Only sessions designated with CME are eligible for Continuing Medical Education credit.

**Friday, June 22, 2018**

3:00 PM–6:00 PM  Registration Open  Grand Ballroom Foyer

**Saturday, June 23, 2018**

7:30 AM–6:00 PM  Registration Open  Grand Ballroom Foyer

8:00 AM–8:30 AM  Education Course Coffee and Pastries  Grand Ballroom D
   (Education Course Session 1 Registrants Only)

8:30 AM–12:00 Noon  Education Course Session 1  Grand Ballroom D
   Embryology and Development of Central Nervous System: From Prenatal Period to Adolescence
   (Separate Registration Required)
   Organized by the Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation

   8:30 AM–8:40 AM  Welcome  Teratology Society President, Alan M. Hoberman, Charles River Laboratories

   8:40 AM–8:45 AM  Course Overview  Education Committee Chairperson, Julia Y. Hui, Celgene Corporation

   8:45 AM–9:30 AM  Pre- and Postnatal Development of the Central Nervous System
                   John M. DeSesso, Exponent, Inc.

   9:30 AM–10:15 AM  Development of Central Nervous System:
                    Differences/Comparisons in Mammalian Species
                    Christine Charvet, Cornell University

   10:15 AM–10:30 AM  Break

   10:30 AM–11:15 AM  Pre- and Postnatal Development and
                    Assessment of Central Nervous System Functions in Human and Animals
                    Gregg D. Stanwood, Florida State University

   11:15 AM–12:00 Noon  Susceptibility to Disruptions of Normal Central Nervous System Development by Toxicants and
                        Other Factors  Christine Perdan Curran, Northern Kentucky University
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00 Noon–1:30 PM</td>
<td>Lunch on Your Own</td>
</tr>
</tbody>
</table>
| 1:30 PM–5:00 PM | **Education Course Session 2**  
Assessment and Management of Developmental Effects on the Central Nervous System: From the Molecular Level to the Clinical Setting  
(Separate Registration Required)  
Organized by the Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation |
| 1:30 PM–1:35 PM | Course Overview  
*Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation*               |
| 1:35 PM–2:20 PM | Brain Extracellular Space: A Molecular Highway for Cell Communication in Development  
*Sabina Hrabetova, SUNY Downstate Medical Center*                                       |
| 2:20 PM–3:05 PM | Developmental Neurotoxicity: *In Vivo* Preclinical Assessment and Models of Disease  
*Ellen McGlinchey, Charles River Laboratories*                                            |
| 3:05 PM–3:20 PM | Break                                                                                      |
| 3:20 PM–4:05 PM | Developmental Neurotoxicology: The Continuum from *In Vivo* to *In Vitro* and Alternate Approaches  
*William Slikker Jr., US Food and Drug Administration*                                   |
| 4:05 PM–4:50 PM | Clinical Assessments and Management of Developmental Effects on the Central Nervous System  
*Claire D. Coles, Emory University School of Medicine*                                    |
| 4:50 PM–5:00 PM | Discussion                                                                                 |
| 5:30 PM–7:30 PM | **Student and Postdoctoral Fellow Mixer**                                                  |
| 6:30 PM–9:00 PM | **Council 1 Meeting**  
Committee Reports                                                                 |

**Sunday, June 24, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 7:00 AM–6:00 PM | **Registration Open**  
Grand Ballroom Foyer                                                                               |
| 7:00 AM–8:00 AM | **2019 Program Committee Meeting**  
Waters Edge A                                                                                  |
| 7:30 AM–8:00 AM | **Morning Coffee and Pastries**  
(Joint with DNTS)  
Grand Ballroom Foyer                                                                           |
| 8:00 AM–8:15 AM | **President’s Welcome**  
*Teratology Society President, Alan M. Hoberman, Charles River Laboratories*    |
| 7:00 AM–8:00 AM | **Student and Postdoctoral Fellow Mixer**                                                  |
| 6:30 PM–9:00 PM | **Council 1 Meeting**  
Committee Reports                                                                 |

**Sunday, June 24, 2018**

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| 7:00 AM–8:00 AM | **2019 Program Committee Meeting**  
Waters Edge A                                                                                  |
| 7:30 AM–8:00 AM | **Morning Coffee and Pastries**  
(Joint with DNTS)  
Grand Ballroom Foyer                                                                           |
| 8:00 AM–8:15 AM | **President’s Welcome**  
*Teratology Society President, Alan M. Hoberman, Charles River Laboratories*    |

**Sunday, June 24, 2018**

<table>
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| 7:00 AM–6:00 PM | **Registration Open**  
Grand Ballroom Foyer                                                                               |
| 7:00 AM–8:00 AM | **2019 Program Committee Meeting**  
Waters Edge A                                                                                  |
| 7:30 AM–8:00 AM | **Morning Coffee and Pastries**  
(Joint with DNTS)  
Grand Ballroom Foyer                                                                           |
| 8:00 AM–8:15 AM | **President’s Welcome**  
*Teratology Society President, Alan M. Hoberman, Charles River Laboratories*    |
8:15 AM–9:00 AM  Josef Warkany Lecture
The Arrogance of Teratology (L1)
(Joint with DNTS)
Chairperson: Alan M. Hoberman, Charles River Laboratories
Lecturer: John M. DeSesso, Exponent, Inc.

9:05 AM–12:05 PM  Graduate Student and Postdoctoral Fellow Platform Session 1
Grand Ballroom D
Organized by the Student Affairs Committee
Chairperson: Dinesh J. Stanislaus, GlaxoSmithKline
Presenting author is underlined.

9:05 AM–9:10 AM  Introduction
Dinesh J. Stanislaus, GlaxoSmithKline

9:10 AM–9:30 AM  1 A Mechanistic Agent-Based Model for Brain Angiogenesis and Developmental Neurovascular Toxicity
Zurlinden TJ¹, Saili KS¹, Spencer RS², Baker NC³, Knudsen TB¹. ¹US Environmental Protection Agency, ORD, National Center for Computational Toxicology, Research Triangle Park, NC, United States, ²ARA, Research Triangle Park, NC, United States, ³Leidos, Research Triangle Park, NC, United States.

9:30 AM–9:50 AM  2 Transcriptomic Profiling of Flame Retardant Exposures in Human Embryonic Stem Cell Neural Progenitors
Chen H, Iyer N, Yan CD, Robinson JF. University of California, San Francisco, San Francisco, CA, United States

9:50 AM–10:10 AM  3 Intrinsic and Ethanol-Enhanced Fetal DNA Damage and Neurodevelopmental Deficits in Brca1 Knockout Progeny Associated with Decreased Brain BRCA1 Levels
Drake DM¹, Or B², Wells PG²³. ¹Department of Pharmaceutical Sciences and the Centre for Pharmaceutical Oncology, University of Toronto, Toronto, ON, Canada, ²Department of Pharmacology and Toxicology, Faculty of Medicine, University of Toronto, Toronto, ON, Canada, ³Department of Pharmaceutical Sciences and the Centre for Pharmaceutical Oncology, University of Toronto, Toronto, ON, Canada.
10:10 AM–10:30 AM 4 Transient Maternal Hypothyroidism Alters Neural Progenitors and Results in Abnormal Brain Development
O'Shaughnessy KL\textsuperscript{1,2}, Thomas SE\textsuperscript{1,2}, Ford JL\textsuperscript{2}, Ford RL\textsuperscript{1,2}, Gilbert ME\textsuperscript{2}. \textsuperscript{1}Oak Ridge Institute for Science Education (ORISE), Oak Ridge, TN, United States, \textsuperscript{2}US Environmental Protection Agency, ORD, National Health and Environmental Effects Research Laboratory, Toxicity Assessment Division, Research Triangle Park, NC, United States.

10:30 AM–10:45 AM Break—Grand Ballroom Foyer

10:45 AM–11:05 AM 5 Increased Risk of Necrotizing Enterocolitis in Offspring of Toxicant-Exposed Mice
Mokshagundam S\textsuperscript{1}, Ding T\textsuperscript{1}, Wilson AJ\textsuperscript{1}, Dallas ML\textsuperscript{2}, Osteen KG\textsuperscript{2}, Bruner-Tran KL\textsuperscript{1}. \textsuperscript{1}Vanderbilt University Medical Center, Nashville, TN, United States, \textsuperscript{2}Vanderbilt University, Nashville, TN, United States.

11:05 AM–11:25 AM 6 Medically Assisted Reproduction and the Risk of Preterm Birth
Gorgui J\textsuperscript{1,2}, Sheehy O\textsuperscript{2}, Trasler J\textsuperscript{3}, Fraser W\textsuperscript{4}. \textsuperscript{1}University of Montréal, Montréal, QC, Canada, \textsuperscript{2}CHU Sainte-Justine Research Center, Montréal, QC, Canada, \textsuperscript{3}McGill University, Montréal, QC, Canada, \textsuperscript{4}University of Sherbrooke, Sherbrooke, QC, Canada.

11:25 AM–11:45 PM 7 Surveillance of Microcephaly and Neurotropic Infections Using Healthcare Databases
Messinger CJ\textsuperscript{1,2}, He M\textsuperscript{3}, Huybrechts KF\textsuperscript{2}, Bateman B\textsuperscript{3}, Hernandez-Diaz S\textsuperscript{3}. \textsuperscript{1}Harvard Medical School, Boston, Massachusetts, United States, \textsuperscript{2}Division of Pharmacoepidemiology and Pharmacoeconomics, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, United States, \textsuperscript{3}Harvard TH Chan School of Public Health, Boston, MA, United States.
11:45 PM–12:05 PM Noninvasive Screening of Fetal Anomalies: The Serum Metabolomic Way
Troisi J\(^{1,2,3}\), Sarno L\(^4\), Richards SM\(^{5,6}\), Symes SJ\(^{6,7}\), Adair DC\(^6\), Scala G\(^2\), Taylor RS\(^8\), McCowan LM\(^9\), Fasano A\(^{9,10}\), Guida M\(^{1,2}\).

1 Department of Medicine, Surgery, and Dentistry, Scuola Medica Salernitana, University of Salerno, Salerno, SA, Italy, 2 Theoreos srl–Spin-Off Company of the University of Salerno, Salerno, SA, Italy, 3 European Biomedical Research Institute of Salerno (EBRIS), Salerno, SA, Italy, 4 Department of Neurosciences, Reproductive, and Dentistry Sciences, University of Naples Federico II, Naples, NA, Italy, 5 Department of Biology, Geology and Environmental Sciences, University of Tennessee at Chattanooga, Chattanooga, TN, United States, 6 Department of Obstetrics and Gynecology, University of Tennessee, College of Medicine, Chattanooga, TN, United States, 7 Department of Chemistry and Physics, University of Tennessee at Chattanooga, Chattanooga, TN, United States, 8 Department of Obstetrics and Gynaecology, Faculty of Medical and Health Science, The University of Auckland, Auckland, NZ, New Zealand, 9 Harvard Medical School, Boston, MA, United States, 10 Mass General Hospital for Children, Department of Pediatrics, Basic, Clinical and Translational Research, Boston, MA, United States.

12:05 PM–1:30 PM Lunch on Your Own

12:05 PM –1:30 PM Past Presidents’ and Honorees’ Luncheon
(Invitation Only)

12:30 PM–1:30 AM Constitution and Bylaws Committee Meeting

12:30 PM–1:30 AM Membership Committee Meeting

1:30 PM–2:00 PM F. Clarke Fraser New Investigator Award
Cancer Risk in Children with Birth Defects: Developing a Research Program in the Epidemiology of Rare Complex Traits (L2)

Chairperson: Julia M. Gohlke, Virginia Polytechnic Institute and State University
Lecturer: Philip Lupo, Baylor College of Medicine

2:00 PM–2:30 PM James G. Wilson Publication Award
Genetic Vulnerabilities to Prenatal Alcohol Exposure: Limb Defects in Sonic Hedgehog and GLI2 Heterozygous Mice

Chairperson: Brian Enright, AbbVie Inc.
Lecturer: Eric W. Fish, University of North Carolina–Chapel Hill
2:35 PM–5:30 PM Organotypic Culture Models (OCMs) and Grand Ballroom D
Microphysiological Systems (MPS) for Human Development: New Platforms for Mechanistic Evaluation of Developmental Toxicity Symposium
Chairpersons: Brian Johnson, University of Wisconsin-Madison and Thomas B. Knudsen, National Center for Computational Toxicology, US EPA

2:35 PM–2:40 PM  Introduction

2:40 PM–3:15 PM  S1  An Engineered Organoid Culture Model That Incorporates Human Mesenchymal and Epithelial Cells to Model Palatal Fusion
Barbara D. Abbott, US Environmental Protection Agency

3:15 PM–3:45 PM  S2  Engineering an In Vitro and In Silico Model of Human Neural Tube Development for Analysis of Molecular Pathways
Randolph S. Ashton, University of Wisconsin

3:45 PM–4:15 PM  S3  Recapitulating Human Endocardial Cushion Morphogenesis with Organotypic Culture Models and Microfluidics
E. Sid Hunter, US Environmental Protection Agency

4:15 PM–4:30 PM  Break—Grand Ballroom Foyer

4:30 PM–5:00 PM  S4  Building an Integrated Fetal Organotypic Membrane on a Chip (IFMOC) for Predictive Toxicology
Kevin G. Osteen, Vanderbilt University School of Medicine

5:00 PM–5:30 PM  S5  Paracrine Sonic Hedgehog Gradients in a Microphysiological System for Predictive Toxicology
Brian Johnson, University of Wisconsin-Madison

2:35 PM–5:30 PM Current Topics and Updates for Pregnancy Waters Edge
Registries Workshop
Chairpersons: Christina D. Chambers, University of California–San Diego and Lewis B. Holmes, MassGeneral Hospital for Children

2:35 PM–2:55 PM  W1  Collecting Patient-Reported Data via a Mobile App for Studies of Pregnancy Exposures and Outcomes: A Pilot Study
Sascha Dublin, Kaiser Permanente Washington Health Research Institute

2:55 PM–3:15 PM  W2  Sample Size and Power Issues for Pregnancy Registries
Sonia Hernandez-Diaz, Harvard School of Public Health
Christina D. Chambers, University of California San Diego

3:35 PM–3:55 PM  W4  Recruitment in the Age of Social Media: A CRO Perspective
Nicole Hurst, Pharmaceutical Product Development, LLC

3:55 PM–4:15 PM  W5  To Count or Not Count: Cardiac Defects in Pregnancy Registries
Thieu Nguyen, Johns Hopkins All Children’s Heart Institute

4:15 PM–4:30 PM  Break—Grand Ballroom Foyer

4:30 PM–4:50 PM  W6  US Food and Drug Administration Updates
Leyla Sahin, US Food and Drug Administration

4:50 PM–5:05 PM  W7  Update from the United States Zika Pregnancy and Infant Registry
Baez-Santiago MA¹, Carr C¹, Ellington S¹, Jones AM¹, Fulton A¹, Reynolds M¹, Gilboa SM¹, Honein MA², USZPAIR Collaborators¹. ¹Division of Congenital and Developmental Disorders, National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Division of Congenital and Developmental Disorders, National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA, United States.

5:05 PM–5:20 PM  W8  High Prevalence of Selected Birth Defects in Ensenada Baja California, Mexico
Santos-Burgoa L¹, Pallares ME¹, Rosenthal J², Santos-Burgoa C³. ¹Departamento de Pediatría, Hospital General de Ensenada, Instituto de Salud, Ensenada, BC, Mexico, ²Division of Congenital and Developmental Disorders, National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Milken Institute School of Public Health, Department of Global Health, The George Washington University, Washington, DC, United States.

5:20 PM–5:30 PM  Discussion
5:35 PM–6:00 PM Patricia Rodier Mid-Career Award for Research and Mentoring
Assessing Addiction Risk in Rodents Following Perinatal Exposure to PCBs: Behavioral and Neurochemical Indicators
(Joint with DNTS)

Chairpersons: Julia M. Gohlke, Virginia Polytechnic Institute and State University and Michael T. Williams, Cincinnati Children’s Research Foundation

Lecturer: Helen J.K. Sable, University of Memphis

6:00 PM–7:30 PM Welcome Reception, Poster Session 1, and Exhibits Attended
(TJoint with DNTS)

Teratology Society Posters P1–P22
DNTS Posters 1–11

7:30 PM–8:00 PM New Member "Sundae" Night Social
(By Invitation Only)

Monday, June 25, 2018

7:00 AM–6:00 PM Registration Open

7:00 AM–8:00 AM Breakfast with the Teratology Mentors
(Advance Signup Is Required)

7:00 AM–8:00 AM Nominations and Elections Committee Meeting

7:00 AM–8:00 AM Publications Committee Meeting

7:00 AM–8:00 AM Science Committee Meeting

7:30 AM–8:00 AM Morning Coffee and Pastries
(Joint with DNTS)

8:00 AM–9:00 AM Keynote Lecture
Zika: Florida’s Experience Responding to an Emerging Public Health Threat (L3)
(Joint with DNTS)

Chairpersons: Dana L. Shuey, Incyte

Speaker: Celeste Philip, Florida Department of Health

9:05 AM–12:00 Noon Assessing the Lifelong Impacts of Prenatal and Early-Life Exposure to Air Pollution Symposium
(Joint with DNTS)

Chairpersons: Natalie Johnson, Texas A&M School of Public Health and Peter H. Langlois, Texas Department of State Health Services

9:05 AM–9:10 AM Introduction
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>9:10 AM–9:45 AM</td>
<td>S6</td>
<td>Using Birth Defects Registries to Identify Developmental Toxicants in Air Pollution</td>
<td>Amy Padula, University of California–San Francisco</td>
</tr>
<tr>
<td>9:45 AM–10:20 AM</td>
<td>S7</td>
<td>Effects of Ambient Ultrafine Particle Exposure on Brain Development and Behavior: Parallels with Neurodevelopmental Disorders</td>
<td>Deborah Cory-Slechta, University of Rochester Medical School</td>
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<tr>
<td>10:20 AM–10:35 AM</td>
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<td>Break</td>
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<tr>
<td>10:35 AM–11:10 AM</td>
<td>S8</td>
<td>Prenatal Air Pollution Exposure and Offspring Pulmonary Immunosupression</td>
<td>Natalie Johnson, Texas A&amp;M School of Public Health</td>
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<tr>
<td>11:10 AM–11:45 AM</td>
<td>S9</td>
<td>Genetic Susceptibility to Developmental PAH Exposure</td>
<td>Christine Perdan Curran, Northern Kentucky University</td>
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<tr>
<td>11:45 AM–12:00 Noon</td>
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<td>Discussion</td>
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<tr>
<td>9:05 AM–12:00 Noon</td>
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<td>Application of New Genomic Technologies in the Understanding of Birth Defects Symposium</td>
<td>Chairperson: Jan M. Friedman, University of British Columbia</td>
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<tr>
<td>9:05 AM–9:30 AM</td>
<td>S10</td>
<td>Introduction: Current Status of Genomic Testing to Identify Causes of Birth Defects</td>
<td>Jan M. Friedman, University of British Columbia</td>
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<tr>
<td>9:30 AM–10:00 AM</td>
<td>S11</td>
<td>Identifying Structural Variants and the Genes that Cause Birth Defects</td>
<td>Evan Eichler, University of Washington</td>
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<tr>
<td>10:00 AM–10:30 AM</td>
<td>S12</td>
<td>Mutations that Alter Splicing</td>
<td>Daniel MacArthur, The Broad Institute</td>
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<tr>
<td>10:30 AM–10:45 AM</td>
<td></td>
<td>Break</td>
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<tr>
<td>10:45 AM–11:15 AM</td>
<td>S13</td>
<td>Genomic Dark Matter: Regulatory Variants</td>
<td>Peter Robinson, The Jackson Laboratory for Genomic Medicine</td>
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<tr>
<td>11:15 AM–11:45 AM</td>
<td>S14</td>
<td>The Importance and Challenges of Data Sharing</td>
<td>Bartha M. Knoppers, McGill University</td>
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<tr>
<td>11:45 AM–12:00 Noon</td>
<td></td>
<td>Discussion</td>
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</table>
Platform Session 2  
Epidemiology: Pharmaceuticals

Chairpersons: Nelson Pace, Exponent, Inc. and Kary Ellen Thompson, Bristol-Myers Squibb

9:05 AM–9:15 AM  Introduction

9:15 AM–9:30 AM  9 Early Pregnancy Ondansetron Exposure and Risk of Structural Birth Defects  
Kirby R1, Zambelli-Weiner A2, Via C2, Yuen M2, Weiner D2. 1University of South Florida, Tampa, FL, United States, 2Translational Technologies International, Hampstead, MD, United States.

9:30 AM–9:45 AM  10 Ondansetron and the Risk of Congenital Malformations  
Huybrechts KF1, Hernandez-Diaz S2, Straub L1, Gray K3, Patorno E1, Desai R1, Mogun H1, Bateman B1,4. 1Division of Pharmacoepidemiology and Pharmacoeconomics, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, United States, 2Harvard TH Chan School of Public Health, Boston, MA, United States, 3Division of Maternal-Fetal Medicine, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, United States, 4Department of Anesthesiology, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, United States.

9:45 AM–10:00 AM  11 Maternal ADHD Medication Use during Pregnancy and the Risk of ADHD in Children  
Lemelin M1, Sheehy O2, Bérard A1,2. 1Faculty of Pharmacy, University of Montréal, Montréal, QC, Canada 2Research Center, CHU Sainte-Justine, Montréal, QC, Canada.

10:00 AM–10:15 AM  12 Evidence That Nevirapine Causes Harmful Fetal Effects  
Zash R1,2,3, Diseko M3, Mayondi G3, Mmalane M3, Makhema J3, Lockman S2,3,4, Holmes LB5, Shapiro RL2,3. 1Beth Israel Deaconess Medical Center, Boston, MA, United States, 2Harvard TH Chan School of Public Health, Boston, MA, United States, 3Botswana Harvard AIDS Institute Partnership, Gaborone, Gaborone, Botswana, 4Division of Infectious Diseases, Brigham and Women’s Hospital, Boston, MA, United States, 5MassGeneral Hospital for Children, Boston, MA, United States.
10:35 AM–12:00 Noon  When Does the Presence of Medication in Mothers Milk Become a Risk to the Child Workshop

Chairpersons: Melissa Sherman Tassinari, and Belen Tornesi, Abbvie Inc.

10:35 AM–10:40 AM  Introduction

10:40 AM–11:10 AM  W9 The More Chemicals, the Worse the Milk? Risks of Maternal Medications during Lactation
Jason Sauberan, Neonatal Research Institute

11:10 AM–11:40 AM  W10 Challenges and Successes in Running a Lactation Study
Marie Teil, UCB Farchim S.A.

11:40 AM–12:00 Noon  Discussion

12:00 Noon–1:30 PM  Lunch on Your Own

12:00 Noon–1:30 PM  BDR Editorial Board Meeting  Dolphin

12:00 Noon–1:30 PM  Building a Professional Scientific Presence Using Social Media Workshop
(Separate Registration Required, Boxed Lunch Provided)

Chairpersons: Elise M. Lewis, Charles River Laboratories, and Dinesh J. Stanislaus, GlaxoSmithKline

12:00 Noon–12:10 PM  Boxed Lunch Pick-Up

12:10 PM–12:40 PM  W11 Social Media for Scientists: Professional Networking and Creating Impact for Your Work
Paige Jarreau, FromTheLabBench

12:40 PM–1:30 PM  Discussion

1:30 PM–2:00 PM  Agnish Fellowship Lecture Causation (L4)

Chairperson: Julia Y. Hui, Celgene Corporation

Speaker: Anthony R. Scialli, Scialli Consulting LLC

2:05 PM–5:20 PM  Public Affairs Symposium Infectious Diseases during Pregnancy and Sequelae for the Mother and Baby

Chairpersons: Evi Struble, US Food and Drug Administration and Susan L. Makris, US Environmental Protection Agency

2:05 PM–2:10 PM  Introduction
Evi Struble, US Food and Drug Administration

2:10 PM–2:50 PM  S15 An Update on Zika Virus As a Cause of Birth Defects
Sonja A. Rasmussen, Centers for Disease Control and Prevention
2:50 PM–3:30 PM  S16  Vaccine Development to Prevent Congenital Cytomegalovirus Infection
Haruhiko Murata, US Food and Drug Administration

3:30 PM–3:45 PM  Break

3:45 PM–4:25 PM  S17  Parvovirus B19 Infection during Pregnancy: Are We Underestimating the Fetal Risks?
Asher Ornoy, Hebrew University Medical School

4:25 PM–4:45 PM  S18  Developing Safe and Effective Drugs for Viral Infections during Pregnancy: The US Food and Drug Administration Perspective
Yodit Belew, US Food and Drug Administration

4:45 PM–5:05 PM  S19  Regulatory Considerations for Developing Drugs for Use in Pregnant Women
Nneka McNeal-Jackson, US Food and Drug Administration

5:05 PM–5:20 PM  Discussion

(Joint with DNTS)
Chairpersons: Diana Dow-Edwards, SUNY Downstate Medical Center and Grace S. Lee, US Food and Drug Administration

2:05 PM–2:10 PM  Introduction

2:10 PM–2:45 PM  S20  Maternal and Child Health Impact of the US Prescription Opioid Epidemic: Combined Public Health–Clinical Response
Cheryl S. Broussard, Centers for Disease Control and Prevention

2:45 PM–3:20 PM  S21  Pharmacotherapy of Pregnant Women with Opioid Use Disorder
Hilary S. Connery, Harvard Medical School

3:20 PM–3:35 PM  Break

3:35 PM–4:10 PM  S22  Nonclinical Assessment of the Effects of Opioids on Development: Challenges and Limitations
Elizabeth A. Bolan, US Food and Drug Administration

4:10 PM–4:45 PM  S23  Nonopiate Treatment for Neonatal Abstinence Syndrome (NAS): Clinical and Preclinical Data
Henrietta S. Bada, University of Kentucky

4:45 PM–5:20 PM  S24  Opioid Effects in the Infant Brain: Animal-Human Correlation
Dusica Bajic, Harvard Medical School
2:05 PM–5:20 PM Platform Session 3
Investigative and Mechanistic Teratology

Chairpersons: Barbara F. Hales, McGill University and Linda G. Roberts

2:05 PM–2:20 PM Introduction

2:20 PM–2:35 PM 13 Preterm Birth and Heat Waves: Influence of the Spatial Resolution of the Exposure Estimate in Determining the Association
Wu YY1, Zaitchik BF2, Swarup S3, Gohlke JM1.
1Department of Population Health Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, 2Department of Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD, United States, 3Network Dynamics Simulation Science Laboratory, Biocomplexity Institute of Virginia Polytechnic Institute and State University, Blacksburg, VA, United States.

2:35 PM–2:50 PM 14 Arsenic Exposure Alters Folate Metabolism Causing Genomic Instability and Neural Tube Defects in a Dose-Dependent Manner
Lachenauer ER1, Kamynina E1, Krämer L2, DiRisio AC1, Stabler SP3, Brosnan ME4, Brosnan JT4, Hiller K2,5, Field MS1, Stover PJ1. 1Cornell University, Ithaca, NY, United States, 2Technische Universität Braunschweig, Braunschweig, Lower Saxony, Germany, 3University of Colorado, Aurora, CO, United States, 4Memorial University of Newfoundland, St. John’s, Newfoundland and Labrador, Canada, 5Helmholtz Centre for Infection Research, Braunschweig, Lower Saxony, Germany.

2:50 PM–3:05 PM 15 Repression of the Autophagy Gene AMBRA1 in the Developing Neuroepithelium Is a Novel Mechanism Underlying Diabetic Embryopathy
Chen X. University of Maryland School of Medicine, Baltimore, MD, United States.

3:05 PM–3:20 PM 16 Restoring BMP4 Expression in Vascular Endothelial Progenitors Ameliorates Maternal Diabetes-Induced Neural Tube Defects
Cao S. University of Maryland, Baltimore, MD, United States.

3:20 PM–3:35 PM Break
3:35 PM–3:50 PM 17 Tris(1,3-dichloro-2-propyl) Phosphate Exposure during Early-Blastula Alters the Normal Trajectory of Zebrafish Embryogenesis Dasgupta S¹, Cheng V², Vliet SM², Mitchell CA², Volz DC¹. ¹Department of Environmental Sciences, University of California, Riverside, CA, United States, ²Environmental Toxicology Graduate Program, University of California, Riverside, CA, United States.

3:50 PM–4:05 PM 18 Gene-Ethanol Interactions and Their Impact on Craniofacial Development Lovely CB¹,², Swartz ME², McCarthy N², Norrie J², Henegar T², Eberhart JK². ¹University of Louisville, Louisville, KY, United States, ²University of Texas at Austin, Austin, TX, United States.

4:05 PM–4:20 PM 19 Quaternary Ammonium Compounds Temporarily Alter the Gut Microbiome Hrubec T¹,², McDonald V³, Shan L¹, Luo X². ¹E. Via College of Osteopathic Medicine–Virginia Campus, Blacksburg, VA, United States, ²VA-MD College of Veterinary Medicine, Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, ³Department of Biological Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA, United States.

4:20 PM–4:35 PM 20 Maternal and Infant Genetic Variants in Folate, Homocysteine and Trans-Sulfuration Pathways, Folic Acid Supplementation and Risk of Congenital Heart Defects among Women Taking Selective Serotonin Reuptake Inhibitors during Pregnancy Nembhard WN¹, Tang X¹, Hu Z¹, MacLeod S¹, Stowe ZN², Webber D¹, National Birth Defects Prevention Study¹. ¹University of Arkansas for Medical Sciences, Little Rock, AR, United States, ²University of Wisconsin at Madison, Madison, WI, United States.

4:35 PM–4:50 PM 21 Epigenome-Wide Assessment Identifies Developmental Genes in Differentially Methylated Regions Associated with Hypospadias Lupo PJ¹, Brown AL¹, Ehli EA², Kallsen NA², Peyton SA², Davies GE², Patel A³, Zamilpa I³, Wyatt RA³, Hobbs CA³, Scheurer ME¹, Canon S³. ¹Baylor College of Medicine, Houston, TX, United States, ²Avera Institute for Human Genetics, Sioux Falls, SD, United States, ³University of Arkansas for Medical Sciences, Little Rock, AR, United States.
4:50 PM–5:05 PM  Copy Number Variants in Hypoplastic Right Heart Syndrome
Giannakou A¹, Sicko RJ², Kay DM², Zhang W², Romitti P³, Caggana M², Brody L⁴, Shaw GM⁵, Jelliffe L⁶, Mills JL¹. ¹Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, United States, ²New York State Department of Health, Albany, NY, United States, ³The University of Iowa, Iowa City, IA, United States, ⁴NHGRI, Bethesda, MD, United States, ⁵Stanford University, San Francisco, CA, United States, ⁶University of California, San Francisco, San Francisco, CA, United States.

5:05 PM–5:20 PM  The Syndrome of Proximal Femur, Fibula, and Midline Metatarsal Long Bone Deficiencies
Hootnick DR¹, Vargesson NA². ¹Departments of Orthopedics, Pediatrics, and Cell and Developmental Biology, SUNY Upstate Medical University, Syracuse, NY, United States, ²School of Medicine, Medical Sciences and Nutrition, Institute of Medical Sciences, University of Aberdeen, Aberdeen, Scotland, United Kingdom.

5:30 PM–7:00 PM  Poster Session 2 and Exhibits Attended
(Joint with DNTS)
Grand Ballroom E
Teratology Society Posters P23–P44
DNTS Posters 12–22

7:00 PM–9:30 PM  Teratology Society and MARTA Graduate Students and Postdoctoral Fellows Career Event
(Open to Teratology Society and DNTS Graduate Student and Postdoctoral Fellows)
Sandpiper Deck

Tuesday, June 26, 2018

7:00 AM–6:00 PM  Registration Open
Grand Ballroom Foyer

7:00 AM–8:00 AM  Communications Coordination Committee Meeting
Starfish

7:30 AM–8:00 AM  Morning Coffee and Pastries
(Join with DNTS)
Grand Ballroom Foyer

8:00 AM–9:00 AM  Robert L. Brent Lecture—Teratogen Update
Progress against Malaria: The Role of Antimalarial Drugs and Their Use in Pregnancy (L5)
Chairperson: Alan M. Hoberman, Charles River Laboratories
Lecturer: Robert L. Clark, Artemis Pharmaceutical Research
Grand Ballroom D
9:05 AM–12:00 Noon  The Teratology of Autism: An Update and Understanding from Different Perspectives Symposium (Joint with DNTS)
Chairpersons: Chris J Stodgell, University of Rochester and Susan L. Makris, US Environmental Protection Agency

9:05 AM–9:10 AM  Introduction

9:10 AM–9:45 AM  S25 Clinical Characteristics of Autism Spectrum Disorders  
Loisa Bennetto, University of Rochester

9:45 AM–10:20 AM  S26 Maternal Anxiety and Stress and Its Effect on Fetal and Childhood Development: An Extrapolation to Autism  
Thomas G. O’Connor, University of Rochester

10:20 AM–10:35 AM  Break

10:35 AM–11:10 AM  S27 Placental Development: Vascularization of the Placenta in Children with Autism  
Carolyn Margaret Salafia, Placental Analytics

11:10 AM–11:45 AM  S28 Animal Models of Autism  
Craig Powell, The University of Texas Southwestern Medical Center

11:45 AM–12:00 Noon  Discussion

9:05 AM–10:20 AM  Hot Topic Symposium Acetaminophen  
Chairpersons: Sarah Gloria Obićan, University of South Florida and Sonja A. Rasmussen, Centers for Disease Control and Prevention

9:05 AM–9:10 AM  Introduction

9:10 AM–9:30 AM  S29 Emerging Clinical Information on Acetaminophen  
Sarah Gloria Obićan, University of South Florida

9:30 AM–9:50 AM  S30 A Review of the Acetaminophen Preclinical Reproductive Toxicology and Postnatal Development Data: Old and New  
Graham P. Bailey, Janssen Pharmaceutica N.V.

9:50 AM–10:10 AM  S31 Fetal Risks of Maternal Fever in Pregnancy  
Christina D. Chambers, University of California–San Diego

10:10 AM–10:20 AM  Discussion

10:20 AM–10:35 AM  Break
10:35 AM–12:00 Noon  
Nongenetic Factors Causing Neural Tube Defects  
Grand Ballroom G

**Symposium**

*Chairpersons: Michael D. Collins, University of California–Los Angeles and Grace S. Lee, US Food and Drug Administration*

10:35 AM–10:40 AM  
**Introduction**

10:40 AM–11:20 AM  
S32 Neural Tube Defects: Causation, Embryonic Development, and a New Method for Primary Prevention  
*Andrew J. Copp, University College London Institute of Child Health*

11:20 AM–11:40 AM  
S33 Utilizing the Sea Urchin Gene Regulatory Network (GRN) As a Molecular Target to Detect the Mechanism of Valproic Acid Teratogenicity  
*Michael D. Collins, University of California–Los Angeles*

11:40 AM–12:00 Noon  
S34 Fumonisin B1 (FB1) and Fingolimod (FTY720): Tortilla Toxin and Oral Therapeutic Target Sphingolipid Pathways During Neural Tube Closure  
*Janee Gelineau-van Waes, Creighton University School of Medicine*

10:35 AM–11:50 AM  
Platform Session 4  
Clinical Teratology and Epidemiology  
Waters Edge

*Chairpersons: Russell S. Kirby, USF College of Public Health and Marie McKenzie, University of Georgia*

10:35 AM–10:50 AM  
**Introduction**

10:50 AM–11:05 AM  
24 An Increased Cephalic Index: A Fetal Effect of Valproic Acid, but Not Phenytoin, Phenobarbital, or Carbamazepine  
*Holmes LB¹, Hunt A-T², Stadelmaier R³, Deutsch C⁴, Adams J⁵. ¹MassGeneral Hospital for Children, Boston, MA, United States, ²Hunt Consulting Associates, Chapel Hill, NC, United States, ³Albert Einstein College of Medicine, Bronx, NY, United States, ⁴The Psychobiology Program at the Eunice Kennedy Shriver Center and Departments of Psychiatry and Pediatrics, University of Massachusetts Medical School, Worcester, MA, United States, ⁵Department of Psychology, UMass-Boston, Boston, MA, United States.*
11:05 AM–11:20 AM 25 The Impact of Technology on the Prevalence of Congenital Malformations
Straub L¹, Huybrechts KF¹, Bateman B¹,², Mogun H¹, Hernandez-Diaz S³. ¹Division of Pharmacoepidemiology and Pharmacoeconomics, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, United States, ²Department of Anesthesiology, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, United States, ³Harvard TH Chan School of Public Health, Boston, MA, United States.

Ospina ML¹, Mercado M², Galang RR³, Moore CA³, González M⁴, Valencia D⁴, Cuevas L⁴, Pacheco O⁴, Bermudez A⁵, Domínguez M³, Gilboa SM³, Rozo N⁴, Avila G⁴, Honein MA³, Prieto F⁴. ¹Dirección General, Instituto Nacional de Salud, Bogotá, Distrito Capital, Colombia, ²Dirección de Investigación en Salud Pública, Instituto Nacional de Salud, Bogotá, DC, Colombia, ³Division of Congenital and Developmental Disorders, National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Dirección de Vigilancia y Análisis de Riesgo en Salud Pública, Instituto Nacional de Salud, Bogotá, DC, Colombia, ⁵Dirección de Redes en Salud Pública, Instituto Nacional de Salud, Bogotá, DC, Colombia.

11:35 AM–11:50 AM 27 Surface Physical Examinations in Resource-Limited Settings: Setting the Standard for Baseline Malformation Rate
Nasri H, Holmes LB. MassGeneral Hospital for Children, Boston, MA, United States.

12:00 Noon–1:00 PM Teratology Society and DNTS Leadership Meeting
Manatee

12:00 Noon–1:30 PM Lunch and Learn Mini Course
Role and Function of Placenta in Pregnancy (Separate Registration Required)
Organized by the Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation
Waters Edge

12:00 Noon–12:10 PM Boxed Lunch Pick-Up
12:10 PM–12:55 PM  Roles of Placentae as an Anchor, Conduit and Controller during Pregnancy: Implications across Species
   Richard K. Miller, University of Rochester Medical Center

12:55 PM–1:30 PM  Human Placenta Models for Reproductive Toxicology: Primary Human Trophoblasts, Microdevices, and Systems-Based Approaches
   Joshua F. Robinson, University of California–San Francisco

12:00 Noon–1:30 PM  Lunch on Your Own

1:30 PM–4:30 PM  Epigenetic Effects of Environmental Exposures during Pregnancy Symposium
   Grand Ballroom D
   Chairpersons: Barbara R. Hales, McGill University and Kembra L. Howdeshell, National Institute of Environmental Health Sciences

1:30 PM–1:45 PM  Introduction

1:45 PM–2:15 PM  S35  Placental Epi/Genomics As Sensors of the In Utero Environment and Predictors of Fetal Development
   Jia Chen, Mt. Sinai School of Medicine

2:15 PM–2:45 PM  S36  Epigenetic Impact of Prenatal Exposure to Bisphenol A and Polycyclic Aromatic Hydrocarbons: Sex Differences and Effects on Neuroplasticity
   Frances A. Champagne, University of Texas–Austin

2:45 PM–3:15 PM  S37  Transgenerational Inheritance of Neurobehavioral and Physiological Deficits from Developmental Exposure to Benzo[a]Pyrene in Zebrafish
   Robert L. Tanguay, Oregon State University

3:15 PM–3:30 PM  Break

3:30 PM–4:00 PM  S38  Molecular Effects of Prenatal Phthalate Exposures on the Epigenome, Childhood BMI, and Obesity
   Nina T. Holland, University of California–Berkeley

4:00 PM–4:30 PM  S39  Transgenerational Placental Dysfunction As a Consequence of Paternal Developmental Toxicant Exposure in a Mouse Model
   Kaylon L. Bruner-Tran, Vanderbilt University School of Medicine
Rare Childhood Diseases and Unmet Medical Needs: The Hope of Innovative Therapies Symposium

Chairperson: Kenneth Lyons Jones, UCSD, CA MotherToBaby and Elise Madison Lewis, Charles River Laboratories

1:30 PM–1:55 PM  Introduction
Kenneth Lyons Jones, UCSD, CA MotherToBaby

1:55 PM–2:30 PM  S40 Treating Rare Diseases with Nonplacebo Sugar Pills
Hudson H. Freeze, Sanford Burnham Prebys Medical Discovery Institute

2:30 PM–3:05 PM  S41 The Rare Disease Parent’s Role in Scientific Collaboration
Cristina Might, NGLY1.org

3:05 PM–3:20 PM  Break

3:20 PM–3:55 PM  S42 Natural History, Clinical Studies, and Therapeutic Options in Barth Syndrome
Hilary Vernon, Johns Hopkins University School of Medicine

3:55 PM–4:30 PM  S43 The Use of Animal Models for Nonclinical Development of Therapeutics for Orphan Diseases
Lorraine Sullivan, BioMarin Pharmaceutical Inc.

4:35 PM–6:00 PM  Multidisciplinary Research Needs Workshop
Grand Ballroom D
Chairpersons: Peter H. Langlois, Texas Department of State Health Services and William Slikker Jr., National Center For Toxicological Research, US FDA

6:00 PM–7:30 PM  Poster Session 3 and Exhibits Attended
Grand Ballroom E
Teratology Society Posters P45–P76

Wednesday, June 27, 2018

6:30 AM–7:30 AM  Teratology Society 37th Annual Volleyball Game
Beach

7:30 AM–2:30 PM  Registration Open
Grand Ballroom Foyer

7:30 AM–8:00 AM  Morning Coffee and Pastries (Joint with DNTS)
Grand Ballroom Foyer
8:00 AM–9:00 AM Teratology Society and European Teratology Society Grand Ballroom D Exchange Lecture
Are We Ready for Alternative Testing? (L6)
Chairpersons: Paul C. Barrow, F. Hoffmann-La Roche Ltd. and Susan L. Makris, US Environmental Protection Agency

European Teratology Society
Manon Beekhuijzen, Charles River Laboratories

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

9:05 AM–12:00 Noon March of Dimes Symposium Grand Ballroom D
Measuring Success in Prevention of Adverse Pregnancy Outcomes
Chairpersons: Jan M. Friedman, University of British Columbia and Godfrey P. Oakley Jr., Emory University

9:05 AM–9:15 AM Introduction
Godfrey P. Oakley Jr., Emory University

9:15 AM–9:40 AM S44 Prematurity Prevention
Claudia Holzman, Michigan State University

9:40 AM–10:05 AM S45 Measuring the Impact of Maternal Vaccination to Prevent Adverse Pregnancy Outcomes
Sonja A. Rasmussen, Centers for Disease Control and Prevention

10:05 AM–10:30 AM S46 A 2017 Global Update on Folic Acid-Preventable Spina Bifida and Anencephaly
Vijaya Kancherla, Emory University

10:30 AM–11:00 AM Warkany Tea

11:00 AM–11:25 AM S47 Prevention and FASD: What Can the Clinician Do to Reduce the Prevalence of FASD?
Albert E. Chudley, University of Manitoba

Tamara Johnson, US Food and Drug Administration

11:50 AM–12:00 Noon Discussion
9:05 AM–12:00 Noon  Changing Susceptibilities throughout Embryofetal Waters Edge Development Symposium

Chairpersons: Katerine Saili, US Environmental Protection Agency and Mary Alice Smith, University of Georgia

9:05 AM–9:10 AM  Introduction

9:10 AM–9:50 AM  S49 Formation of the Blood-Brain Barrier and Susceptibilities to Toxicants
Katerine Saili, US Environmental Protection Agency

9:50 AM–10:30 AM  S50 Leveraging Organ-on-a-Chip Technology to Study the Human Placenta
Cassidy Blundell, University of Pennsylvania

10:30 AM–11:00 AM  Warkany Tea

11:00 AM–11:30 AM  S51 Changes in the Developing Gastro-Intestinal Tract: Impacts on Exposure and Susceptibilities
John M. DeSesso, Exponent, Inc.

11:30 AM–12:00 Noon  S52 Changes in Susceptibility of the Developing Fetus to Infections: Listeriosis As an Example
Mary Alice Smith, University of Georgia

10:30 AM–11:00 AM  Warkany Tea
(Joint with DNTS)

12:00 Noon–1:30 PM  Lunch on Your Own

12:30 PM–1:30 PM  Awards Committee Meeting  Coral

12:30 PM–1:30 PM  Education Committee Meeting  Dolphin

12:30 PM–1:30 PM  Finance Committee Meeting  Manatee

12:30 PM–1:30 PM  Public Affairs Committee Meeting  Starfish

12:30 PM–1:30 PM  Student Affairs Committee Meeting  Tarpon

1:30 PM–4:30 PM  Wiley Symposium  Grand Ballroom D
Evaluating the Developmental Reproductive Effects of Botanical Supplements

Chairperson: Natasha Catlin, Pfizer, Inc. and Kembra L. Howdeshell, National Institute of Environmental Health Sciences

1:30 PM–1:35 PM  Introduction

James S. McLay, University of Aberdeen
2:15 PM–2:55 PM  S54  Assessing Lead Exposure Risk from Botanicals: Ayurvedics As a Case Study
   Mary L. Hixon, Gradient

2:55 PM–3:10 PM  Break

3:10 PM–3:50 PM  S55  National Toxicology Program on Botanicals: Case Studies Evaluating Developmental and Reproductive Toxicity in Animal Models
   Kristen Ryan, National Toxicology Program

3:50 PM–4:30 PM  S56  In Vitro Methods to Evaluate Safety of Botanicals on Reproductive Health
   Karen M. VanderMolen, The Procter and Gamble Company

1:30 PM–4:30 PM  HESI Symposium  Grand Ballroom G
   Neonatal Pediatric Drug Development: From Bench to Bedside
   Chairpersons: Connie L. Chen, ILSI Health and Environmental Sciences Institute and Luc M. De Schaepdrijver, Janssen Research and Development

1:30 PM–1:35 PM   Introduction

1:35 PM–2:15 PM  S57  Drug Development for Neonatal Disease: Setting the Stage
   Luc M. De Schaepdrijver, Janssen Research and Development

   Michelle Ehrlich, Mount Sinai School of Medicine

2:55 PM–3:10 PM  Break

3:10 PM–3:50 PM  S59  Clinical Dosing and Pharmacokinetics Considerations for Neonatal Abstinence Disease Treatment
   Walter K. Kraft, Thomas Jefferson University

3:50 PM–4:30 PM  S60  Pharmacokinetics in Nonclinical Models and Translation to the Clinic: Challenges and Future Directions
   Pieter Annaert, KU Leuven
4:35 PM–6:30 PM  Annual Meeting Awards Presentation and Business Meeting
Student and Postdoctoral Fellow Travel Awards
James C. Bradford Memorial Student Poster Awards
Wilson Presentation Awards
Edward W. Carney Trainee Awards
Marie Taubeneck Award
Teratology Society Innovator Award
*Birth Defects Research* Distinguished Scholar Awards
Edward W. Carney Distinguished Service Award
Recognition of Other Awards Presented throughout the Week
Annual Business Meeting

7:30 PM–9:30 PM  Closing Celebration

Thursday, June 28, 2018

7:00 AM–10:00 AM  Council 2 Meeting