Jr** and Killam KF Jr. Characterization of EEG effects following acute and chronic administration of lithium chloride in *Macaca mulatta*. Proc West Pharmacol Soc. 19:428-431, 1976 (Society Proceedings).
2. Holmes WH and **Slikker W Jr**. Some properties of the labeled material excreted by intact and adenohipophysectomized ducts (*Anas platyrhynchos*) given single doses of labeled corticosterone. Gen Comp Endocrinol. 29(1):128-140, May 1976.
3. Killam KF Jr, **Slikker W Jr**, Brocco MJ and Gehrmann JE. Correlation of behavioral and EEG effects during interaction studies with secobarbital and psychomotor stimulants. Proc West Pharmacol Soc. 19:432-434, 1976 (Society Proceedings).
4. **Slikker W Jr**, Brocco MJ and Killam KF Jr. Comparison of the effects following acute and chronic administration of lithium chloride in *Macaca mulatta*. Proc West Pharmacol Soc. 19:424-427, 1976 (Society Proceedings).
5. **Slikker W Jr** and KF Killam Jr. Studies on central functional equivalence. III: Classification of several psychomotor stimulants and anorectic agents. Current Medical Research and Opinion 6(1):135-148, 1979 (Symposium Proceedings).
6. Hadd HE, **Slikker W Jr**, and Helton ED. The synthesis and characterization of the glucopyranosiduronic acids of 17 alpha-ethynylestradiol-17 beta. J Steroid Biochem. 13(9):1107-1114, Sept 1980.

7. Hill DE, **Slikker W Jr**, Helton ED, Lipe GW, Newport GD, Sziszak TJ, and Bailey JR. Transplacental pharmacokinetics and metabolism of diethylstilbestrol and estradiol-17B in the pregnant rhesus monkey. *J Clin Endocrinol Metab.* 50(5):811-818, May 1980.
8. Newport GD, SK Headley, JP Freeman, and **W Slikker Jr**. Separation of diethylstilbestrol and derivatives in biological fluids and tissues by high-pressure liquid chromatography. *J Liquid Chromatog.* 3(7):1053-1070, 1980.
9. Meyers M, **Slikker W**, Pascoe G, and Vore M. Characterization of cholestasis induced by estradiol-17B-D glucuronide in the rat. *J Pharmacol Exp Ther.* 214(1):87-93, Jul 1980.
10. Meyers M, **Slikker W**, and Vore M. Steroid D-ring glucuronides: characterization of a new class of cholestatic agents in the rat. *J Pharmacol Exp Ther.* 218:63-73, Jul 1981.
11. Raitano LA, **Slikker W Jr**, Hill DE, Hadd HE, Cairns T, and Helton ED. Ethynyl cleavage of 17 $\alpha$ -ethynyl-estradiol in the rhesus monkey. *Drug Metab Dispos.* 9(2):129-134, Mar-Apr 1981.
12. **Slikker W Jr**, Lipe GW, and Newport GD. High-performance liquid chromatographic analysis of estradiol-17B and metabolites in biological media. *J Chromatogr.* 224:(2):205-219, 1981.
13. Althaus ZR, Rowland JR, Freeman JP, and **Slikker W Jr**. Separation of some natural and synthetic corticosteroids in biological fluids by high-performance liquid chromatography. *J Chromatogr.* 227(1):11-23, Jan 8 1982.
14. **Slikker W Jr**, Hill DE, and Young JF. Comparison of the transplacental pharmacokinetics of estradiol-17B and diethylstilbestrol in the subhuman primate. *J Pharmacol Exp Ther.* 221(1):173-182, Apr 1982.
15. Goad PT, Hill DE, **Slikker W Jr**, and Gaylor DW. The effect of dietary fortification on blood ethanol concentrations, caloric consumption, and weight gain during ethanol consumption in mice. *Drug Nutrient Interactions* 1:213-228, 1982.
16. **Slikker W Jr**, Newport GD, Hill DE, and Bailey JR. Placental transfer of synthetic and endogenous estrogen conjugates in the rhesus monkey (*Macaca mulatta*). *Amer J Primatol.* 2:385-399, 1982.
17. **Slikker W Jr**, Bailey JR, Newport GD, Lipe GW, and Hill DE. Placental transfer and metabolism of 17 $\alpha$ -ethynylestradiol 17B and estradiol-17B in the rhesus monkey. *J Pharmacol Exp Ther.* 223(2):483-489, Nov 1982.
18. **Slikker W Jr**, Althaus ZR, Rowland JM, Hill DE, and Hendrickx AG. Comparison of the transplacental pharmacokinetics of cortisol and triamcinolone acetonide in the rhesus monkey. *J Pharmacol Exp Ther.* 223(2):368-374, Nov 1982.
19. Ali SF, Cranmer JM, Goad PT, **Slikker W Jr**, Harbison RD, and Cranmer MF. Trimethyltin induced changes of neurotransmitter levels and brain receptor binding in the mouse. *Neurotoxicology* 4(1):29-36, Spring 1983.

20. Hadd HE, **Slikker W Jr**, Miller DW, Helton ED, Duax WL, Strong PD, and Swenson DC. Synthesis and characterization of the anomeric pair of 17B-glucuronides of ethynylestradiol. *J Steroid Biochem.* 18(1):81-87, Jan 1983.
21. Hill, DE, **Slikker W Jr**, Goad PT, Bailey JR, Sziszak TJ, and Hendrickx AG. Maternal, fetal, and neonatal elimination of ethanol in nonhuman primates. *Dev Pharmacol Ther.* 6(4):259-268, 1983.
22. Kimmel GL, Harmon JR, and **Slikker W Jr**. Characterization of estrogen binding in uterine cytosol from the fetal rhesus monkey. *Teratog Carcinog and Mutagen.* 3(4):355-365, 1983.
23. Leakey JE, Althaus ZR, Bailey JR, and **Slikker W Jr**. UDP-Glucuronyltransferase activity exhibits two developmental groups in liver from fetal rhesus monkeys. *Biochem J.* 214(3):1007-1009, Sep 15 1983.
24. Rowland JM, Althaus ZR, **Slikker W Jr**, and Hendrickx AG. Distribution and metabolism of triamcinolone acetonide in the rat embryomaternal unit during a teratogenically sensitive period. *Toxicol Appl Pharmacol.* 67(1):70-77, Jan 1983.
25. Rowland JM, Althaus ZR, **Slikker W Jr**, and Hendrickx AG. Comparative distribution and metabolism of triamcinolone acetonide and cortisol in the rat embryomaternal unit. *Teratology* 27(3):333-341, Jun 1983.
26. Schmid SE, Au WY, Hill DE, Kadlubar FF, and **Slikker W Jr**. Cytochrome P-450 oxidation of the 17a-ethynyl group of synthetic steroids: D-homoannulation or enzyme inactivation. *Drug Metab Dispos.* 11(6):531-536, Nov-Dec 1983.
27. **Slikker W Jr**, Vore M, Bailey JR, Meyers M, and Montgomery C. Hepatotoxic effects of estradiol-17B-D-glucuronide in the rat and monkey. *J Pharmacol Exp Ther.* 225(1):138-143, Apr 1983.
28. Vore M, Hadd H, and **Slikker W Jr**. Ethynylestradiol-17B D-ring glucuronide conjugates are potent cholestatic agents in the rat. *Life Sci.* 32(26):2989-2993, Jun 27 1983.
29. Buelke-Sam J, Kimmel GL, Webb PJ, **Slikker W Jr**, Newport GD, Nelson CJ, and Kimmel CA. Postnatal toxicity following prenatal reserpine exposure in rats: effects of dose and dosing schedule. *Fundam Appl Toxicol.* 4(6):983-991, Dec 1984.
30. Goad PT, Hill DE, **Slikker W Jr**, Kimmel CA, and Gaylor DW. The role of maternal diet in the developmental toxicology of ethanol. *Toxicol Appl Pharmacol.* 73(2):256-267, Apr 1984.
31. Holder CL, Thompson HC Jr, and **Slikker W Jr**. Trace level determination of doxylamine in nonhuman primate plasma and urine by GC/NPD and HPLC. *J Anal Toxicol.* 8(1):46-50, Jan-Feb 1984.
32. **Slikker W Jr**, Althaus ZR, Rowland JM, Hendrickx AG, and Hill DE. Comparison of the metabolism of cortisol and triamcinolone acetonide in the early, mid and late gestational age rhesus monkey (*Macaca mulatta*). *Dev Pharmacol Ther.* 7(5):319-333, 1984.
33. **Slikker W Jr**, Brocco MJ, and Killam KF Jr. Reinstatement of responding maintained by cocaine and thiamylal. *J Pharmacol Exp Ther.* 228(1):43-52, Jan 1984.

34. **Slikker W Jr**, Lipe GW, Sziszak TJ, and Bailey JR. Changes in estrogen metabolism after chronic oral contraceptive administration in the rhesus monkey. *Drug Metab Dispos.* 12(2):148-153, Mar-Apr 1984.
35. Brown KS, DeSesso JM, Hassell J, Klein NW, Rowland JM, Steffek AJ, Carlton BD, Grabowski C, **Slikker W Jr**, and Walsh D. Comments on "Teratogen Update: Bendectin". *Teratology* 31:431, 1985.
36. Holder CL, Korfmacher WA, **Slikker W Jr**, Thompson HC Jr, and Gosnell AB. Mass spectral characterization of doxylamine and its rhesus monkey urinary metabolites. *Biomed Mass Spectrom.* 12(4):151-158, Apr 1985.
37. Korfmacher W, Holder C, Cerniglia C, Miller DW, Hansen EB Jr, Lambert KJ, Gosnell AB, **Slikker W Jr**, Rushing LG, and Thompson HC Jr. Desorption chemical ionization mass spectrometry of nine antihistamines and some of their metabolites. *Spectros. Int. J.* 4:181-192, 1985.
38. Kwarta RF Jr, Kimmel CA, Kimmel GL, and **Slikker W Jr**. Identification of the cellular retinoic acid binding protein (cRABP) within the embryonic mouse (CD-1) limb bud. *Teratology* 32(1):103-111, Aug 1985.
39. Leakey JE, Althaus ZR, Bailey JR, and **Slikker W Jr**. Dexamethasone increases UDP-glucuronyltransferase activity towards bilirubin, estradiol and testosterone in fetal liver from rhesus monkey during late gestation. *Biochem J.* 225(1):183-188, Jan 1985.
40. **Slikker W Jr**, Ali SF, Lipscomb J, and Denton R. Time course alterations in tremor and muscarinic receptor binding produced by trimethyltin. *Proc West Pharmacol Soc.* 28:139-142, 1985.
41. **Slikker W Jr** and Paule MG. Symposium Overview: Developmental Neuropharmacology/Neurotoxicology. *Proc West Pharmacol Soc.* 28:309-310, 1985.
42. Vore M and **Slikker W Jr**. Steroid D-ring Glucuronides: A New Class of Cholestatic Agents. *Trends in Pharmaceutical Sciences* 6(6):256-259, 1985.
43. Ali SF, Buelke-Sam J, Newport GD, and **Slikker W Jr**. Early neurobehavioral and neurochemical alterations in rats prenatally exposed to imipramine. *Neurotoxicology* 7(2):365-380, Summer 1986.
44. Ali SF, Buelke-Sam J, and **Slikker W Jr**. Prenatal reserpine exposure in rats decreases caudate nucleus dopamine receptor binding in female offspring. *Toxicol Lett.* 31(3):195-201, Jun 1986.
45. Ali SF, **Slikker W Jr**, Newport GD, and Goad PT. Cholinergic and monoaminergic alterations in the mouse central nervous system following acute trimethyltin exposure. *Acta Pharmacol Toxicol (Copenh).* 59(3):179-188, Sep 1986.
46. Althaus ZR, Bailey JR, Leakey JE, and **Slikker W Jr**. Transplacental metabolism of dexamethasone and cortisol in the late gestational age rhesus monkey (*Macaca mulatta*). *Dev Pharmacol Ther.* 9(5):332-349, 1986.

47. Horning MG, **Slikker W Jr**, Young JF, Kimmel CA, and Kimmel GL. Report of the IRLG workgroup on the role of pharmacokinetics in reproductive and developmental toxicology. *Environ Health Perspect.* 66:205-209, 1986.
48. Jurek A., Althaus ZA, **Slikker W Jr**, and Helton ED. Chronic effects of diethylstilbestrol on estrogen metabolism in the mouse. *J Environ Pathol Toxicol Oncol.* 7(1-2): 197-209, Sep-Dec 1986.
49. Leakey JE, Althaus ZR, Bailey JR, and **Slikker W Jr**. Dexamethasone induces hepatic cytochrome P-450 content and increases certain monooxygenase activities in rhesus monkey fetuses. *Biochem Pharmacol.* 35(8):1389-1391, Apr 15 1986.
50. Lipscomb JC, Paule MG, and **Slikker W Jr**. Fetomaternal kinetics of <sup>14</sup>C-trimethyltin. *Neurotoxicology* 7(2):581-590, Summer 1986.
51. Paule MG, Reuhl K, Chen JJ, Ali SF, and **Slikker W Jr**. Developmental toxicology of trimethyltin in the rat. *Toxicol Appl Pharmacol.* 84(2):412-417, Jun 1986.
52. Rushing L, Gosnell A, Holder C, Korfmacher W, and **Slikker W**. Separation and detection of doxylamine and its rhesus monkey urinary metabolites by high resolution gas chromatography utilizing nitrogen/phosphorus detection. *J High Resol Chromatog Chromatog Comm* 9:435-440, 1986.
53. **Slikker W Jr**, Holder CL, Lipe GW, Korfmacher WA, Thompson HC Jr, and Bailey JR. Metabolism of <sup>14</sup>C-labeled doxylamine succinate (Bendectin(r)) in the rhesus monkey (*Macaca mulatta*). *J Anal Toxicol.* 10(3):87-92, May-Jun 1986.
54. Ali SF, Newport GD, **Slikker W Jr**, and Bondy SC. Effect of trimethyltin on ornithine decarboxylase in various regions of the mouse brain. *Toxicol Lett.* 36(1):67-72, Mar 1987.
55. Bailey JR, Cunny HC, Paule MG, and **Slikker W Jr**. Fetal disposition of delta-9-tetrahydrocannabinol (THC) during late pregnancy in the rhesus monkey. *Toxicol Appl. Pharmacol.* 90(2):315-321, Sep 1987.
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58. Holder CL, Thompson HC Jr, Gosnell AB, Siitonen PH, Korfmacher WA, Cerniglia CE, Miller DW, Casciano DA, and **Slikker W Jr**. Metabolism of doxylamine succinate in Fischer 344 rats. Part II. Nonconjugated urinary and fecal metabolites. *J Anal Toxicol.* 11(3):113-121, May-Jun 1987.
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62. **Slikker W Jr**. The role of metabolism in the testing of developmental toxicants. *Reg. Toxicol. Pharmacol.* 7:390-413, 1987.
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## Abstracts

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## Technical Reports

1. #106, Metabolism of Synthetic Estrogen, 2/83.
2. #223, Transplacental Transfer of Polysaccharide Polyvalent Pneumococcal Vaccine and the Response in Fetal Rhesus Monkeys, 11/81.
3. #224, Chronic Indwelling Catheters in Fetal Rhesus Monkeys, 5/82.

4. #225, Comparison of the Transplacental Pharmacokinetics of Estradiol-17B and Diethylstilbestrol in the Rhesus Monkey, 10/81.
5. #226, The Metabolic Fate of Intralipid in Newborn Premature and Full-Term Rhesus Monkey, 10/81.
6. #227, The Transplacental Transfer of Indomethacin and its Pharmacokinetics in Pregnant Rhesus Monkeys, 7/81.
7. #294, Transplacental Transfer of Vitamin D (VD) Metabolites in Subhuman Primates, 4/81.
8. #307, Comparison of the Transplacental Pharmacokinetics and Metabolism of Synthetic and Natural Glucocorticoids in the Nonhuman Primate (*Macaca mulatta*), 7/83.
9. #310, Transplacental Pharmacokinetics and Metabolism of Corticosteroids in the Rat, 7/82.
10. #313, Developmental Toxicity of Ethanol (Includes NCTR Final Reports #6037 and #6067), 2/83.
11. #324, Development of Analytical Techniques for Use in Investigating the Pharmacodynamic Properties of Methylphenidate in Humans, 11/82.
12. #525, Aging and Dietary Effects on D1 and D2 Dopamine Receptor Binding in the B6C3F1 Mouse, 8/90.
13. #6033, Ethanol Toxicity in Neonatal Rat Brain as Assessed by 2-Deoxyglucose Uptake, 5/82.
14. #6084, Determination of Procainamide Acetylase Phenotype in Two Inbred Mouse Strains, 4/82.
15. #6089, Chronic Indwelling Intraplacental Catheters in the Rhesus Monkey, 8/84.
16. #6095, Methods Development for the Analysis of Catecholamines and Indoleamines with the Use of HPLC with Electrochemical Detection, 1/83.
17. #6126, Pharmacokinetics of Doxylamine (Bendectin) in the Nonhuman Primate, 3/88.
18. #6168, Toxicology of Ethanol in the Neonatal Rat, 8/84.
19. #6190, Comparison of Metabolism and Disposition of Dexamethasone (DEX) and Cortisol in the Pregnant Rhesus Monkey during Late Gestation, 7/86.
20. #6214, Hormonal Control of Drug Metabolizing Enzyme Development in the Rat and Monkey, 08/84.
21. #6230, Neuropathology and Behavioral Toxicology of Chronic Delta-9-THC and Marijuana Exposure in Nonhuman Primate, 9/90.
22. #6230.1, Morphometric studies of the Rat Hippocampus Following Chronic Delta-9-Tetrahydrocannabinol, 4/87.
23. #6230.02, Behavioral Effects of Chronic Marijuana Smoke Exposure in the Nonhuman Primate, 1/90.
24. #6230.03, Neurochemical and Neurohistological Evaluation of Rats Administered Chronic Delta-9-Tetrahydrocannabinol (Addendum to IAG E6230), 9/89.
25. #6230.04, Neuropathological Evaluation of Nonhuman Primates Exposed to Chronic Marijuana Smoke, 1/90.
26. #6241, The Development and Implementation of Sucrose Density Gradient Sedimentation Techniques for the Identification of the Cellular Retinoic Acid Binding Protein in Embryonic Mouse Limb Bud, 11/86.
27. #6265, Effect of Trimethyltin on Regional Neurotransmitter Levels and Receptor Binding in Mouse Brain, 7/86.
28. #6282, Developmental Toxicity of Prenatal Trimethyltin (TMT) Exposure, 8/85.
29. #6305, Pharmacokinetics of <sup>14</sup>C-Trimethyltin in the Rat, 2/87.
30. #6315, Neurochemical Evaluation Following Prenatal Reserpine Exposure, 7/87.
31. #6316, Developmental Neurochemical Evaluation Following Prenatal Trimethyltin (TMT) Exposure, 4/86.
32. #6335, Prewaning Behavioral and Neurochemical Evaluation Following Prenatal Imipramine Exposure, 11/87.

33. #6341, Behavioral Teratology of the Alpha-2 Adrenergic Receptor Agonists Clonidine and Lofexidine: Neurochemistry (Addendum to E6339), 3/88.
34. #6356, Plasma Concentrations of Cholecystinin (CCK) and  $\beta$ -Endorphin (BE) in Rhesus Monkeys Before and After Feeding, 9/87.
35. #6362, Stress and Catecholamine Systems in the Brain, 7/87.
36. #6372, The Effect of Transplacental Diphenylhydantoin (DPH) Exposure on Fetal Thyroid Function (The interaction of diphenylhydantoin (DPH) with the thyroid system in the developing rat), 11/87.
37. #6385, The Transplacental Pharmacokinetics of Trimethyltin, 8/87.
38. #6405, Effects of MDMA Administration on Brain Neurochemistry, Histology and Immunohistochemistry, 9/87.
39. #6410, Effects of Dexamethasone on the Development of P-450 Isozymes in the Rat Using Testosterone Metabolism as a Biomarker of Toxicity, 3/90.
40. #6412, Estrogenicity of 16-Methylene Estradiol and its Effects on Estradiol Metabolism in the Rat, 9/87.
41. #6417, Comparative Metabolism of Estrogen Using In Situ Placental Perfusion, *In Vitro* Placental Perfusion, *In Vitro* Placental Microsomal Metabolism and Maternal Fetal Metabolism as Models, 10/88.
42. #6426, The Effects of Protein Binding on Salicylate-Induced Teratogenicity in the Rat, 11/89.
43. #6431, Biomarkers for Neurotoxicity, 3/88.
44. #6432, Transport and Metabolism of Dexamethasone (DEX) in the *In Vitro* Perfused Human Placenta, 5/88.
45. #6433 (6446), The Effect of Pre- and Postnatal Phenytoin (PHT) Exposure on the Thyroid Status of the Developing Rat Pup, 11/89.
46. #6437, Comparing the Predictive Sensitivity of Neurological, Hormonal, Behavioral and Immunologic Biomarkers in the Rat Following Circumventricular Organ (CVO) Damage, 9/90.
47. #6446 (6433), Development of Dosing Schedules for Chronic Exposure of Pregnant Rats and Rat Pups to Phenytoin, 11/89.
48. #6447, Effect of Trimethyltin on Rat Hepatic Glutathione Transferases *In Vivo* and *In Vitro*, 10/89.
49. #6449 (496), The Metabolism and Toxicity of Pyrilamine Maleate and Methapyrilene Hydrochloride in Primary Cultures of Rat Hepatocytes, 10/89.
50. #6451, Comparative Effects of Acute Delta-9-Tetrahydrocannabinol and Marijuana Smoke on a Battery of Behavioral Tests in the Rhesus Monkey, 3/88.
51. #6453, Nutrition and Hepatic Isoenzyme Systems: Effects of Fasting, Route of Nutrients Delivery and Specific Nutrient Interaction, 2/88.
52. #6453.1, Nutrition and Hepatic Isoenzyme Systems: Effects of Fasting, Route of Nutrients Delivery and Specific Nutrient Interaction, 2/88.
53. #6456, Biomarkers for Phenytoin-Induced Developmental Toxicity, 9/89.
54. #6468, Effects of MDMA Administration on Brain Neurochemistry, Histology and Immunohistochemistry in the Monkey, 9/88.
55. #6469, Regional Distribution and Metabolism of MDMA in the Rat, 9/89.
56. #6488, Stereospecific and Metabolic Requirements for the Neurochemical Effects of MDMA in the Rat, 9/89.
57. #6490, Effects of Thallium on Dopamine Receptor Binding in Different Regions of the Rat Brain, 9/89.
58. #6500, Amphetamine-Induced Biochemical and Behavioral Alterations in Immature and Young Male and Female Rats, 9/89.
59. #6504, Pharmacokinetics of 13-Cis and All-Trans-Retinoic Acid in the Cynomolgus Monkey, 9/90.

60. #6542, Effect of Trimethyltin (TMT) on Amino Acid Concentrations in Different Regions of the Mouse Brain, 9/90.
61. #6568, Developmental Neurotoxicity of Methylenedioxymethamphetamine (MDMA), 8/90.
62. #6595, Self-Administration of the Volatile Nitrates by the Rhesus Monkey, 9/90.
63. #6596, Pharmacokinetics of Multiple Doses of Vitamin A (Retinol) in the Cynomolgus Monkey, 6/90.
64. #6615, Dietary Protein Alters Glutamate Receptors and Longevity, 4/90.
65. #6639, Prenatal Phencyclidine (PCP) Exposure in the Rat: Effects on Dopamine, PCP and NMDA-Receptor Systems in Offspring, 10/92.
66. #6698, Oxidative Reactive Species Induced Neurotoxicity: Possible Mechanisms of Action of Methamphetamine (METH) and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP), 8/94.
67. #6699, Specific Cocaine Actions Responsible for D2 Supersensitivity During Early Development in Prenatally Cocaine-Exposed Rats, 7/93.
68. #6705, Short- and Long-Term Methamphetamine (METH) Toxicity in the Rat, 11/92.
69. #6725.00.03, Neurotoxicity Assessment of Human Immunodeficiency Virus (HIV) Therapeutics in Nonhuman Primates: Preliminary Studies, 7/93.
70. #6725.05, Anatomical Localization of ddC Within the CNS Following Systemic and Intracranial Administration to the Fetal Monkey and Adult Rat, 9/94.
71. #6725.06, Placental Transfer and Fetal Disposition of 2'3'-dideoxyinosine (ddI) in the Monkey, 12/94.
72. #6745.01 and .03, Ischemic Hypoxia and Fetal Neurotoxicity, 5/94.
73. #6828, Manganese-induced Oxidative Stress by Reactive-Oxygen-Species: Possible Mechanism of Neurotoxicity, 11/94.
74. #6842, Interactive Effects of Prenatal Cocaine and Nicotine Exposure on Maternal Toxicity, Postnatal Development and Behavior in the Rat, 3/94.
75. #6753.00, .01 and .03. Behavioral and Neurochemical Effects of Chronic Methylenedioxymethamphetamine (MDMA) Treatment in Rhesus Monkeys, 5/95.
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79. #6725, Use of Rodent Operant Test Battery (OTB) and Other Tests to Assess Neurobehavioral Toxicity of ddC, 10/95.
80. #6818, Characterization of the Neurohistological Toxicity Associated with Low Dose Exposures to Domoic Acid in the Rat, 10/95.
81. #6869, The Effect of Prenatal Hypoxia on Postnatal Hippocampal Development in the Rat: Behavioral, Neurohistological and Neurochemical Studies, 10/95.
82. #6869.01 and 6869.11, Effects of Ischemia-Hypoxia Induced by Interruption of Uterine Blood Flow on Fetal Rat Liver and Brain Enzyme Activities and Offspring Behavior, 11/95.
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84. #6761.00, Postnatal Ontogeny of Neurotoxicity Susceptibility to Phenylisopropylamine Serotonergic Neurotoxicants, 9/96.
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86. #6730, Use of Rodent Operant Test Battery (OTB) to Assess Neurobehavioral Toxicity: Preliminary Studies, 4/96.
87. #6988, Age-Related Changes in Antioxidant Enzymes, Superoxide Dismutase, Catalase, Glutathione Peroxidase and Glutathione in Different Regions of Mouse Brain, 9/96.

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101. #6992.01, Validation Study of the Physiologically-based Pharmacokinetic (PBPK) Model for Description of Low-dose, Long-term Exposure of 2,4-Dichlorophenoxyacetic Acid (2,4-D) Dosimetry in the Central Nervous System (CNS), 5/01.
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104. #7010.01, Metabolic Correlates of the Neurotoxicity Associated with Exposure to the Mitochondrial Inhibitor 3-nitropropionic Acid (3-NPA) in the Rat: The Role of Free Fatty Acids (FFA), 5/02.
105. #6914.01, Validation of the NCTR Rodent Operant Test Battery as an Adjunct to the NCTR Primate Operant Test Battery: Implications for Risk Assessment and the Prediction of Neurobehavioral Toxicity across Species, 8/02.
106. #7013.01, Development and Validation of a Neurohistochemical Test Battery for Resolving the Distribution of Lesions and the Underlying Mechanisms of Action of Neurotoxicants, 8/03.
107. #6983.01, Effects of Ibogaine on Neurotransmitter Systems, Generation of Free Radicals and Nitric Oxide Synthase Activity: Correlation with Neurohistological Evaluations in Mouse and Rat Brain, 8/03.
108. #7038.01, Acute Toxicity of Iron Compounds in Young Mice and Rats, 8/03.
109. #3100.01, Quantitative Procedures for Neurotoxicity Risk Assessment, 11/05.
110. #7140.01, An efficient regulatory method for evaluating chromosomal damage: analysis of micronucleus in different rat strains by flow cytometry.

111. #E07121.01, Evaluation of Novel Genetic Changes and Post-Translational Modification in the Protein Products of Specific Genes in Parkinson's Disease and in Substituted Amphetamine Neurotoxicity Using Quantitative Proteome Analysis in Mice Models and Human Subjects.
112. #E07110.01, E07110.11, E07110.21, E07110.31 – The Role of Mitochondrial Energy Disruption in the Mechanism of Neurotoxicity, Neurophysiology, Neurochemical, and cDNA Approaches.