

**46th Annual Meeting of the Developmental Neurotoxicology Society
Virtual Meeting
June 26–June 29, 2022**

**Held in Conjunction with the
62nd Annual Meeting of the
Society for Birth Defects Research and Prevention
and the
34th Annual Education Meeting for the
Organization of Teratology Information Specialists**

DNTS 2022 Program Overview

The times listed are in Pacific Daylight Time.

Sunday, June 26, 2022

- 8:15 AM–9:00 AM** **Josef Warkany Lecture**
Finding A Common Ground: Translation of the Principles of Teratology in Today's Regulatory Climate
(Joint with BDRP and OTIS)
Chairperson: Susan L. Makris, Center for Public Health and Environmental Assessment, US EPA
Lecturer: Alan M. Hoberman, Charles River
- 9:00 AM–9:15 AM** **DNTS Presidential Welcome**
Speaker: Patricia Janulewicz Lloyd, Boston University
- 9:15 AM-9:30 AM** **Break**
- 9:30 AM–11:15 AM** **DNTS Microtalks**
- 11:15 AM-11:30 AM** **Break**
- 11:30 AM-1:30 PM** **DNTS Philip J. Bushnell Symposium: The Continuing Importance of Behavioral Toxicology**
Chairperson: Edward Levin, Duke University for Brain Sciences
- 11:30 AM–11:50 AM** **Appreciation of Phil Bushnell**
Edward Levin, Duke University for Brain Sciences
Mary Gilbert, US Environmental Protection Agency (EPA)
William Boyes, US Environmental Protection Agency (EPA), ret.
- 11:50 AM–12:10 PM** **Cognitive Effects of Perinatal Exposure to Manganese in Drinking Water, Variable Stress and Their Contributions**
Wendy Oshiro, US Environmental Protection Agency (EPA)
David Herr, US Environmental Protection Agency (EPA)

- 12:10 PM–12:30 PM** **Does Adolescent Methylmercury Exposure Affect Attention and Memory?**
Dalisa Kendricks, Auburn University
Chris Newland, Auburn University
- 12:30 PM–12:50 PM** **Behavioral Toxicology of Inhalants: Preclinical to Clinical Research**
Sylvia Cruz, Center for Research and Advanced Studies of the National Polytechnic Institute
Scott Bowen, Wayne State University
- 12:50 PM–1:10 PM** **Associations of concurrent PCB and PBDE concentrations with executive function in adolescents**
Jenna Spowles, Beckman Institute for Advanced Science and Technology, University of Illinois Urbana-Champaign
Susan Schantz, Beckman Institute for Advanced Science and Technology, University of Illinois Urbana-Champaign
- 1:10 PM–1:15 PM** **Break**
- 1:15 PM–1:30 PM** **Discussion of the Continuing Importance of Behavioral Toxicology**
Edward Levin, Duke University for Brain Sciences
Chris Newland, Auburn University
William Boyes, US Environmental Protection Agency (EPA), ret
- 1:30 PM–3:00 PM** **Extended Break**
- 3:00 PM–5:40 PM** **Virtual Social Event**
- 5:40 PM–6:10 PM** **Patricia Rodier Mid-Career Award for Research and Mentoring Putting the Long in Longitudinal: Research and Mentoring in Neurotoxicology**
(Joint with BDRP)
Chairpersons: Kembra L. Howdeshell, National Institute of Environmental Health Sciences and Mary E. Gilbert, US Environmental Protection Agency
Lecturer: Jennifer Anne Willford, Slippery Rock University of Pennsylvania

Monday, June 27, 2022

- 8:00 AM–9:00 AM** **Keynote Lecture**
Functional Correlation of Genome-Wide DNA Methylation Profiles in Genetic and Teratogenic Neurodevelopmental Disorders (L1)
(Joint with BDRP and OTIS)
Chairperson: Bruce K. Beyer, Sanofi US, Inc.
Speaker: Bekim Sadikovic, London Health Sciences Centre
- 9:05 AM–12:00 Noon** **Novel Approaches for Assessment of Complex Chemical Mixtures in Evaluations of Reproductive and Developmental Effects Symposium**
(Joint with BDRP)

Chairpersons: Catheryne Chiang, Office of Research and Development, US EPA and Krista Christensen, Office of Research and Development. US EPA

- 9:05 AM–9:15 AM** **Introduction**
- 9:15 AM–9:45 AM** **Exploration of Disinfection Byproduct Mixture Methods in an Epidemiological Study of Birth Defects**
J. Michael Wright, US Environmental Protection Agency
- 9:45 AM–10:15 AM** **Application of Sufficient Similarity Analyses for Complex Polychlorinated Biphenyl Mixtures**
Catheryne Chiang, US Environmental Protection Agency
- 10:15 AM–10:30 AM** **Break**
- 10:30 AM–10:55 AM** **Impact of Prenatal Exposure to Phthalate Mixture on Uterine Function in Female Offspring**
Indrani C. Bagchi, University of Illinois at Urbana Champaign
- 10:55 AM–11:30 AM** **Prenatal Consumer Product Chemical Mixtures and Size-for-Gestational Age at Birth**
Paige A. Bommarito, National Institute of Environmental Health Sciences
- 11:30 AM–11:55 AM** **Association between Exposure to a Metal Mixture and Neurobehavior at Six to Seven Years of Age**
Francheska M. Merced-Nieves, Icahn School of Medicine at Mount Sinai
- 11:55 PM–12:00 Noon** **Discussion**
- 12:00 Noon–12:30 PM** **Break**
- 12:30 PM–1:30 PM** **President’s Distinguished Lecture**
Chairperson: Patricia Janulewicz Lloyd, Boston University
- 12:30 PM–1:10 PM** **Children’s Exposure to Chemical and Non-Chemical Stressors: What Have We Learned About Health and Well-Being**
Nicolle S. Tulse, Center for Public Health and Environmental Assessment, US EPA
- 1:10 PM–1:30 PM** **Discussion**
- 1:30 PM–2:30 PM** **Extended Break**
- 2:35 PM–5:55 PM** **The Legacy of Dr. Robert L. Brent: Accurate Assessment and Communication of Teratogen Risks Symposium**
(Joint with BDRP and OTIS)
Chairpersons: Janine E. Polifka, Retired and Christine Perdan Curran, Northern Kentucky University

2:35 PM–3:00 PM	Tribute to Dr. Robert L. Brent: Let the Yolk Sac Speak—A Small Drop in the Deep Water of Bob’s Legacy in Science <i>Asher Ornoy, Hebrew University, Hadassah Medical School, Adelson School of Medicine, Ariel University</i>
3:00 PM–3:25 PM	Radiation Risks and Information Needs of Pregnant and Lactating Women <i>Fred Mettler, University of New Mexico School of Medicine</i>
3:25 PM–4:00 PM	Professionally Responsible Counseling of Pregnant Women about COVID-19 Vaccination <i>Frank A. Chervenak, Lenox Hill Hospital</i>
4:00 PM–4:15 PM	Break
4:15 PM–4:40 PM	Using Supervised Learning Methods to Create Prediction Models Based on Narrative Descriptions of Fetal Risk <i>Elizabeth C. Ailes, Centers for Disease Control and Prevention</i>
4:40 PM–5:05 PM	Bob Brent: Medical Expert, Expert Medical Witness, and Expert on Medical Expert Witnessing. <i>Jan M. Friedman, University of British Columbia</i>
5:05 PM–5:55 PM	Sharing Memories of Dr. Robert L. Brent

Tuesday, June 28, 2022

7:30 AM–8:00 AM	Virtual Social (Mentorship/Career Advice)
8:00 AM–8:30 AM	Virtual Social (Academia Discussion Group)
8:30 AM–9:00 AM	Virtual Social (Government/Industry Discussion Group)
9:05 AM–12:00 Noon	Disparities in Pregnancy and Birth Outcomes Symposium (Joint with BDRP and OTIS) <i>Organized by the Diversity, Equity, and Inclusion Workgroup</i> <i>Chairpersons: José Cordero, University of Georgia and Nicole R. Sparks, University of California, Riverside</i>
9:05 AM–9:40 AM	Disparities in Research Funding for Health Issues that Affect People of Color <i>José Cordero, University of Georgia</i>
9:40 AM–10:15 AM	Disparities in Maternal Health and Neurodevelopmental Outcomes <i>Natacha M. De Genna and Gale A. Richardson, University of Pittsburgh</i>
10:15 AM–10:30 AM	Break

10:30 AM–11:05 AM	The Influence of Social Disparities on Congenital Anomalies in the North <i>Laura Arbour, UBC Department of Medical Genetics</i>
11:05 AM–11:45 AM	Structural and Interpersonal Racism and Adverse Birth Outcomes: From Associations to Advocacy <i>Renee Mehra, University of California, San Francisco</i>
11:45 AM–12:00 Noon	Discussion
12 Noon–12:15 PM	Break
12:15 PM–1:15 PM	Elsevier Distinguished Lecturer <i>Chairpersons: Patricia Janulewicz Lloyd, Boston University</i>
12:15–12:55 PM	What Improves, and What Impairs, Executive Functions <i>Adele Diamond, The University of British Columbia</i>
15:55 PM–1:15 PM	Discussion
1:15 PM–2:00 PM	Extended Break
2:00 PM–5:00 PM	Per- and Polyfluoroalkyl Substances (PFAS) and Children's Health Symposium (Joint with BDRP) <i>Organized by the Public Affairs Committee</i> <i>Chairpersons: Suzanne E. Fenton, National Institute of Environmental Health Sciences and Tamarra James-Todd Harvard T.H. Chan School of Public Health</i>
2:00 PM–2:15 PM	Introduction to PFAS: Exposures and Biomonitoring <i>Rachel D. Rogers, ATSDR, CDC</i>
2:15 PM–2:45 PM	Underlying Conditions and PFAS Exposures: A Risky Mix in Pregnancy <i>Tamarra James-Todd Harvard T.H. Chan School of Public Health</i>
2:45 PM–3:15 PM	GenX Effects in Pregnant Mice and Persistent Effects in Their Offspring <i>Suzanne E. Fenton, National Institute of Environmental Health Sciences</i>
3:15 PM–3:30 PM	Break
3:30 PM–4:00 PM	Cardiometabolic and Bone Health Effects of PFAS Exposure in Adolescents <i>Joseph M. Braun, Brown University School of Public Health</i>
4:00 PM–4:30 PM	Immunotoxic Effects of PFAS in Children <i>C. Amalie G. Timmermann, University of Copenhagen</i>
4:30 PM–4:45 PM	Approaches to Protect Susceptible Populations from PFAS Health Effects

Rachel D. Rogers, ATSDR, CDC

4:45 PM–5:00 PM Discussion

Wednesday, June 29, 2022

8:00 AM–9:00 AM **DNTS New Investigator Award**

Chairperson: TBD

Lecturer: TBD

9:05 AM–12:00 Noon **Wiley Symposium
Environmental Justice in Birth Defects Research**
(Joint with BDRP)

*Chairpersons: Bevin E. Blake, US Environmental Protection Agency and
Brandy Beverly, National Institute of Environmental Health Sciences*

9:05 AM–9:30 AM **Traffic-Related Air Pollution and Hypertensive
Disorders of Pregnancy**

*Brandy Beverly, National Institute of Environmental
Health Sciences*

9:30 AM–10:00 AM **Health Disparities in Pregnancy and Postpartum
Care During Public Health Emergencies**

Sonja A. Rasmussen, University of Florida

10:00 AM–10:30 AM **Developmental Lead Exposure, Brain and Behavioral
Outcomes: A Forty-Year Prospective Study.**

*Kim Dietrich, The University of Cincinnati College of
Medicine*

10:30 AM–11:00 AM **Break**

11:00 AM–11:30 AM **Race Differences in Phthalate Exposure and
Consequent Risk of Preterm Birth: Findings from
Sixteen US Cohorts**

*Kelly K. Ferguson, Perinatal and Early Life Epidemiology
Group, NIEHS*

11:30 PM–12:00 Noon **TBA**

To be confirmed

12:00 Noon–12:15 PM **Break**

12:15 PM–1:45 PM **DNTS Business Meeting**

END OF DNTS MEETING 1:45 PM