**Forty-Third Annual Meeting of the Developmental Neurotoxicology Society**

**Held in Conjunction with the 59th Annual Meeting of the Teratology Society and 32nd Annual Education Meeting for the Organization of Teratology Information Specialists**

**Sheraton San Diego Hotel and Marina**

**San Diego, California**

**June 23–26, 2019**

***(As of January 16, 2019)***

**2019 Richard Butcher New Investigator Award:**

**2019 Patricia Rodier Mid-Career Award:**

**2019 DNTS Conference Awards:**

**DNTS 2019 Program**

**Saturday, June 22, 2019**

**4:00 PM-7:00 PM Registration Open Harbor Island Foyer**

**5:00 PM-6:30 PM DNTS Council Meeting Location TBD**

Sunday, June 23, 2019

7:00 AM–6:00 PM Registration Open Harbor Island Foyer

7:00 AM–8:00 AM 2020 Program Committee Meeting Location TBD

7:30 AM–8:00 AM Morning Coffee and Pastries Harbor Island Foyer

(Joint with TS)

8:00 AM–8:15 AM Presidential Welcome Harbor Island 1

8:15 AM–9:00 AM DNTS 1: Josef Warkany Lecture Harbor Island 2

Developmental Toxicity of Perfluorinated Compounds: A Voyage from Animal Studies to Engineered Cells

(Joint with TS and OTIS)

Chairperson: Dana L. Shuey, Incyte Corporation

Lecturer: Barbara D. Abbott

9:05 AM–12:00 PM DNTS Symposium Harbor Island 1  
The Microbiome as a Modulator of Neurodevelopmental Disorders and Neurodegenerative Disease

Chairperson: Lori Driscoll, Colorado College, Colorado Springs, CO, USA

9:05 AM–9:15 AM **DNTS 2: The Gut-Brain Axis: A Primer**

Lori Driscoll, Colorado College, Colorado Springs, CO, USA

9:15 AM–9:45 AM **DNTS 3:** **Immune and Microbiota Profiles in Children with ASD and Co-Morbid GI Symptoms**

*Destanie Rose, University of California - Davis MIND Institute, Sacramento, CA, USA*

9:45 AM–10:15 AM **DNTS 4:** **Title TBA**

*Karen-Anne McVey Neufeld, McMaster University Brain-Body Institute, Hamilton, ON Canada*

10:15 AM–10:45 AM **DNTS 5:** **Title TBA**

*Siobhain O'Mahony, University College Cork, Cork, Ireland*

10:45 AM–11:00 AM Break (Harbor Island Foyer)

11:00 AM–11:30 AM **DNTS 6: Mitochondrial Bioenergetics and Gut Metabolites: Implications for Neurotoxicity and Disease**

*Christopher Martyniuk, University of Florida, Gainesville, FL, USA*

11:30 AM–12:00 PM **DNTS 7:** **Microbiome Based Translational Strategy in Parkinson’s Disease**

Anumantha Kanthasamy, Iowa State University, Ames, Iowa, USA

**12:00 PM–1:30 PM Lunch on Your Own**

1:30 PM–2:30 PM Elsevier Distinguished Lecture Harbor Island 1

DNTS 8: Can Endocrine Disrupting Compounds Change Basic Brain Function/Structure Over Multiple Generations?

*Emilie Rissman, North Carolina State University, Raleigh, NC, USA*

2:35 PM–5:30 PM DNTS/TS Joint Symposium Harbor Island 2

Ocean-Borne Risks to Pregnant Women and Their Babies

*Chairpersons: Elaine M. Faustman, University of Washington and Edward D. Levin, Duke University*

2:35 PM–3:10 PM **DNTS 9: Benefits and Risks of Oceans on Human Health**

Bradley S. Moore. Scripps Institution of Oceanography

3:10 PM–3:45 PM **DNTS 10: Lessons Learned from Hurricane Maria and Impact within the Puerto Rican Children's Cohort from Water Contamination, Infection, and Stress**

José F. Cordero, University of Georgia

3:45 PM–4:00 PM Break (Harbor Island Foyer)

4:00 PM–4:35 PM **DNTS 11: Domoic Acid Developmental Neurotoxicity: New Insights from Human and Animal Studies**

Elaine M. Faustman, University of Washington

4:35 PM–5:10 PM **DNTS 12: What Do Fish Tell Us About Developmental Neurotoxic Risks of the Sea?**

Edward D. Levin, Duke University

5:10 PM–5:30 PM Discussion

**5:35 PM–6:00 PM DNTS 13: Patricia Rodier Mid-Career Harbor Island 2**

Award for Research and Mentoring

TBA

(Joint with TS)

Chairpersons: **Nicole Churchill Kleinstreuer, NTP Interagency Center for the Evaluation of Alternative Toxicological Methods, NIEHS** and Sonya K. Sobrian, Howard University College of Medicine

Lecturer: TBA

6:00 PM–8:00 PM Welcome Reception, Poster Session 1, Nautilus

and Exhibits Attended

(Joint with TS)

**Presenting author is underlined.**

**DNTS P1:** Title

*Presenting Author, Author 2, Affiliations*

**DNTS P2:**

*Presenting Author, Author 2, Affiliations*

[ADD ADDITIONAL DNTS POSTERS]

Monday, June 24, 2019

7:00 AM–6:00 PM Registration Open Harbor Island Foyer

7:30 AM–8:00 AM Morning Coffee and Pastries Harbor Island Foyer

(Joint with TS)

8:00 AM–9:00 AM DNTS 14: Keynote Lecture Harbor Island 2

Environmental Influences on Child Health   
Outcomes (ECHO): A National Research Program

(Joint with TS and OTIS)

Chairperson: Christine Perdan Curran, Northern Kentucky University

Speakers: Carol J. Blaisdell, Environmental Influences on Child Health Outcomes, NIH and Amy Elliott, Avera Research Institute

9:05 AM–12:00 PM DNTS/TS Joint Symposium Harbor Island 2

Perinatal Choline Supplementation and Risk of Neurodevelopmental

Disorders Symposium

Chairpersons: Carl L. Keen, University of California–Davis and  
Helen J. K. Sable, University of Memphis

9:05 AM–9:15 AM Introduction

9:15 AM–9:45 AM **DNTS 15: Choline and Brain Development: An Overview**

Steven H. Zeisel, University of North Carolina–Chapel Hill

9:45 AM–10:15 AM **DNTS 16: Maternal Choline Supplementation Produces Lasting Offspring Cognitive Benefits: Insights from a Mouse Model of Down Syndrome and a Small Human Clinical Trial**

*Barbara Strupp, Cornell University*

10:15 AM–10:30 AM Break (Harbor Island Foyer)

10:30 AM–11:00 AM **DNTS 17: Can Choline Ameliorate the Neurodevelopmental Effects of Prenatal Exposure to Alcohol?**

Christina D. Chambers, University of California–San Diego

11:00 AM–11:30 AM **DNTS 18:** **Perinatal Choline Supplementation Improves Social Behavior in Rodent Models of Autism**

Tiffany J. Mellot, Boston University School of Medicine

11:30 AM–12:00 PM **DNTS 19:** **How Targeted Choline Supplementation Reverses the Negative Neurocognitive and Genomic Impacts of Early-Life Iron Deficiency**

Michael K. Georgieff, University of Minnesota

12:00 PM–1:45 PM Lunch on Your Own

12:00 PM–1:45 PM *NTT* Editorial Board Meeting Location TBD

1:45 PM–4:00 PM DNTS Symposium Harbor Island 1

Honoring the Contributions of DNTS Member Merle Paule

*Chairperson: Jerry Meyer, University of Massachusetts, Amherst*

1:45 PM–2:00 PM **Introduction**

Presenter TBD

2:00 PM–2:30 PM **DNTS 20: Title TBA**

Presenter TBD

2:30 PM–3:00 PM **DNTS 21:** **Title TBA**

Presenter TBD

3:00 PM–3:30 PM **DNTS 22:** **Title TBA**

Presenter TBD

3:30 PM–4:00 PM **DNTS 23:** **Title TBA**

Presenter TBD

4:00 PM–4:15 PM Break (Harbor Island Foyer)

**4:15 PM–5:40 PM DNTS Platform Session 1** **Harbor Island 1***Chairperson: Chip Vorhees, University. of Cincinnati and Cincinnati Children's Hospital, Cincinnati, OH, USA*

**Presenting author is underlined.**

4:15 PM–4:20 PM **Introduction**

Presenter TBD

4:20 PM–4:40 PM **DNTS 24: Title TBD**

*Presenting Author, Author 2, Affiliations*

4:40 PM–5:00 PM **DNTS 25: Title TBD**

*Presenting Author, Author 2, Affiliations*

5:00 PM–5:20 PM **DNTS 26: Title TBD**

*Presenting Author, Author 2, Affiliations*

5:20 PM–5:40 PM **DNTS 27: Title TBD**

*Presenting Author, Author 2, Affiliations*

**6:00 PM–8:00 PM Poster Session 2 and Exhibits Attended Nautilus**

(Joint with TS and OTIS)

**Presenting author is underlined.**

**DNTS PX:** Title

*Presenting Author, Author 2, Affiliations*

**DNTS PX:**

*Presenting Author, Author 2, Affiliations*

[ADD ADDITIONAL DNTS POSTERS]

**8:00 PM–10:00 PM Teratology Society and MARTA Seabreeze  
Graduate Students and Postdoctoral**

**Fellows Career Event**

(Open to Teratology Society, DNTS, and OTIS Graduate Students  
and Postdoctoral Fellows)

Tuesday, June 25, 2019

7:00 AM–6:00 PM Registration Open Harbor Island Foyer

7:30 AM–8:00 AM Morning Coffee and Pastries Harbor Island Foyer

(Joint with TS)

**8:15 AM–9:00 AM** **DNTS 28: Workshop** **Harbor Island 1**

**Alternative Statistical Approaches for Controlling Litter Effects**

*Lecturers: Christina Sobin, University of Texas, El Paso, and ???*

9:05 AM–12:00 PM DNTS/TS Joint Symposium Harbor Island 2

Establishing Scientific Confidence in Alternate Approaches

*Chairpersons: Nicole Churchill Kleinstreuer, NTP Interagency Center for the Evaluation of Alternative Toxicological Methods, NIEHS and Jessica A. Palmer, Stemina Biomarker Discovery, Inc*

9:05 AM–9:45 AM **DNTS 29:** **Federal Agency Activities to Identify and Implement Alternatives**

Nicole Churchill Kleinstreuer, NTP Interagency Center for the Evaluation of Alternative Toxicological Methods, NIEHS

9:45 AM–10:25 AM **DNTS 30:** ***In Vitro* to *In Vivo* Extrapolation Using Maternal-Fetal Models**

Annie Lumen, US Food and Drug Administration

10:25 AM–10:40 AM Break (Harbor Island Foyer)

10:40 AM–11:20 AM **DNTS 31:** **Developing Screening Batteries and Compound Test Sets for Developmental Neurotoxicity Screening: International Efforts**

Timothy J. Shafer, US Environmental Protection Agency

11:20 AM–12:00 PM **DNTS 32: Integrated Testing Strategies for Developmental Neurotoxicity Testing**

Mamta Behl, National Toxicology Program, NIEHS

12:00 PM–1:30 PM Lunch on Your Own

**1:30 PM–4:00 PM DNTS Platform Session 2** **Harbor Island 1***Chairperson: TBD*

**Presenting author is underlined.**

1:30 PM–1:35 PM **Introduction**

Presenter TBD

1:35 PM–1:55 PM **DNTS 33: Title TBD**

*Presenting Author, Author 2, Affiliations*

1:55 PM–2:15 PM **DNTS 34: Title TBD**

*Presenting Author, Author 2, Affiliations*

2:15 PM–2:35 PM **DNTS 35: Title TBD**

*Presenting Author, Author 2, Affiliations*

2:35 PM–2:55 PM **DNTS 36: Title TBD**

*Presenting Author, Author 2, Affiliations*

2:55 PM–3:10 PM Break (Harbor Island Foyer)

3:10 PM–3:40 PM **DNTS 37: Title TBD**

*Presenting Author, Author 2, Affiliations*

3:40 PM–4:00 PM **DNTS 38: Title TBD**

*Presenting Author, Author 2, Affiliations*

4:00 PM-5:00 PM DNTS Business Meeting Harbor Island 1

5:30 PM – 9:00 PM DNTS Social Event Meet in Hotel Lobby

Old Town Trolley City Tour

Dinner at Ballast Point Brewery Little Italy

*Return trips on Trolley to Hotel at 7:45 and 9:00 pm*

Wednesday, June 26, 2019

7:00 AM–6:00 PM Registration Open Harbor Island Foyer

7:30 AM–8:00 AM Morning Coffee and Pastries Harbor Island Foyer

(Joint with TS)

**8:00 AM–8:30 AM** **DNTS 39: Title TBD**  **Harbor Island 1**  
**Richard Butcher New Investigator Award**

*Presenting Author, Author 2, Affiliations*

8:30 AM–9:45 AM DNTS Mini-Symposium Harbor Island 1

#TrendingTopics in Developmental Neurotoxicology

*Chairperson: TBA*

8:30 AM-8:35 AM **Introduction**

Presenter TBD

8:35 AM – 9:10 AM **DNTS 40**: **SlinkR and Developmental Neurotoxicity**

Robert Tanguay, Oregon State University

9:10 AM – 9:45 AM **DNTS 41**: **TBD**

*Presenting Author, Author 2, Affiliations*

**9:45 AM – 12:00 PM DNTS Platform Session 3** **Harbor Island 1***Chairperson: TBD*

**Presenting author is underlined.**

9:45 AM–9:50 AM **Introduction**

Presenter TBD

9:50 AM–10:10 AM **DNTS 42: Title TBD**

*Presenting Author, Author 2, Affiliations*

10:10 AM–10:30 AM **DNTS 43: Title TBD**

*Presenting Author, Author 2, Affiliations*

10:30 AM–11:00 AM Break: Warkany Tea (Harbor Island Foyer)

11:00 AM–11:20 AM **DNTS 44: Title TBD**

*Presenting Author, Author 2, Affiliations*

11:20 AM–11:40 AM **DNTS 45: Title TBD**

*Presenting Author, Author 2, Affiliations*

11:40 AM–12:00 PM **DNTS 46: Title TBD**

*Presenting Author, Author 2, Affiliations*

**SAVE THE DATE: DNTS 2020 Meeting, June 28–July 1, 2020**

Charleston Marriott

170 Lockwood Boulevard

Charleston, SC

(Joint with The Teratology Society)