

46th Annual Meeting of the Developmental Neurotoxicology Society

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**

**Virtual Meeting
June 26–June 29, 2022**

DNTS 2022 Program Overview

The times listed are in Eastern Standard Time.

Sunday, June 26, 2022

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| 11:15 PM–12:00 Noon | Josef Warkany Lecture
Finding A Common Ground: Translation of the Principles of Teratology in Today's Regulatory Climate
(Joint with BDRP and OTIS)
<i>Chairperson: Susan L. Makris, Center for Public Health and Environmental Assessment, US EPA</i>
<i>Lecturer: Alan M. Hoberman, Charles River</i> |
| 12:00 Noon–12:15 PM | DNTS Presidential Welcome
<i>Speaker: Patricia Janulewicz Lloyd, Boston University</i> |
| 12:15 PM-12:30 PM | Break |
| 12:30 PM–2:15 PM | DNTS Microtalks |
| 2:15 PM-2:30 PM | Break |
| 2:30 PM-4:30 PM | DNTS Philip J. Bushnell Symposium: The Continuing Importance of Behavioral Toxicology
<i>Chairperson: Edward Levin, Duke University for Brain Sciences</i> |
| 2:30 PM–2:50 PM | Appreciation of Phil Bushnell
<i>Edward Levin, Duke University for Brain Sciences</i>
<i>Mary Gilbert, US Environmental Protection Agency (EPA)</i>
<i>William Boyes, US Environmental Protection Agency (EPA), ret.</i> |
| 2:50 PM–3:10 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)

- 3:10 PM–3:30 PM** **Does Adolescent Methylmercury Exposure Affect Attention and Memory?**
Dalisa Kendricks, Auburn University
Chris Newland, Auburn University
- 3:30 PM–3:50 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
- 3:50 PM–4:10 PM** **Associations of concurrent PCB and PBDE concentrations with executive function in adolescents**
Jenna Sprowles, 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
- 4:10 PM–4:15 PM** **Break**
- 4:15 PM–4:30 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
- 4:30 PM–6:00 PM** **Extended Break**
- 6:00 PM–8:30 PM** **Virtual Social Event**
- 8:40 PM–9:10 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

- 11:00 AM–12:00 Noon** **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

12:05 PM–3:00 PM

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

12:05 PM–12:15 PM **Introduction**

12:15 PM–12:45 PM **Exploration of Disinfection Byproduct Mixture Methods in an Epidemiological Study of Birth Defects**

J. Michael Wright, US Environmental Protection Agency

12:45 PM–1:15 PM **Application of Sufficient Similarity Analyses for Complex Polychlorinated Biphenyl Mixtures**

Catheryne Chiang, US Environmental Protection Agency

1:15 PM–1:30 PM **Break**

1:30 PM–1:55 PM **Impact of Prenatal Exposure to Phthalate Mixture on Uterine Function in Female Offspring**

Indrani C. Bagchi, University of Illinois at Urbana Champaign

1:55 PM–2:30 PM **Prenatal Consumer Product Chemical Mixtures and Size-for-Gestational Age at Birth**

Paige A. Bommarito, National Institute of Environmental Health Sciences

2:30 PM–2:55 PM **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

2:55 PM–3:00 PM **Discussion**

3:00 PM–3:30 PM

Break

3:30 PM–4:30 PM

President's Distinguished Lecture

Chairperson: Patricia Janulewicz Lloyd, Boston University

3:30 PM–4:10 PM **Children's Exposure to Chemical and Non-Chemical Stressors: What Have We Learned About Health and Well-Being**

Nicolle S. Tolve, Center for Public Health and Environmental Assessment, US EPA

4:10 PM–4:30 PM **Discussion**

4:30 PM–5:30 PM

Extended Break

5:35 PM–8:55 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

5:35 PM–6:00 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

Asher Ornoy, Hebrew University, Hadassah Medical School, Adelson School of Medicine, Ariel University

6:00 PM–6:25 PM

Radiation Risks and Information Needs of Pregnant and Lactating Women

Fred Mettler, University of New Mexico School of Medicine

6:25 PM–7:00 PM

Professionally Responsible Counseling of Pregnant Women about COVID-19 Vaccination

Frank A. Chervenak, Lenox Hill Hospital

7:00 PM–7:15 PM

Break

7:15 PM–7:40 PM

Using Supervised Learning Methods to Create Prediction Models Based on Narrative Descriptions of Fetal Risk

Elizabeth C. Ailes, Centers for Disease Control and Prevention

7:40 PM–8:05 PM

Bob Brent: Medical Expert, Expert Medical Witness, and Expert on Medical Expert Witnessing.

Jan M. Friedman, University of British Columbia

8:05 PM–8:55 PM

Sharing Memories of Dr. Robert L. Brent

Tuesday, June 28, 2022

10:30 AM–11:00 AM

Virtual Social (Mentorship/Career Advice)

11:00 AM–11:30 AM

Virtual Social (Academia Discussion Group)

11:30 AM–12:00 Noon

Virtual Social (Government/Industry Discussion Group)

12:05 PM–3:00 PM

Disparities in Pregnancy and Birth Outcomes Symposium
(Joint with BDRP and OTIS)

Organized by the Diversity, Equity, and Inclusion Workgroup

Chairpersons: José Cordero, University of Georgia and Nicole R. Sparks, University of California, Riverside

12:05 PM–12:40 PM

Disparities in Research Funding for Health Issues that Affect People of Color

José Cordero, University of Georgia

12:40 PM–1:15 PM	Disparities in Maternal Health and Neurodevelopmental Outcomes <i>Natacha M. De Genna and Gale A. Richardson, University of Pittsburgh</i>
1:15 PM–1:30 PM	Break
1:30 PM–2:05 PM	The Influence of Social Disparities on Congenital Anomalies in the North <i>Laura Arbour, UBC Department of Medical Genetics</i>
2:05 PM–2:45 PM	Structural and Interpersonal Racism and Adverse Birth Outcomes: From Associations to Advocacy <i>Renee Mehra, University of California, San Francisco</i>
2:45 PM–3:00 PM	Discussion
3:00 PM–3:15 PM	Break
3:15 PM–4:15 PM	Elsevier Distinguished Lecturer <i>Chairpersons: Patricia Janulewicz Lloyd, Boston University</i>
3:15 PM–3:55 PM	What Improves, and What Impairs, Executive Functions <i>Adele Diamond, The University of British Columbia</i>
3:55 PM–4:15 PM	Discussion
4:15 PM–5:00 PM	Extended Break
5:00 PM–8:00 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>
5:00 PM–5:15 PM	Introduction to PFAS: Exposures and Biomonitoring <i>Rachel D. Rogers, ATSDR, CDC</i>
5:15 PM–5:45 PM	Underlying Conditions and PFAS Exposures: A Risky Mix in Pregnancy <i>Tamarra James-Todd Harvard T.H. Chan School of Public Health</i>
5:45 PM–6:15 PM	GenX Effects in Pregnant Mice and Persistent Effects in Their Offspring <i>Suzanne E. Fenton, National Institute of Environmental Health Sciences</i>
6:15 PM–6:30 PM	Break
6:30 PM–7:00 PM	Cardiometabolic and Bone Health Effects of PFAS Exposure in Adolescents

Joseph M. Braun, Brown University School of Public Health

7:00 PM–7:30 PM **Immunotoxic Effects of PFAS in Children**
C. Amalie G. Timmermann, University of Copenhagen

7:30 PM–7:45 PM **Approaches to Protect Susceptible Populations from PFAS Health Effects**
Rachel D. Rogers, ATSDR, CDC

7:45 PM–8:00 PM **Discussion**

Wednesday, June 29, 2022

11:00 AM–12:00 Noon **DNTS New Investigator Award**

Chairperson: TBD
Lecturer: TBD

12:05 AM–3:00 PM **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

3:00 PM–3:15 PM **Break**

3:15 PM–4:45 PM **DNTS Business Meeting**

END OF DNTS MEETING 4:45 PM