



***30th Annual Education Meeting
for Organization of Teratology
Information Specialists Members
and MotherToBaby Affiliates***

Grand Hyatt Denver

Denver, CO

June 24–June 27, 2017

Friday, June 23, 2017

5:00 PM–9:00 PM

OTIS BOARD OF DIRECTORS MEETING

MT. YALE

Presiding: *OTIS President: Stephen R. Braddock, Saint Louis University School of Medicine*

Saturday, June 24, 2017

7:15 AM–4:30 PM

**RSA FETAL ALCOHOL SPECTRUM
DISORDERS STUDY GROUP (FASDG)
SEPARATE REGISTRATION/FEE REQUIRED**

MEETING OFF-SITE

4:30 PM–6:30 PM

OTIS MEETING REGISTRATION

COLORADO A FOYER

5:00 PM–7:00 PM

OTIS RESEARCH TEAM MEETING
(OTIS Research Coordinators and Committee Members Only)
Presiding: *Margaret Adam, University of Washington and
Alicia Forinash, St. Louis College of Pharmacy*

MT. OXFORD

5:00 PM–5:05 PM

Welcome
Margaret Adam, University of Washington

5:05 PM–5:25 PM	Pregnancy Studies Update <i>Diana Johnson, University of California, San Diego</i>
5:25 PM–5:35 PM	Update on Motherisk Studies <i>Shinya Ito, The Hospital for Sick Children</i>
5:35 PM–5:45 PM	OTIS/ENTIS Collaboration <i>Christina D. Chambers, University of California San Diego</i>
5:45 PM–6:00 PM	Break
6:00 PM–6:10 PM	Visions for OTIS—Five Year Strategic Plan <i>Steve Braddock, Saint Louis University</i>
6:10 PM–6:20 PM	Texting/Chatting Quality Control Project <i>Christine Stallman, University of Arizona</i>
6:20 PM–6:30 PM	Conducting Studies on Selected Drugs with No Human Data <i>Gerald Briggs, MemorialCare Center for Women</i>
6:30 PM–6:40 PM	Overview of Drugs Used to Treat Hepatitis C <i>Alicia Forinash, St. Louis College of Pharmacy</i>
6:40 PM–6:50 PM	HRSA Update <i>Nicole Chavez, Nicole Greer, and Elizabeth Wasternack, OTIS National Office</i>
6:50 PM–7:00 PM	Wrap-Up <i>Margaret Adam, University of Washington and Alicia Forinash, St. Louis College of Pharmacy</i>

Sunday, June 25, 2017

7:00 AM–8:00 AM	OTIS MEETING PLANNING COMMITTEE MEETING Presiding: <i>Anna Pupco, The Hospital for Sick Children and Claire Coles, Emory University</i>	MT. YALE
8:00 AM–10:15 AM	OTIS MEETING REGISTRATION	COLORADO A FOYER
8:15 AM–9:00 AM	JOSEF WARKANY LECTURE (Joint with the Teratology Society and DNTS) Where You Live Matters: Why Do Poor Pregnancy Outcomes Differ by Geography and What Can We Do About It? <i>Chairperson: Sonja A. Rasmussen, Centers for Disease Control and Prevention Lecturer: Jose F. Cordero, University of Georgia</i>	ASPEN
9:00 AM–10:00 AM	THOMAS H. SHEPARD LECTURE (Joint with the Teratology Society) From the FAS to OTIS – A Long Strange Trip Introduction with President’s Welcome: <i>OTIS President: Stephen R. Braddock, Saint Louis University School of Medicine</i> <i>Lecturer: Buzz Chernoff, California Environmental Protection Agency (Retired)</i>	ASPEN

10:00 AM–10:15 AM	BREAK	
10:00 AM–10:30 AM	SPOUSE AND GUEST MEET-AND-GREET (Open to Teratology Society, DNTS, and OTIS Spouses and Guests)	MT. WILSON
10:15 AM–1:00 PM	GERALD G. BRIGGS RESEARCH SYMPOSIUM Anticoagulants and Neurodevelopmental Outcomes after SRI and Analgesic Use During Pregnancy Presiding: <i>Margaret Adam, University of Washington</i> <i>Alicia Forinash, St. Louis College of Pharmacy</i>	COLORADO A
10:15 AM–10:20 AM	Welcome <i>Alicia Forinash, St. Louis College of Pharmacy</i>	
10:20 AM–11:10 AM	New Oral Anticoagulants in Pregnancy: An “Old” Issue Resurfaces <i>Wee-Shian Chan, BC Women’s Hospital and Health Centre</i>	
11:10 AM–12:00 PM	The Relationships Between Gestational SRI Exposure, SRI Bioeffect, and Neurobehavioral Outcomes <i>Amy Salisbury, Brown University</i>	
12:00 PM–12:50 PM	The Opioid Epidemic and Impact of Prenatal Exposure on Child Development <i>Lynn Singer, Case Western Reserve University</i>	
12:50 PM–01:00 PM	Discussion	
1:00 PM–3:30 PM	LUNCH BREAK (LUNCH ON YOUR OWN)	
1:15 PM–2:00 PM	RESEARCH COMMITTEE MEETING (OTIS Research Committee Members Only) Presiding: <i>Margaret Adam, University of Washington</i> <i>Alicia Forinash, St. Louis College of Pharmacy</i>	MT. YALE
2:15 PM–3:15 PM	OTIS WEBSITE/MARKETING COMMITTEE MEETING Presiding: <i>Lori Wolfe, UNT Dept. of Biology Texas TIS</i>	MT. YALE
3:15 PM–3:35 PM	BREAK	
3:35 PM–6:30 PM	PREGNANCY REGISTRY UPDATES SYMPOSIUM (Joint with the Teratology Society) Chairpersons: <i>Christina D. Chambers, University of California San Diego and</i> <i>Lewis B. Holmes, MassGeneral Hospital for Children</i>	COLORADO A
3:35 PM–3:40 PM	Welcome and Introduction <i>Lewis B. Holmes, MassGeneral Hospital for Children</i>	
3:40 PM–4:00 PM	The Key Role of Social Media in Registry Recruitment <i>Nicole Chavez, Communications Consultant</i>	
4:00 PM–4:20 PM	“Drugs in Breast Milk:” Related Data in Pregnancy Registries <i>Shinya Ito, The Hospital for Sick Children</i>	
4:20 PM–4:35 PM	Break – Aspen Foyer	

- 4:35 PM–4:55 PM** **How to Interpret Different Findings for the Same Medication Across Pregnancy Registries: The Example of Keppra**
David Miller, UBC
- 4:55 PM–5:15 PM** **Incorporating Registry Data into the Label—Guidance for the PLRR**
Leyla Sahin, US Food and Drug Administration
- 5:15 PM–5:30 PM** **Defect Evaluation by Infant Photographs in a Multi-Center Pharmaceutical Clinical Trial**
Scheuerle AE¹, Kwon P², Joing M². ¹University of Texas Southwestern Medical Center, Dallas, TX, United States, ²NORA Therapeutics, Inc., Palo Alto, CA, United States
- 5:30 PM–5:45 PM** **Distribution by Week and Trimester of Onset among Pregnant Women, US Zika Pregnancy Registry, 2015–2016**
Khan S¹, Rice ME¹, Reynolds MR¹, Reagan-Steiner S¹, Brown CM⁵, Lee EH⁴, Ahmad N², Macdonald J³, Sommer JN², Smith LC², Honein MA¹. ¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²New York State Department of Health, Albany, NY, United States, ³Virginia Department of Health, Richmond, VA, United States, ⁴New York City Department of Health and Mental Hygiene, Queens, NY, United States, ⁵Massachusetts Department of Public Health, Boston, MA, United States.
- 5:45 PM–6:00 PM** **Prevalence of Small for Gestational Age and Preterm Birth Among Infants Born to Women with Laboratory Evidence of Possible Zika Virus Infection During Pregnancy, US Zika Pregnancy Registry, December 2015–December 2016**
Fleck-Derderian S¹, Jones AM¹, Simon EL¹, Newsome K¹, Lee EH², Ahmad N³, Dunn JE⁴, Smith LC³, White JL³, Honein MA¹. ¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²New York City Department of Health and Mental Hygiene, New York City, NY, United States, ³New York State Department of Health, Albany, NY, United States, ⁴Massachusetts Department of Public Health, Boston, MA, United States
- 6:00 PM–6:15 PM** **Pregnancy and Lactation Labeling Rule (PLLR) in Practice: More Human Observational Data Needed**
Wurst KE¹, Cunnington M³, Powell M², Lee TJ¹. ¹GlaxoSmithKline, Collegeville, PA, United States, ²GlaxoSmithKline, Research Triangle Park, NC, United States, ³GlaxoSmithKline, Stevenage, United Kingdom.
- 6:15 PM–6:30 PM** **Lactation Study Challenges and Solutions**
Hurst N¹, Covington D². ¹PPD, Inc., Morrisville, NC, United States, ²Evidera, Wilmington, NC, United States.

6:30 PM-7:00 PM **CELEBRATING THE LIFE OF THOMAS H. SHEPARD** **ASPEN**
(Joint with the Teratology Society)
Chairpersons: Sonja A. Rasmussen, Centers for Disease Control and Prevention and Stephen R. Braddock, Saint Louis University School of Medicine
Speakers: Elaine M. Faustman, University of Washington and Godfrey P. Oakley, Jr., Emory University

7:30 PM-9:30 PM **OTIS WELCOME RECEPTION** **OFF-SITE (EARL'S KITCHEN & BAR)**

Monday, June 26, 2017

7:00 AM-8:45 AM **OTIS EDUCATION/PUBLIC AFFAIRS COMMITTEE** **MT. WILSON MEETING**
Presiding: *Myla Ashfaq, The University of Texas Health Science Center At Houston*
Jennifer Lemons, The University of Texas Health Science Center At Houston

8:45 AM-9:15 AM **OTIS MEETING REGISTRATION** **COLORADO A FOYER**

9:00 AM-9:15 AM **BREAK**

9:15 AM-12:00 PM **RSA/FASD-SG, Teratology Society, OTIS, and** **ASPEN**
DNTS Exchange Symposium
Evaluation of Fetal Risk in the Context of Multiple Co-Exposures
(Joint with the Teratology Society, DNTS & RSA)
Chairpersons: Ludmila Bakhireva, University of New Mexico and Jeffrey R. Wozniak, University of Minnesota

9:15 AM-9:25 AM **Introduction: Methodological Challenges of Evaluating the Effect of Multiple Exposures**
Ludmila Bakhireva, University of New Mexico

9:25 AM-9:50 AM **Defining the Human Exposome**
Cynthia F. Bearer, University of Maryland

9:50 AM-10:15 AM **PK/PD Modelling for Multiple Exposures in Pregnancy**
Donald R. Mattison, Risk Sciences International

10:15 AM-10:40 AM **Networking Break—Aspen Foyer**

10:40 AM-11:05 AM **Alcohol and Nicotine-Induced Epigenetic Changes (miRNAs)**
Rajesh C. Miranda, Texas A&M Health Sciences Center

11:05 AM-11:30 AM **Epigenetic Changes Induced by Prenatal Nicotine and Cocaine Exposure**
Pradeep Bhide, Florida State University

11:30 AM-11:35 AM **Concluding Remarks**
Jeffrey R. Wozniak, University of Minnesota

11:35 AM-12 Noon **Panel Discussion**

12:00 Noon-1:30 PM **LUNCH BREAK (LUNCH ON YOUR OWN)**

12:15 PM–1:15 PM	OTIS BOARD OF DIRECTORS MEETING Committee Reports Presiding: <i>OTIS President: Stephen R. Braddock, Saint Louis University School of Medicine</i>	MT. WILSON
1:30 PM–4:50 PM	MARCH OF DIMES SYMPOSIUM The Complexities of Caring for the Pregnant and Lactating Patient with Chronic Inflammatory Disease: Maternal and Fetal Considerations (Joint with the Teratology Society) Chairpersons: <i>Christina D. Chambers, University of California–San Diego and Melissa S. Tassinari, Independent Consultant</i>	ASPEN
1:30 PM–1:35 PM	Introduction	
1:35 PM–1:55 PM	Overview: Complexity of Disease Management in Pregnancy and Lactation, Consequences of Chronic Disease Itself and Polypharmacy, Use of Asthma and Lupus As Examples <i>Megan E.B. Clowse, Duke University</i>	
1:55 PM–2:15 PM	Case Study: Asthma in Pregnancy <i>Jennifer A. Namazy, Scripps Clinic Mission Valley</i>	
2:15 PM–2:35 PM	Case Study: Lupus in Pregnancy <i>Megan E.B. Clowse, Duke University</i>	
2:35 PM–2:55 PM	Missing Data <i>Christine Stallman, University of Arizona, MotherToBaby Arizona</i>	
2:55 PM–3:15 PM	Long Term Effects of Maternal Factors on Child’s Risk for Autism and Other Neurodevelopmental Concerns <i>Irva Hertz-Picciotto, UC Davis MIND Institute</i>	
3:15 PM–3:35 PM	Chronic Maternal Immune Mediated Diseases and Their Treatments: How Do We Design Good Quality Studies to Evaluate Neurodevelopment in the Offspring? <i>Gail S. Ross, Cornell University</i>	
3:35 PM – 3:50 PM	Break – Aspen Foyer	
3:50 PM–4:10 PM	Lactation and Medications <i>Philip O. Anderson, University of California – San Diego</i>	
4:10 PM–4:30 PM	Pregnancy and Lactation Labeling Rule (PLLR): Placement of Human Data in Labeling <i>Tamara Johnson, US Food and Drug Administration</i>	
4:30 PM–4:50 PM	Panel Discussion	
5:30 PM–7:30 PM	POSTER SESSION 1 AND EXHIBITS OPEN (Joint with the Teratology Society and DNTS)	MT. SPORIS
6:30 PM–7:30 PM	OTIS MEMBERSHIP COMMITTEE MEETING Presiding: <i>Marsha Leen-Mitchell, MotherToBaby Utah and Mark Roth, Pregnancy Risk Network</i>	MT. YALE

7:30 PM – 10:00 PM

TS/MARTA STUDENT CAREER EVENT

CRYSTAL PEAK B

(Open to the Teratology Society, DNTS, and OTIS Student and Postdoctoral Fellows)

Tuesday, June 27, 2017

7:00 AM–7:45 AM

OTIS OCCUPATIONAL AND ENVIRONMENTAL
COMMITTEE MEETING

MT. YALE

Presiding: *Ginger Nichols, UConn Health*

7:45 AM–8:45 AM

OTIS/ENTIS RESEARCH CONSORTIUM
COMMITTEE MEETING

MT. WILSON

Presiding: *Christina D. Chambers, University of California San Diego*

8:00 AM–8:30 AM

OTIS MEETING REGISTRATION

COLORADO A FOYER

8:00 AM–9:00 AM

ROBERT L. BRENT LECTURE—TERATOGEN UPDATE
In Bed with the Devil: Recognizing Human Teratogenic Exposures
(Joint with the Teratology Society)

ASPEN

Chairperson: *Sonja A. Rasmussen, Centers for Disease Control and Prevention*
Speaker: *Jan M. Friedman, University of British Columbia*

9:00 AM–9:15 AM

BREAK

9:15 AM–11:00 AM

OTIS ABSTRACT SESSION

COLORADO A

Moderator: *Sharon Lavigne, University of Connecticut Health*

9:15 AM–9:25 AM

Drug Monitoring and Physiologically-Based Pharmacokinetic Modeling of Escitalopram in Breast Milk: Predicting Plasma Exposure in Breast-Feeding Infants.

Delaney S¹, Malik P², Takeuchi M³, Wong E⁴, Stefan C⁴, Edginton A², Colantonio D^{1,3}, Ito S^{1,3}. ¹University of Toronto, Toronto, Ontario, Canada ²University of Waterloo, Waterloo, Ontario, Canada ³Hospital for Sick Children, Toronto, Ontario, Canada, ⁴Centre for Addiction and Mental Health, Toronto, Ontario, Canada.

9:30 AM–9:40 AM

Child Neurodevelopment Following In-Utero Exposure to Pharmacotherapy for Inflammatory Bowel Disease.

Nulman I¹, Barrera M², Maxwell C³, Nguyen G⁴, ¹Division of Clinical Pharmacology and Toxicology, The Hospital for Sick Children, University of Toronto, Toronto, Ontario, Canada, ²Division of Psychology, The Hospital for Sick Children, University of Toronto, Toronto, Ontario, Canada, ³Maternal Foetal Medicine, Mount Sinai Hospital, University of Toronto, Toronto, Ontario Canada, ⁴Division of Gastroenterology, Mount Sinai Hospital, University of Toronto, Toronto, Ontario, Canada.

9:45 AM–9:55 AM

Quality Assurance Is Not Quality Control: Where does OTIS/MotherToBaby Fit In?

Wolfe L¹, ¹University of North Texas, Denton, Texas.

10:00 AM–10:15 AM

BREAK

- 10:15AM–10:25AM** **Teratogenicity of Second Generation Antiepileptic Drugs in EURAP Netherlands.**
TeWinkel B¹, Vorstenbosch S¹, Van Puijenbroek E,^{1,2}, ¹Netherlands Pharmacovigilance Centre Lareb, Goudsbloemvallei 7, 5237MH's Hertogenbosch, the Netherlands, ²PharmacoTherapy, Epidemiology and Economics, Groningen Research Institute of Pharmacy, University of Groningen, Antonius Deusinglaan 1, 9713 AV Groningen, The Netherlands.
- 10:30 AM–10:40 AM** **Tools to Facilitate Implementation of Clinical Guidance during CDC's Zika Virus Response.**
Polen K¹, Hillard C¹, Johnston E¹, Abercrombie J¹, Moore J¹, ¹Pregnancy and Birth Defects Task Force, 2016 Zika Virus Response, Centers for Disease Control and Prevention, Atlanta, Georgia.
- 10:45 AM–11:00 AM** Discussion of All
- 11:00 AM–11:15 AM** **BREAK**
- 11:15 AM–12:30 PM** **OTIS BUSINESS MEETING** **COLORADO A**
Presiding: *OTIS President: Stephen R. Braddock, Saint Louis University School of Medicine*
- 12:30 PM–12:45 PM** **BREAK**
- 12:45 PM–2:45 PM** **OTIS LUNCH BOX TRAINING SESSION** **COLORADO A**
Lactation and Medications: What's in that Milk?
Communicating benefits and risks to moms
Serving OTIS Members and MotherToBaby Affiliates
Presiding: *Myla Ashfaq, The University of Texas Health Science Center At Houston*
Jennifer Lemons, The University of Texas Health Science Center At Houston
- 12:45 PM – 12:50 PM** **Participants Select Lunch**
- 12:50 PM – 1:00 PM** **Welcome and Introduction**
Myla Ashfaq, The University of Texas Health Science Center At Houston
Jennifer Lemons, The University of Texas Health Science Center At Houston
- 1:00 PM- 1:25 PM** **Breastfeeding: Health Benefits to Mother and Baby**
Leyla Sahin, MD, FACOG, Division of Pediatric and Maternal Health, OND/CDER/FDA
- 1:25 PM – 2:05 PM** **Drug Use During Breastfeeding**
Philip O. Anderson, Pharm.D., FASHP, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences
- 2:05 PM – 2:40 PM** **Workshop on Exposure Counseling and Breastfeeding**
Bethany Kotlar, MPH, MotherToBaby Georgia, Emory University School of Medicine
- 2:40 PM – 2:45 PM** **Concluding Remarks**
Myla Ashfaq, The University of Texas Health Science Center At Houston
Jennifer Lemons, The University of Texas Health Science Center At Houston
- 2:45 PM–3:05 PM** **BREAK**

3:05 PM–5:30 PM

MARIJUANA AND CHILD DEVELOPMENT SYMPOSIUM

ASPEN

Joint with the Teratology Society and DNTS

Chairpersons: *Diana Dow-Edwards, SUNY/Downstate Medical Center*

Susan L. Makris, US Environmental Protection Agency

3:05 PM–3:10 PM

Introduction

Diana Dow-Edwards, SUNY/Downstate Medical Center

3:10 PM–3:35 PM

**Dynamic Changes in Endocannabinoid Signaling During Adolescence:
Implications for Substance Use and Psychopathology**

BJ Casey, Yale University

3:35 PM–4:00 PM

**Counseling Women About Prenatal Marijuana Use: Weeding through the
Data**

Torri D. Metz, University of Colorado–Denver

4:00 PM–4:15 PM

Break

4:15 PM–4:40 PM

Cannabis and the Adolescent Brain: What does the Evidence Say?

Joanna Jacobus, University of California–San Diego

4:40 PM–5:05 PM

**Cannabinoids for Treatment of Pediatric Epilepsy: The Hype and the
Evidence**

Amy R. Brooks-Kayal, University of Colorado–Denver

5:05 PM–5:30 PM

Cannabis Policy: Challenges and Future Directions

Susan R.B. Weiss, National Institute on Drug Abuse

5:30 PM

ADJOURN

Conflict of Interest Forms held by the Organization of Teratology Information
Specialists National Office