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

**Friday, June 22, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>3:00 PM–6:00 PM</td>
<td>Registration Open</td>
<td>Grand Ballroom Foyer</td>
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**Saturday, June 23, 2018**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30 AM–6:00 PM</td>
<td>Registration Open</td>
<td>Grand Ballroom Foyer</td>
</tr>
<tr>
<td>8:00 AM–8:30 AM</td>
<td>Education Course Coffee and Pastries (Education Course Session 1 Registrants Only)</td>
<td>Grand Ballroom D</td>
</tr>
<tr>
<td>8:30 AM–12:00 Noon</td>
<td>Education Course Session 1 (Separate Registration Required)</td>
<td>Grand Ballroom D</td>
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<tr>
<td></td>
<td>Embryology and Development of Central Nervous System: From Prenatal Period to Adolescence</td>
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**Organized by the Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:30 AM–8:40 AM</td>
<td>Welcome Teratology Society President, Alan M. Hoberman, Charles River Laboratories</td>
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<tr>
<td>8:40 AM–8:45 AM</td>
<td>Course Overview Education Committee Chairperson, Julia Y. Hui, Celgene Corporation</td>
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</tr>
<tr>
<td>8:45 AM–9:30 AM</td>
<td>Embryology/Morphological Development of Central Nervous System in Human John M. DeSesso, Exponent, Inc.</td>
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<tr>
<td>9:30 AM–10:15 AM</td>
<td>Development of Central Nervous System: Differences/Comparisons in Mammalian Species Christine Charvet, Cornell University</td>
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</tr>
<tr>
<td>10:15 AM–10:30 AM</td>
<td>Break</td>
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</tr>
<tr>
<td>10:30 AM–11:15 AM</td>
<td>Pre- and Postnatal Development and Assessment of Central Nervous System Functions in Human and Animals Gregg D. Stanwood, Florida State University</td>
<td></td>
</tr>
<tr>
<td>11:15 AM–12:00 Noon</td>
<td>Susceptibility to Disruptions of Normal Central Nervous System Development by Toxicants and Other Factors Christine Perdan Curran, Northern Kentucky University</td>
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<tr>
<td>Time</td>
<td>Event Description</td>
<td>Location</td>
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<tr>
<td>12:00 Noon–1:30 PM</td>
<td>Lunch on Your Own</td>
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<tr>
<td>1:30 PM–5:00 PM</td>
<td>Education Course Session 2</td>
<td>Grand Ballroom D</td>
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<td></td>
<td>Assessment and Management of Developmental Effects on the Central Nervous System:</td>
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<td>From the Molecular Level to the Clinical Setting</td>
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<td>(Separate Registration Required)</td>
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<td>Organized by the Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation</td>
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<tr>
<td>1:30 PM–1:35 PM</td>
<td>Course Overview</td>
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<td></td>
<td>Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation</td>
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<tr>
<td>1:35 PM–2:20 PM</td>
<td>Brain Extracellular Space: A Molecular Highway for Cell Communication in Development</td>
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<td>Sabina Hrabetova, SUNY Downstate Medical Center</td>
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<tr>
<td>2:20 PM–3:05 PM</td>
<td>Developmental Neurotoxicity: In Vivo Preclinical Assessment and Models of Disease</td>
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<td></td>
<td>Ellen McGlinchey, Charles River</td>
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<tr>
<td>3:05 PM–3:20 PM</td>
<td>Break</td>
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<tr>
<td>3:20 PM–4:05 PM</td>
<td>Developmental Neurotoxicology: The Continuum from In Vivo to In Vitro and Alternate Approaches</td>
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<td>William Slikker Jr., US Food and Drug Administration</td>
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<tr>
<td>4:05 PM–4:50 PM</td>
<td>Clinical Assessments and Management of Developmental Effects on the Central Nervous System</td>
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<td>Claire D. Coles, Emory University School of Medicine</td>
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<tr>
<td>4:50 PM–5:00 PM</td>
<td>Discussion</td>
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<tr>
<td>5:30 PM–7:30 PM</td>
<td>Student and Postdoctoral Fellow Mixer</td>
<td>Tommy’s Tiki Bar</td>
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<tr>
<td>6:30 PM–9:00 PM</td>
<td>Council 1 Meeting</td>
<td>Waters Edge</td>
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<td></td>
<td>Committee Reports</td>
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<tr>
<td>Sunday, June 24, 2018</td>
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<tr>
<td>7:00 AM–6:00 PM</td>
<td>Registration Open</td>
<td>Grand Ballroom Foyer</td>
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<tr>
<td>7:00 AM–8:00 AM</td>
<td>2019 Program Committee Meeting</td>
<td>Waters Edge A</td>
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<tr>
<td>7:30 AM–8:00 AM</td>
<td>Morning Coffee and Pastries (Joint with DNTS)</td>
<td>Grand Ballroom Foyer</td>
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<tr>
<td>8:00 AM–8:15 AM</td>
<td>President’s Welcome</td>
<td>Grand Ballroom D</td>
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<td></td>
<td>Teratology Society President, Alan M. Hoberman, Charles River Laboratories</td>
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<tr>
<td>Time</td>
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<tr>
<td>8:15 AM–9:00 AM</td>
<td>Josef Warkany Lecture&lt;br&gt;The Arrogance of Teratology (L1)&lt;br&gt;(Joint with DNTS)</td>
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<td>Chairperson: Alan M. Hoberman, Charles River Laboratories&lt;br&gt;Lecturer: John M. DeSesso, Exponent, Inc.</td>
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<tr>
<td>9:05 AM–12:05 PM</td>
<td>Graduate Student and Postdoctoral Fellow&lt;br&gt;Platform Session 1</td>
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<td>Organized by the Student Affairs Committee&lt;br&gt;Chairperson: Dinesh J. Stanislaus, GlaxoSmithKline</td>
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<td>Presenting author is underlined.</td>
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<tr>
<td>9:05 AM–9:10 AM</td>
<td>Introduction&lt;br&gt;Dinesh J. Stanislaus, GlaxoSmithKline</td>
<td></td>
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<tr>
<td>9:10 AM–9:30 AM</td>
<td>1 A Mechanistic Agent-Based Model for Brain Angiogenesis and Developmental Neurovascular Toxicity&lt;br&gt;Zurlinden TJ&lt;sup&gt;1&lt;/sup&gt;, Saili KS&lt;sup&gt;1&lt;/sup&gt;, Spencer RS&lt;sup&gt;2&lt;/sup&gt;, Baker NC&lt;sup&gt;3&lt;/sup&gt;, Knudsen TB&lt;sup&gt;1&lt;/sup&gt;. 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.</td>
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<tr>
<td>9:30 AM–9:50 AM</td>
<td>2 Transcriptomic Profiling of Flame Retardant Exposures in Human Embryonic Stem Cell Neural Progenitors&lt;br&gt;Chen H, Iyer N, Yan CD, Robinson JF. University of California, San Francisco, San Francisco, CA, United States</td>
<td></td>
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<tr>
<td>9:50 AM–10:10 AM</td>
<td>3 Intrinsic and Ethanol-Enhanced Fetal DNA Damage and Neurodevelopmental Deficits in Brca1 Knockout Progeny Associated with Decreased Brain BRCA1 Levels&lt;br&gt;Drake DM&lt;sup&gt;1&lt;/sup&gt;, Or B&lt;sup&gt;2&lt;/sup&gt;, Wells PG&lt;sup&gt;2,3&lt;/sup&gt;. 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.</td>
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</tbody>
</table>
10:10 AM–10:30 AM  4  Transient Maternal Hypothyroidism Alters Neural Progenitors and Results in Abnormal Brain Development
**O'Shaughnessy KL¹,², Thomas SE¹,², Ford JL², Ford RL¹,², Gilbert ME².** ¹Oak Ridge Institute for Science Education (ORISE), Oak Ridge, TN, United States, ²US 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 S¹, Ding T¹, Wilson AJ¹, Dallas ML², Osteen KG², Bruner-Tran KL¹.** ¹Vanderbilt University Medical Center, Nashville, TN, United States, ²Vanderbilt University, Nashville, TN, United States.

11:05 AM–11:25 AM  6  Medically Assisted Reproduction and the Risk of Preterm Birth
**Gorgui J¹,², Sheehy O², Trasler J³, Fraser W⁴, Bérard A¹,².** ¹University of Montréal, Montréal, QC, Canada, ²CHU Sainte-Justine Research Center, Montréal, QC, Canada, ³McGill University, Montréal, QC, Canada, ⁴University of Sherbrooke, Sherbrooke, QC, Canada.

11:25 AM–11:45 PM  7  Surveillance of Microcephaly and Neurotropic Infections Using Healthcare Databases
**Messinger CJ¹,², He M³, Huybrechts KF², Bateman B³, Hernandez-Diaz S³.** ¹Harvard Medical School, Boston, Massachusetts, United States, ²Division of Pharmacoepidemiology and Pharmacoeconomics, Brigham and Women’s Hospital and Harvard Medical School, Boston, MA, United States, ³Harvard 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 J1,2,3, Sarno L4, Richards SM5,6, Symes SJ6,7, Adair DC6, Scala G2, Taylor RS8, McCowan LM9, Fasano A9,10, Martinelli P4, Guida M1,2.
1Department of Medicine, Surgery, and Dentistry, Scuola Medica Salernitana, University of Salerno, Salerno, SA, Italy, 2Theoreos srl–Spin-Off Company of the University of Salerno, Salerno, SA, Italy, 3European Biomedical Research Institute of Salerno (EBRIS), Salerno, SA, Italy, 4Department of Neurosciences, Reproductive, and Dentistry Sciences, University of Naples Federico II, Naples, NA, Italy, 5Department of Biology, Geology and Environmental Sciences, University of Tennessee at Chattanooga, Chattanooga, TN, United States, 6Department of Obstetrics and Gynecology, University of Tennessee, College of Medicine, Chattanooga, TN, United States, 7Department of Chemistry and Physics, University of Tennessee at Chattanooga, Chattanooga, TN, United States, 8Department of Obstetrics and Gynaecology, Faculty of Medical and Health Science, The University of Auckland, Auckland, NZ, New Zealand, 9Harvard Medical School, Boston, MA, United States, 10MassGeneral 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
(By 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
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<tr>
<th>Time</th>
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</table>
| 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

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<tbody>
<tr>
<td>2:35 PM–2:40 PM</td>
<td>Introduction</td>
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</table>
| 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** |

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<tr>
<th>Time</th>
<th>Session</th>
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| 2:35 PM–5:30 PM | **Current Topics and Updates for Pregnancy Registries Workshop**
  Chairpersons: Christina D. Chambers, University of California–San Diego and Lewis B. Holmes, MassGeneral Hospital for Children

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 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** |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tr>
<td>3:15 PM–3:35 PM</td>
<td>W3</td>
<td>Drugs in Breastmilk: Addition of a Human Breast Milk Tissue Repository Sample Collection and Associated Data Appended to a Set of US/Canadian Pregnancy Registries</td>
<td>Christina D. Chambers, University of California San Diego</td>
</tr>
<tr>
<td>3:35 PM–3:55 PM</td>
<td>W4</td>
<td>Recruitment in the Age of Social Media: A CRO Perspective</td>
<td>Nicole Hurst, Pharmaceutical Product Development, LLC</td>
</tr>
<tr>
<td>3:55 PM–4:15 PM</td>
<td>W5</td>
<td>To Count or Not Count: Cardiac Defects in Pregnancy Registries</td>
<td>Thieu Nguyen, Johns Hopkins All Children's Heart Institute</td>
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<td>4:15 PM–4:30 PM</td>
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<td>Break—Grand Ballroom Foyer</td>
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<tr>
<td>4:30 PM–4:50 PM</td>
<td>W6</td>
<td>US Food and Drug Administration Updates</td>
<td>Leyla Sahin, US Food and Drug Administration</td>
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<tr>
<td>4:50 PM–5:05 PM</td>
<td>W7</td>
<td>Update from the United States Zika Pregnancy and Infant Registry</td>
<td>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.</td>
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<tr>
<td>5:05 PM–5:20 PM</td>
<td>W8</td>
<td>High Prevalence of Selected Birth Defects in Ensenada Baja California, Mexico</td>
<td>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.</td>
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<tr>
<td>5:20 PM–5:30 PM</td>
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<td>Discussion</td>
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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
(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
Grand Ballroom Foyer

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

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

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

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

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

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

9:10 AM–9:45 AM  S6 Using Birth Defects Registries to Identify Developmental Toxicants in Air Pollution
Amy Padula, University of California–San Francisco
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<th>Speaker</th>
<th>Location</th>
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<tbody>
<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>
<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>
<td>Discussion</td>
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<tr>
<td>9:05 AM–12:00 Noon</td>
<td><strong>Application of New Genomic Technologies in the Understanding of Birth Defects Symposium</strong></td>
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<td>Chairperson: Jan M. Friedman, University of British Columbia</td>
<td>Grand Ballroom G</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>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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<td>11:45 AM–12:00 Noon</td>
<td>Discussion</td>
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<td>9:05 AM–10:15 AM</td>
<td><strong>Platform Session 2</strong> Epidemiology: Pharmaceuticals</td>
<td></td>
<td>Chairpersons: Nelson Pace, Exponent, Inc. and Kary Ellen Thompson, Bristol-Myers Squibb</td>
<td>Waters Edge</td>
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<td>9:05 AM–9:15 AM</td>
<td>Introduction</td>
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</table>
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 K², Patorno E¹, Desai R¹, Mogun H¹, Bateman B¹. 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. 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, Diseko M³, Mayondi G³, Mmalane M³, Makhema J³, Lockman S³, Holmes LB³, Shapiro RL². 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, 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**  
Dolphin

**12:00 Noon–1:30 PM**  
**Building a Professional Scientific Presence Using Social Media Workshop**  
Grand Ballroom D  
*(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)**  
Grand Ballroom D

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**  
Grand Ballroom D

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

Grand Ballroom G  
(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, 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.
Copy Number Variants in Hypoplastic Right Heart Syndrome

Giannakou A1, Sicko RJ2, Kay DM2, Zhang W1, 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.

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.

Poster Session 2 and Exhibits Attended (Joint with DNTS)

Grand Ballroom E

Teratology Society Posters P23–P44
DNTS Posters 12–21

Teratology Society and MARTA Graduate Student and Postdoctoral Fellow Career Event
(Open to Teratology Society and DNTS Graduate Student and Postdoctoral Fellows)

Sandpiper Deck

Tuesday, June 26, 2018

Registration Open
Grand Ballroom Foyer

Communications Coordination Committee Meeting
Starfish

Morning Coffee and Pastries
Grand Ballroom Foyer
(Joint with DNTS)

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
(Grand Ballroom D) (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 Topics Symposium
Acetaminophen
(Waters Edge)

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  |  Waters Edge

Clinical Teratology and Epidemiology

Chairpersons: Russell S. Kirby, USF College of Public Health and TBA

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 A⁴, Dominguez M⁵, 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–1:30 PM  Lunch and Learn Mini Course Waters Edge
   Role and Function of Placenta in Pregnancy
   (Separate Registration Required)
   Organized by the Education Committee, Chairperson, Julia Y. Hui, Celgene Corporation

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

12:10 PM–12:55 PM  Overview and Species Comparison of the Role of Placenta in Pregnancy
   Richard K. Miller, University of Rochester Medical Center
### 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*

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<td>1:30 PM–1:45 PM</td>
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<td>1:45 PM–2:15 PM</td>
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|                 | 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* |

### 1:30 PM–4:30 PM
**Rare Childhood Diseases and Unmet Medical Needs: The Waters Edge Hope of Innovative Therapies Symposium**

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

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<td><em>Kenneth Lyons Jones, UCSD, CA MotherToBaby</em></td>
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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 Use of Animal Models of Disease to Support Nonclinical Safety Programs in Rare Diseases  
*Lorraine Sullivan, BioMarin Pharmaceutical Inc.*

4:35 PM–6:00 PM  **Multidisciplinary Research Needs Workshop**  
*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  
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 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

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

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

11:25 AM–12:00 Noon  Discussion

Changing Susceptibilities throughout Embryofetal Development Symposium

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

9:05 AM–12:00 Noon

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  
(Join with DNTS)  
Grand Ballroom Foyer

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  
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

1:35 PM–2:15 PM  
S53  Herbal Products Use during Pregnancy: What, When, and Why?  
*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 ILSI HESI Symposium

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 Grand Ballroom D Business Meeting

Student and Postdoctoral Fellow Travel Awards
James C. Bradford Memorial Student Poster Awards
Wilson Presentation Awards
Edward W. Carney Trainee Award
Marie Taubeneck Award
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

7:00 AM–10:00 AM Council 2 Meeting Waters Edge

Thursday, June 28, 2018

7:30 PM–9:30 PM Closing Celebration Waters Edge