

Developmental Neurotoxicology Society (DNTS)
47th Annual Meeting
Charleston Marriott
Charleston, SC
June 24–28, 2023

Saturday, June 24, 2023

2:00 PM–5:00 PM **Registration Open**

3:00 PM–5:00 PM **Council Meeting**

Sunday, June 25, 2023

8:00 AM–1:30 PM **Registration Open**

8:45 AM–9:00 AM **President’s Welcome**

9:05 AM–12:05 PM **DNTS Symposium: Developmental Outcomes following Neuroinflammatory Exposures**

*Chairpersons: Laura M. Carlson, US Environmental Protection Agency and
Tim Anderson, US Environmental Protection Agency*

9:05 AM–9:35 AM Overview of the Role of the Immune System in
Brain Development and Function
Sarah Blossom, University of New Mexico

9:35 AM–10:05 AM Pregnancy-dependent Neuroimmune and
Endocrine effects of Endocrine Disrupting
Chemical Mixtures: Implications for Maternal
Health and Fetal Development
Marissa Sobolewski, University of Rochester

10:05 AM–10:35 AM Environmental Exposures and Neurobehavioral
Disorders
Gisel Flores-Montoya, Carleton College

10:35 AM–10:50 AM Break

10:50 AM–11:20 AM The Lasting Impact of Maternal Immune
Activation during Gestation and
Neurodevelopment
Judy Van de Water, University of California Davis

11:20 AM–11:50 AM Promoting Neuroprotection vs.
Neurodegeneration: Sex- and Age-Specific
Neuroinflammatory Responses to Injury and
Infection
Monica Carson, University of California Riverside

11:50 AM–12:05 PM Discussion

12:05 PM–1:30 PM **Lunch on Your Own**

- 1:30 PM–2:30 PM** **DNTS Elsevier Distinguished Lecture**
Climate Change, Fossil-Fuel Pollution, and Children’s Health and Development
Chairperson: Patricia Janulewicz Lloyd, Boston University
Lecturer: Frederica Perera, Columbia Mailman School of Public Health
- 2:30 PM–2:50 PM** **Break**
- 2:50 PM–3:50 PM** **DNTS Strategic Planning Meeting**
- 3:50 PM–5:20 PM** **The HEALthy Brain and Child Development Study Symposium**
(Joint with BDRP)
Chairpersons: Christina D. Chambers, University of California San Diego and Ludmila Bakhireva, University of New Mexico
- 3:50 PM–4:10 PM The HEALthy Brain and Child Development Study: Why This and Why Now?
Michelle Freund, National Institute on Drug Abuse
- 4:10 PM–4:30 PM Overview of the HBCD Study Design and Plan for Data Release
Christina D. Chambers, University of California San Diego
- 4:30 PM–4:50 PM Selection of Measures and Pilot Results for Biospecimens in the HBCD Study
Ludmila Bakhireva, University of New Mexico
- 4:50 PM–5:10 PM Selection of Measures and Pilot Results for Neuroimaging
Chris Smyser, University of Washington
- 5:10 PM–5:20 PM Discussion
- 5:25 PM–5:55 PM** **Patricia Rodier Mid-Career Award for Research and Mentoring**
Interactions between Early Postnatal Experience, Gut Microbiota, and Adult Neurobehavior in a Rodent Model
Lori Driscoll, Colorado College
(Joint with BDRP)
- 6:00 PM–7:30 PM** **Poster Session 1 and Exhibits Attended**
(Joint with BDRP and OTIS)
- 7:30 PM–9:30 PM** **Graduate Student and Postdoctoral Fellows Career Event**
Hosted by Middle Atlantic Reproduction and Teratology Association (MARTA)

Monday, June 26, 2023

- 8:00 AM–Noon** **Registration Open**
- 8:00 AM–9:00 AM** **Keynote Lecture**
Protecting Mothers and Babies Through Research: A Time for Change
(Joint with BDRP and OTIS)
Christina Bucci-Rechtweg, Novartis Pharmaceuticals Corporation

9:05 AM–12:00 Noon

DNTS Platform Session 1

Chairperson: Diana Dow-Edwards, State University of New York

9:05 AM–9:30 AM

Prenatal Cannabis Use during the Second Trimester of Pregnancy in the YoungMoms Project

Natacha de Genna, University of Pittsburg

9:30 AM–9:55 AM

Examining the Relationship of Acetaminophen Use During Pregnancy with Early Language Development in Children

Megan Woodbury, University of IL at Urbana-Champaign

9:55 AM–10:20 AM

Associations of Prenatal Triclosan Exposure with Parent-Reported Behavioral Problems in Two- and Three- Year-Old Children

Patricia Cintora, University of IL at Urbana-Champaign

10:20 AM–10:35 AM

Break

10:35 AM–11:00 PM

Associations Between a Prenatal Stress Mixture and Preschoolers' Temperament: Impact of Race/Ethnicity

Francheska Merced-Nieves, Icahn School of Medicine at Mount Sinai

11:00 AM–11:25 PM

Do Infant Behaviors Mediate the Relationship of Prenatal Cocaine Exposure (PCE) to Adult Perceptual Reasoning Deficits?

Lynn Singer, Case Western Reserve University

11:25 AM–11:45 AM

Discussion

11:45 AM–2:00 PM

Lunch on Your Own

12:00 Noon–2:00 PM

NTT Editorial Board Working Lunch

2:35 PM–5:30 PM

DNTS Platform Session 2

Chairperson: Melissa Bailey, Emporia University

2:35 PM–3:00 PM

Thyroid Hormone System Adverse Outcome Pathways and Developmental Neurotoxicity

Mary Gilbert, US EPA

3:00 PM–3:25 PM

Developmental Trajectories of Locomotor Effects Following Embryonic Toxicant Exposures in Zebrafish

Andrew Hawkey, Midwestern University

3:25 PM–3:50 PM

Selective Deficits in Frontal Cortical Parvalbumin Containing GABA Neurons Following Developmental Nicotine Exposure

Mia Trupiano, Florida State University College of Medicine

- 3:50 PM–4:05 PM Break
- 4:05 PM–4:30 PM Stress-Related Adaptations Following Loss of Dopamine D1 Receptors in Cerebral Cortical Interneurons
Nella Delva, Florida State
- 4:30 PM–4:55 PM Interaction of Iatrophilin-3, an ADHD Risk Gene, and Deltamethrin in Sprague Dawley Rats on Learning and Memory
Charles Vorhees, Cincinnati Children's Hospital Medical Center
- 4:55 PM–5:20 PM A Pilot Study to Determine if Exercise Can Mitigate the Effects of Benzo[a]pyrene Developmental Neurotoxicity
Christine Curran, Northern Kentucky
- 5:20 PM–5:30 PM Discussion

5:30 PM–7:00 PM **Poster Session 2 and Exhibits Attended**
(Joint with DNTS)

Tuesday, June 27, 2023

8:00 AM–12:00 Noon **Registration Open**

8:00 AM–9:00 AM **Robert L. Brent Lecture—Teratogen Update**
The Effects of the Dobbs Decision on Teratology: The Effects on Research
(Joint with BDRP and OTIS)
Chairperson: Anthony M. DeLise, Novartis Pharmaceuticals Corporation
Lecturer: Anne D. Lyerly, University of North Carolina at Chapel Hill

9:05 AM–12:00 Noon **Health Disparities within Communities of Color Symposium**
(Joint with BDRP and OTIS)
Organized by the BDRP Diversity, Equity, and Inclusion Workgroup
Chairpersons Madeline Vera-Colon, University of California, Riverside and Vinita Leedom, South Carolina Department of Health and Environmental Control

- 9:05 AM–9:40 AM What You Need to Know about Children's Health and Environmental Exposures Through the Diet
Gredia Huerta-Montañez, Northeastern University
- 9:40 AM–10:15 AM Disparities and Opportunities in Global Prevention and Care of Folate-Sensitive Spina Bifida
Vijaya Kancherla, Emory University
- 10:15 AM–10:30 AM Break
- 10:30 AM–11:05 AM Traumatic Brain Injury in Women: The Case of Sex/Gender as Social Determinants of Health

Martina Anto-Ocrah, University of Pittsburgh

11:05 AM–11:45 AM

Medical and Developmental Effects of Prenatal and Early Childhood Lead Exposure
Michelle Myer, SC Department of Health and Environmental Control

11:45 AM–12:00 Noon

Discussion

12:00 Noon–2:00 PM

Lunch on Your Own

2:00 PM–5:00 PM

COVID-19 and Pregnancy: An Update and Planning for the Future Symposium

(Joint with BDRP)

Organized by the BDRP Public Affairs Committee

Chairpersons: Vijaya Kancherla, Emory University and Sonja A. Rasmussen, Johns Hopkins University

2:00 PM–2:25 PM

COVID-19 in Pregnancy: Maternal, Placental, and Fetal Implications
Andrea Edlow, Mass General Research Institute

2:25 PM–2:50 PM

COVID-19 in Pregnancy: An Update from the US Centers for Disease Control and Prevention
Suzanne Gilboa, National Center on Birth Defects and Developmental Disabilities, CDC

2:50 PM–3:15 PM

Findings from the ECHO Cohorts Regarding the Effects of the COVID-19 Pandemic
Leonardo Trasande, New York University Grossman School of Medicine

3:15 PM–3:30 PM

Break

3:30 PM–3:55 PM

COVID-19 in Early Pregnancy. Clinical Implications and Methodological Considerations
Sonia Hernandez-Diaz, Harvard T.H. Chan School of Public Health

3:55 PM–4:20 PM

COVID-19 in Pregnancy: What Do We Know Now?
Malavika Prabhu, Mass General Hospital

4:20 PM–4:45 PM

Ethics, Evidence and Vaccination in Pregnancy: Lessons from COVID-19
Anne Drapkin Lyerly, University of North Carolina at Chapel Hill

4:45 PM–5:00 PM

Discussion

6:00 PM–8:00 PM

DNTS Social

Wednesday, June 28, 2023

8:00 AM–9:00 AM	New Investigator Award Presentation
9:05 AM–12:00 Noon	Applications of New Approach Methods in Developmental and Reproductive Toxicology Symposium (Joint with BDRP) <i>Chairpersons: Amer Jamalpoor, Toxy B.V. and Jessica A. Palmer, Stemina Biomarker Discovery, Inc.</i>
9:05 AM–9:40 AM	Establishing Confidence in NAMs for Developmental and Reproductive Toxicity <i>Nicole C. Kleinstreuer, NIEHS/NICEATM</i>
9:40 AM–10:15 AM	Practical Application of New Approach Methods (NAMs) in Developmental Toxicity Testing <i>Kathryn Wolton or Ramya Rajagopal, Unilever Safety and Environmental Assurance Centre</i>
10:15 AM–10:45 AM	Warkany Tea
10:45 AM–11:10 AM	How to Gain Confidence for Using NAMs in the Regulatory Arena of DART Testing <i>Steven Van Cruchten, Antwerp University</i>
11:10 AM–11:30 AM	The Use of Zebrafish Alternative Animal Model to Predict Human Developmental and Reproductive Toxicity According to the ICH S5 R3 Guideline <i>Arantza Muriana, Biobide USA</i>
11:30 AM–11:50 AM	ReproTracker as an <i>In Vitro</i> Alternative to Animal Models for Developmental Toxicity Testing <i>Amer Jamalpoor, Toxy B.V.</i>
11:50 AM–12:00 Noon	Discussion
12:30 PM–2:00 PM	Business Meeting
2:00 PM	DNTS Meeting Adjourn