Teratology Society

50th Annual Meeting
June 26–30, 2010
This event has been accredited by the McGill Center for Continuing Health Professional Education.

Louisville
KENTUCKY
Marriott Louisville Downtown

23rd International Conference of the Organization of Teratology Information Specialists (OTIS)
June 26–29, 2010

and the

34th Annual Meeting of the Neurobehavioral Teratology Society (NBTS)
June 26–30, 2010
Teratology Society

50th Annual Meeting
June 26–30, 2010

Louisville KENTUCKY

Marriott Louisville Downtown

Program and Abstracts
Program Overview

FRIDAY, JUNE 25, 2010
3:00 PM–6:00 PM
Council I Meeting
4:00 PM–6:00 PM
Registration

SATURDAY, JUNE 26, 2010
7:00 AM–6:00 PM
Registration
7:30 AM–8:00 AM
Education Course: Coffee and Continental Breakfast
8:00 AM–11:30 AM
Education Course
Session I: Prenatal Drug Disposition and Teratogenesis
12:00 NOON–1:00 PM
E. Clarke Fraser and Distinguished Service Awards Committee Meeting
12:30 PM–5:30 PM
TS/OTIS Joint Pregnancy Registry Workshop
1:30 PM–4:45 PM
Education Course
Session II: Postnatal Drug Disposition and Teratogenesis
6:00 PM–8:00 PM
Student/Postdoctoral Fellow Mixer
6:30 PM–9:30 PM
Council IB Meeting and Committee Reports

SUNDAY, JUNE 27, 2010
8:00 AM–7:00 PM
Registration
8:00 AM–8:15 AM
President's Welcome
8:15 AM–9:15 AM
Josef Warkany Lecture
50 Years of Progress in Understanding the Causes of Three Common Birth Defects
9:15 AM–11:45 AM
Student/Postdoctoral Fellow Platform Session I
Wilson Presentation Award Competition
11:45 AM–12:00 NOON
Box Lunch Pick-Up
12:00 NOON–1:00 PM
TS/OTIS Joint Robert L. Brent Lecture
Ionizing Radiation Exposure to the Fetus and Infant from Medical Imaging: A Radiologist’s Perspective
1:00 PM–1:30 PM
E. Clarke Fraser Award
Gastrochisis: A Journey to Discover the Pieces of the Puzzle
1:30 PM–2:00 PM
James G. Wilson Publication Award
Regulations of Folate Receptor 1 Gene Expression in the Visceral Endoderm

MONDAY, JUNE 28, 2010
7:00 AM–8:00 AM
BDRF Editorial Board Meeting
7:30 AM–6:00 PM
Registration
8:00 AM–7:00 PM
Exhibit Hall Open
8:00 AM–9:00 AM
TS/OTIS Joint State of the Art Lecture
Palate Development: Molecular Perspectives and Current Understanding
9:15 AM–11:45 AM
TS/OTIS Joint Symposium
Reproductive Psychiatry
9:15 AM–11:45 AM
Platform Session II
Mechanisms and Models
11:45 AM–1:15 PM
Past Presidents’ Luncheon
11:45 AM–12:45 PM
Web Site Committee Meeting
1:15 PM–2:15 PM
TS/OTIS Joint Special Lecture
Human Teratogens: Update 2010
2:15 PM–5:00 PM
Update on Thalidomide Symposium
5:00 PM–7:00 PM
TS/OTIS Joint Poster Session and Exhibits Open
7:30 PM–9:30 PM
MARTA Student and Postdoctoral Fellow Career Event

TUESDAY, JUNE 29, 2010
7:00 AM–5:00 PM
Registration
7:00 AM–8:20 AM
Sunrise Mini Course
Imaging Tools for Structural and Functional Teratogenesis Analyses
8:00 AM–2:00 PM
Exhibit Hall Open
8:30 AM–9:15 AM
TS/OTIS Joint Special Lecture
Children’s Environmental Health: A Good Start Lasts a Lifetime
9:30 AM–12:00 NOON
March of Dimes/Public Affairs Committee Symposium
Herbal Supplement Usage during Pregnancy
9:30 AM–12:00 NOON
TS/OTIS Joint Symposium
Advancing Neurodevelopmental Evaluation in Children: An Interdisciplinary Approach
12:00 NOON–2:00 PM
TS/OTIS Joint Poster Session and Exhibits Open
2:00 PM–4:30 PM
Platform Session III
Hazard Assessment and Screening
2:00 PM–4:15 PM
TS/OTIS Joint Platform Session IV
Common Conditions in Pregnancy: Treatment of Mental Health and Asthma
4:45 PM–6:30 PM
50th Anniversary Meeting Celebration

WEDNESDAY, JUNE 30, 2010
6:30 AM–7:30 AM
Teratology Society XXIX Annual Volleyball Game
7:00 AM–8:00 AM
Public Affairs Committee Meeting
7:00 AM–8:00 AM
Student Affairs Committee Meeting
8:00 AM–2:00 PM
Registration
8:00 AM–10:30 AM
Platform Session V
Epidemiology and Clinical Studies
8:00 AM–10:30 AM
Wiley-Blackwell Symposium
Teratology Society: 50 Years Then to Now
10:30 AM–11:00 AM
Warkany Tea
11:00 AM–12:00 NOON
TS/OTIS Joint Update on the National Children’s Study/Panel
12:30 PM–1:30 PM
Education Committee Meeting
12:30 PM–1:30 PM
Membership Committee
1:30 PM–4:30 PM
ILSI HESI Symposium
21st Century Developmental Toxicology
4:30 PM–6:00 PM
Business Meeting and Reports from BDR Editors
6:30 PM–7:30 PM
Banquet Reception
7:30 PM–10:00 PM
Banquet

THURSDAY, JULY 1, 2010
7:00 AM–10:00 AM
Council II Meeting
## Teratology Society

### Officers (2009–2010)

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Term</th>
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<tbody>
<tr>
<td>President</td>
<td>BARBARA F. HALES</td>
<td>2009–2010</td>
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<tr>
<td>Vice President</td>
<td>JOHN M. ROGERS</td>
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<tr>
<td>Vice President Elect</td>
<td>JOHN M. GRAHAM</td>
<td>2009–2010</td>
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<tr>
<td>Past President</td>
<td>CHRISTINA D. CHAMBERS</td>
<td>2009–2010</td>
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<tr>
<td>Secretary</td>
<td>MARY ALICE SMITH</td>
<td>2009–2010</td>
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<tr>
<td>Treasurer</td>
<td>IDA M. WASHINGTON</td>
<td>2009–2010</td>
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<tr>
<td>Councilor</td>
<td>DANA L. SHUEY</td>
<td>2009–2010</td>
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<tr>
<td>Councilor</td>
<td>JANE ADAMS</td>
<td>2009–2010</td>
</tr>
<tr>
<td>Councilor</td>
<td>SONJA A. RASMUSSEN</td>
<td>2009–2010</td>
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### Past Presidents of the Society

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>J. WARKANY</td>
<td>1960–1961</td>
</tr>
<tr>
<td>E.C. FRASER</td>
<td>1962–1963</td>
</tr>
<tr>
<td>M.M. NELSON</td>
<td>1963–1964</td>
</tr>
<tr>
<td>R.A. SWINYARD</td>
<td>1964–1965</td>
</tr>
<tr>
<td>J.W. MONIE</td>
<td>1965–1966</td>
</tr>
<tr>
<td>S.Q. COHLAN</td>
<td>1965–1966</td>
</tr>
<tr>
<td>M.N. RUNNER</td>
<td>1966–1967</td>
</tr>
<tr>
<td>T.H. SHEPARD</td>
<td>1968–1969</td>
</tr>
<tr>
<td>J. LANGMAN</td>
<td>1970–1971</td>
</tr>
<tr>
<td>A. PRUZANSKY</td>
<td>1971–1972</td>
</tr>
<tr>
<td>D.G. TRASLER</td>
<td>1972–1973</td>
</tr>
<tr>
<td>E.M. JOHNSON</td>
<td>1974–1975</td>
</tr>
<tr>
<td>I.S. HURLEY</td>
<td>1975–1976</td>
</tr>
<tr>
<td>E.V. PERRIN</td>
<td>1977–1978</td>
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<tr>
<td>A.R. BEAUDOIN</td>
<td>1978–1979</td>
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<tr>
<td>R.M. HOAR</td>
<td>1979–1980</td>
</tr>
<tr>
<td>W.J. SCOTT, JR.</td>
<td>1981–1982</td>
</tr>
<tr>
<td>D.M. KOCHHAR</td>
<td>1982–1983</td>
</tr>
<tr>
<td>G.P. OAKLEY, JR.</td>
<td>1984–1985</td>
</tr>
<tr>
<td>L.B. HOLMES</td>
<td>1985–1986</td>
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<tr>
<td>A.G. HENDRICKX</td>
<td>1986–1987</td>
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<tr>
<td>M.S. CHRISTIAN</td>
<td>1988–1989</td>
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<tr>
<td>E.F. ZIMMERMAN</td>
<td>1989–1990</td>
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<tr>
<td>M. BARR, JR.</td>
<td>1992–1993</td>
</tr>
<tr>
<td>G.P. DASTON</td>
<td>1999–2000</td>
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<tr>
<td>J.M. FRIEDMAN</td>
<td>2001–2002</td>
</tr>
<tr>
<td>R.W. TYL</td>
<td>2003–2004</td>
</tr>
<tr>
<td>K.L. JONES</td>
<td>2004–2005</td>
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<tr>
<td>M.S. TASSINARI</td>
<td>2005–2006</td>
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<tr>
<td>E.M. FAUSTMAN</td>
<td>2006–2007</td>
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<tr>
<td>T.B. KNUDSEN</td>
<td>2007–2008</td>
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<td>C.D. CHAMBERS</td>
<td>2008–2009</td>
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### Headquarters Staff

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>TONIA M. MASSON</td>
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<td>HEIDI PRANGE</td>
<td>Director of Meetings</td>
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<td>Exhibits Manager</td>
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<thead>
<tr>
<th>Committees of the Teratology Society (2009–2010)</th>
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<tbody>
<tr>
<td><strong>50th Anniversary Planning Committee (Ad Hoc)</strong></td>
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### COMMITTEES (continued)

#### EDUCATION COMMITTEE

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#### EMBRYOLOGY COURSE COMMITTEE (Ad Hoc)

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#### FASEB REPRESENTATION

<table>
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<tr>
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#### FINANCE COMMITTEE

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<th>Tel.</th>
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<th>Email</th>
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<td>WEB SITE COMMITTEE</td>
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2010 Sustaining Members
(as of March 26, 2010)

PLATINUM
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SILVER
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2010 Annual Meeting Sponsors
(as of March 26, 2010)

The Teratology Society thanks the following Sponsors:

PLATINUM
Birth Defects Center, University of Louisville
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ILSI HESI Developmental and Reproductive Toxicology (DART) Technical Committee
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CONTRIBUTOR
Barbara D. Abbott, Ph.D.
Deborah K. Hansen, Ph.D.
Endo Pharmaceuticals
Merck Research Laboratories
Society of Toxicology
General Information

Registration
The Teratology Society Annual Meeting registration is located in the Marriott Ballroom Foyer.

Hours:  
Friday, 4:00 PM–6:00 PM  
Saturday, 7:00 AM–6:00 PM  
Sunday, 8:00 AM–7:00 PM  
Monday, 7:30 AM–6:00 PM  
Tuesday, 7:00 AM–5:00 PM  
Wednesday, 8:00 AM–2:00 PM

Hotel Map
To assist you in locating the hotel registration desk, meeting rooms, and Exhibit Hall there is a map of the Ballroom Level located on page 304.

Photography and Recording Policy
Photography, video, and/or audio recording of scientific presentations is prohibited without advance specific consent of the presenter(s)/author(s). Session Chairs are asked to strictly enforce this policy and individuals who do not comply will be asked to leave the session. In addition, cameras and recording devices are prohibited in the Exhibit Hall.

Teratology Society Annual Meeting registrants grant the Teratology Society permission to reproduce, copy, and publish photographs taken at the Annual Meeting unless written notification by the registrant, stating otherwise, is submitted to the Teratology Society headquarters office prior to the Annual Meeting or while registering on-site.

First Aid and Security
The Marriott Louisville Downtown has equipped each meeting room with a house phone for use in case of an emergency. If you need medical or security assistance pick up the house phone and dial 0, the hotel operator will connect you to the correct department.

Award/Lectures

Narsingh Agnish Fellowship
This award recognizes Narsingh Agnish’s contributions to the Teratology Society, and particularly the implementation of the Education Course. The Narsingh Agnish Fellowship facilitates the continuing participation of senior Teratology Society members at the Annual Meeting. The 2010 recipient of this award is Thomas H. Shepard, who will present on Saturday, June 26 at 1:30 PM.

Robert L. Brent Lecture
This award recognizes Robert L. Brent’s contributions to the Teratology Society, and particularly to the implementation of the “Teratogen Update.” The purpose of the Robert L. Brent Lecture is to facilitate the discussion of new and old teratogens during the Annual Meeting. The 2010 recipient of this award is Donald P. Frush, who will present on Sunday, June 27 at 12:00 NOON.

F. Clarke Fraser Award
This award honors F. Clarke Fraser, one of the founding members of the Teratology Society, for his many contributions to the field of developmental toxicology. This year’s award recipient is Marcia L. Feldkamp, who will present on Sunday, June 27 at 1:00 PM.

Distinguished Service Award
To coincide with our 50th Anniversary celebrations, the Teratology Society has established the Distinguished Service Award. This award honors an individual who has provided distinguished service to the Teratology Society. The first recipient of this award is F. Clarke Fraser. The award will be presented during the 50th Anniversary Meeting Celebration session on Tuesday, June 29 at 4:45 PM.

Josef Warkany Lecturer
This award recognizes Josef Warkany’s contributions to the Teratology Society. Dr. Warkany was the first person to demonstrate that exposures to environmental chemicals are responsible for production of congenital malformation. His early studies culminated in the formulation of the scientific principles of teratology. This award recognizes a scientist who has significantly contributed to the field of teratology over his/her career. This year’s lecture will be presented by Diana M. Juriloff, on Sunday, June 27 at 8:15 AM.
James G. Wilson Publication Award
This annual award is presented in recognition of the best paper accepted or published in the journal *Birth Defects Research*. The dual purpose of the award is to provide recognition to the authors of the best paper and to encourage authors trained in various disciplines to submit high quality papers to *Birth Defects Research*. The paper selected for this year's award is *Regulations of Folate Receptor 1 Gene Expression in the Visceral Endoderm*. J. Michael Salbaum will present the data on Sunday, June 27 at 1:30 PM.

James C. Bradford Memorial Student Poster Award
This is an award for the best poster presentation by a student at the annual meetings of the Teratology Society and Neurobehavioral Teratology Society (NBTS). It is jointly sponsored by the Middle Atlantic Reproduction and Teratology Association (MARTA) and sanofi-aventis. These awards are presented to awardees during the Banquet on Wednesday, June 30 at 7:30 PM.

Continuing Medical Education (CME)
The Teratology Society is offering a CME Program to clinicians and trainees for many of the scientific sessions held during the 50th Annual Meeting. The CME Program is available on the Teratology Society Web site at www.teratology.org.

This is the Society's third year offering CME credits in an effort to broaden the audience at our scientific sessions, while enhancing the professional development of clinicians who integrate the outcome of the research into everyday practice. Talks designated as part of the CME Program are identified by the CME icon in the agenda.

Teratology Society CME Program
This event is approved for up to 26 credits by the Center for Continuing Health Professional Education (CCHPE). The Center for CCHPE, Faculty of Medicine, McGill University is fully accredited by the Committee on Accreditation of Canadian Medical Schools and through the (CACMS) is accredited to award AMA PRA category 1 credits.

This event is an Accredited Group Learning Activity as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada.

Through a reciprocal agreement between the American Medical Association and the Royal College of Physicians and Surgeons of Canada, the Center for CCHPE, Faculty of Medicine, McGill University designates this activity for AMA PRA Category 1 credit(s) up to the maximum number of credit hours noted above.

Each physician should claim only those hours of credit that he/she actually spent at the educational activity.

Daily Breakdown on CME Credits
The following is the daily breakdown of credits available. Each attendee is responsible for claiming credit commensurate with the extent of your participation in the scientific activities.

- Saturday, June 26: 4 credits
- Sunday, June 27: 5.5 credits
- Monday, June 28: 7 credits
- Tuesday, June 29: 4.5 credits
- Wednesday, June 30: 5 credits

Required CME Program—Intent to Participate
Teratology Society Annual Meeting attendees who wish to receive CME credits must complete the CME participation form, which is available on-line on the Society's Web site and at the registration desk for on-site participants.

Required Daily Sign-In Sheets
Teratology Society Annual Meeting attendees who wish to receive CME credits are responsible for signing the attendance sheet each day of participation. The sign-in sheets will be located at the registration desk during registration hours. Only the current day's sign-in sheet will be available at the registration desk.

CME Certificates of Participation
Certificates of CME participation, based on the daily sign-in sheets, will be available at the registration desk. Attendees are required to state the number of CME credits they are claiming and sign the certificate prior to departure. Certificates will be issued until 2:00 PM on Wednesday, June 30. Certification of Continuing Medical Education credits is the responsibility of the attendee.

ACCME Accreditation

Disclosure of Faculty and Industry Relationships
In accordance with ACCME policy, all faculty members have signed a conflict of interest statement in which they have disclosed any significant financial interests or other relationships with industry relative to topics they will discuss at this program. At the beginning of the program, faculty members are expected to disclose any such information to participants. Such disclosure allows you to evaluate better the objectivity of the information presented in lectures. Please report on your evaluation form any undisclosed conflict of interest you perceive.
Highlights

Welcoming Reception

The Welcoming Reception will be held in the Marriott Ballroom I on Sunday, June 27 at 6:30 PM. The reception is open to registered attendees of the Teratology Society and NBTS Annual Meetings. Please wear your badge to gain entrance to the reception. This year the reception will feature a Silent Auction with certificates for local dining and attractions and much more! Come prepared to support the Teratology Society.

Exhibits

Exhibits will be open in Marriott Ballroom I to attendees Sunday evening through Tuesday afternoon featuring companies offering products and services relating to teratology. Scientific posters will be displayed in the Exhibit Hall and complimentary coffee breaks will take place in the hall Monday through Tuesday morning.

Exhibit Hall Hours:
- Sunday, 6:00 PM–8:00 PM
- Monday, 8:00 AM–7:00 PM
- Tuesday, 8:00 AM–2:00 PM

Poster Sessions

The Poster Sessions will be held in the Marriott Ballroom I on Monday, June 28 and Tuesday, June 29. The TS/NBTS/OTIS Joint Poster Session will take place on Monday. The posters for this session will be on display starting at 12:30 PM. The authors will be present for discussion from 5:00 PM–7:00 PM. The TS/NBTS Joint Poster Session will take place on Tuesday. The posters for this session will be on display starting at 8:00 AM. The authors will be present for discussion from 12:00 NOON–2:00 PM.

Celebrating 50 Years and More...

To celebrate 50 years of success, we offer a session on Tuesday afternoon full of history and honors, a look forward and a bit of levity as well. The session will begin with a tribute to Dr. Josef Warkany, a founder and first President of the Teratology Society, by the pediatrician, geneticist and Warkany historian, Dr. Vladmir Wertelecki. A second founder, Dr. James Wilson, will be celebrated in a talk by Dr. Robert Brent, a charter member of the Society, Past President and Dr. Wilson’s first graduate student. Then, Dr. F. Clarke Fraser, the third founder of the Society, will receive the first Teratology Society Distinguished Service Award. Having honored our history and all three of our founding fathers, we will then get a forward-looking perspective from our students and postdoctoral fellows—where they see the field and the Society heading in the coming decades. We will finish the session with a rousing game of Teratology Society Jeopardy. Students will be recruited to play this Q&A game based on the History of the Teratology Society. Answers to most questions will be found on displays and in events throughout the meeting—prizes will be offered. Rumor has it that a few door prizes will be given to attendees as well! You won’t want to miss this special session!

Banquet and Award Presentations

Plan to stay for the grand finale of the 50th Annual Meeting celebration on Wednesday, June 30—the Banquet. A reception (no host bar) will be held in the Marriott Ballroom Foyer beginning at 6:30 PM. Seating for dinner will begin at 7:30 PM in the Marriott Ballroom I. Join your colleagues in a celebratory champagne toast and dancing as this memorable year draws to a close.

The Banquet is included with your Teratology Society meeting registration. Tickets, which are distributed with your registration materials, are required for this event and are not transferable. Guest tickets can be purchased at the registration desk. Teratology Society Awards presented during the banquet are as follows:

- Travel Awards
- James C. Bradford Memorial Student Poster Award
- Wilson Presentation Award
- Marie Taubeck Award

XXIX Annual Volleyball Game

Come one, come all and join in the fun! The 29th Annual Volleyball Game is scheduled for Wednesday, June 30, from 6:30 AM–7:30 AM at the Baxter Jack’s Volleyball Club. This is an event that you will not want to miss. Stop by the registration desk for more information on how to participate in this match—it is free and open to all attendees. If you don’t play, come out and cheer!
Student/Postdoctoral Fellow Activities

Special events for student and postdoctoral attendees will occur throughout the Teratology Society meeting. These events were planned with you in mind and allow you to meet other students, postdoctoral fellows, and scientists in our field. The following special events are scheduled.

Saturday Mixer—Come get acquainted or reacquainted with your fellow student and postdoctoral attendees before the start of the meeting. Students and postdoctoral attendees are encouraged to meet at the Champions Sports Bar at 6:00 PM on Saturday, June 26.

Student and postdoctoral attendees should plan to gather in groups of at least 6 to redeem coupons for a free drink and appetizer for the group to share. Your coupon will be in your registration materials. The coupons are only good for Saturday evening.

Annual Volleyball Game—Come out and show the “seasoned players” how it is done! The 29th Annual Volleyball Game is scheduled for Wednesday, June 30, from 6:30 AM–7:30 AM. If you don’t play, come out and cheer!

Student/Postdoctoral Fellow Platform Session—Wilson Presentation Award Competition

This year’s Student/Postdoctoral Platform Session showcases the work of eight students and postdoctoral fellows. The participants in this session were selected by the Student Affairs Committee from submitted abstracts. The presenters in this session will compete for the Wilson Presentation Award. This award was established in honor of James G. Wilson, one of the founding members of the Teratology Society and recognizes the work of students and postdoctoral fellows in the field of teratology. It is awarded based on the content and quality of the oral presentations. The two award winners will be announced during the Society Banquet on Wednesday, June 30. Make plans to support the Society’s student and postdoctoral members by attending this session on Sunday, June 27 at 9:15 AM.

MARTA Student and Postdoctoral Fellow Career Event

Please be our guest for dinner, conversation, and networking at the Student/Postdoctoral Career Event on Monday, June 28, from 7:30 PM–9:30 PM. This popular event, hosted by the Middle Atlantic Reproduction and Teratology Association (MARTA), is for students and postdoctoral fellows attending the joint annual meetings of the Teratology Society, Neurobehavioral Teratology Society, and the Organization of Teratology Information Specialists. As you prepare for the next phase in your professional career, we offer you this opportunity to meet your fellow students and postdoctoral fellows and to interact with scientists from academia, government, and industry. This is also an opportunity for you to discuss your future and the various career paths available to you. This event has been overwhelmingly well received in the past and we hope to see you there.

While in Louisville

Conference Site

The Marriott Louisville Downtown is a smoke-free hotel featuring plush accommodations, Blu Italian Grille, Champions Sports Bar, and Starbucks Café. Located in the heart of downtown, the Louisville Marriott is adjacent to the 4th Street Live dining and entertainment district and within blocks of many of Louisville’s museums and attractions like the Muhammad Ali Center, Louisville Slugger Museum, Louisville Glassworks, and a short drive to Churchill Downs.

The hotel has a full service business center open 24 hours to hotel guests, full service concierge, 24-hour guest room dining, local restaurant delivery, laundry/dry cleaning services, coin operated laundry, newsstand and gift shop, indoor pool, and has a 24-hour complimentary fitness center, featuring cardiovascular equipment and free weights.

Stay Connected While You Travel

The Teratology Society appreciates how important it is for attendees to stay connected to daily responsibilities while attending the meeting. The Teratology Society will provide Internet Café which will be open during the posted registration hours. The hotel will provide complimentary wireless Internet access in the meeting registration area for attendees who bring their own computers. Stop by the Teratology Society registration desk to obtain the access information.

If you would like to access the Internet in your guest room, the Marriott Louisville Downtown offers high-speed wireless Internet access for a daily rate of $12.95.

Ground Transportation

The estimated one way taxi fare from the Louisville International Airport to the hotel is $20. Bus service is available for approximately $2.50 each way. If you will be arriving by train or bus, the Greyhound bus terminal is located .8 miles from the hotel while Louisville Union Station is .4 miles southwest.

Hotel Parking

The Marriott Louisville Downtown offers both self parking and valet parking. Self parking is offered at $21 per day and valet parking is $25 per day. Off-site parking is also available for $8 per day. All prices are subject to change.
Marriott Louisville Downtown Map

Second Floor
### Program Agenda

**FRIDAY, JUNE 25, 2010**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>3:00 PM–6:00 PM</td>
<td>COUNCIL IA MEETING—Skybox Meeting Room</td>
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<tr>
<td>4:00 PM–6:00 PM</td>
<td>REGISTRATION—Marriott Ballroom VI Foyer</td>
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**SATURDAY, JUNE 26, 2010**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 AM–6:00 PM</td>
<td>REGISTRATION—Marriott Ballroom VI Foyer</td>
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<tr>
<td>7:30 AM–8:00 AM</td>
<td>EDUCATION COURSE: COFFEE AND CONTINENTAL BREAKFAST—Marriott Ballroom VI</td>
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<tr>
<td>8:00 AM–11:30 AM</td>
<td>EDUCATION COURSE (Separate Registration Required)—Marriott Ballroom VI</td>
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**Session I: Prenatal Drug Disposition and Teratogenesis**

_Organized by the Education Committee, Chairperson, Louise M. Winn, Queen’s University_

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<th>Time</th>
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<tr>
<td>8:00 AM–8:10 AM</td>
<td>Welcome  [Online] Barbara F. Hales, Teratology Society President</td>
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<tr>
<td>8:10 AM–8:15 AM</td>
<td>Course Overview  [Online] Education Committee Chairperson, Louise M. Winn, Queen’s University</td>
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<tr>
<td>8:15 AM–9:00 AM</td>
<td>The Role of Biotransformation in Developmental Toxicology  [Online] Craig Harris, University of Michigan</td>
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<td>9:00 AM–9:45 AM</td>
<td>Stage- and Species-Specific Disposition of Toxicants during Pregnancy [Online] Edward W. Carney, The Dow Chemical Company</td>
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<td>9:45 AM–10:00 AM</td>
<td>Break</td>
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<tr>
<td>10:00 AM–10:45 AM</td>
<td>Prenatal Ontogeny and Capabilities of Phase I and Phase II Enzymes [Online] I. Steven Leeder, Children’s Mercy Hospitals and Clinics</td>
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<td>10:45 AM–11:30 AM</td>
<td>Repair Capabilities in the Embryo  [Online] Peter G. Wells, University of Toronto</td>
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<tr>
<td>11:30 AM–1:30 PM</td>
<td>LUNCH ON YOUR OWN</td>
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<tr>
<td>12:00 NOON–1:00 PM</td>
<td>F. CLARKE FRASER AND DISTINGUISHED SERVICE AWARDS</td>
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<td></td>
<td>COMMITTEE MEETING—Skybox Meeting Room</td>
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12:30 PM–5:30 PM  **TS/OTIS JOINT PREGNANCY REGISTRY WORKSHOP—Marriott Ballroom IX**

**Moderators:** Christina D. Chambers, University of California, San Diego and Lewis B. Holmes, MassGeneral Hospital For Children

12:30 PM–12:40 PM  **Introduction**

12:40 PM–1:10 PM  **W1**  
Classifying Birth Defects in Reproductive Research  
Lewis B. Holmes, MassGeneral Hospital for Children  

1:10 PM–1:30 PM  **W2**  
Methodological Challenges in Surveillance of Spontaneous Abortion As a Reproductive Health Endpoint  
David A. Savitz, Mt. Sinai School of Medicine

1:30 PM–1:50 PM  **W3**  
Studying Miscarriage Using Pregnancy Registries  
De-Kun Li, Kaiser Permanente Medical Group

1:50 PM–2:10 PM  **W4**  
Organizing Pregnancy Registries during an Emergency Response  
Ava Marie S. Conlin, Naval Health Research Center

2:10 PM–2:30 PM  **W5**  
The Vaccines and Medications in Pregnancy Surveillance System (VAMPSS): Launch of a New System for Post-Marketing Surveillance  
Christina Chambers, University of California, San Diego

2:30 PM–3:15 PM  **W8**  
Panel Discussion: FDA Pregnancy Registry Guidance Document Revisions  
Moderator: Melissa S. Tassinari, U.S. Food and Drug Administration

3:15 PM–3:30 PM  **W6**  
Universal Call Center for Medicine Use in Pregnancy  
Michael McDonagh, CKR Consulting

3:30 PM–3:45 PM  **Break**

3:45 PM–4:00 PM  **W7**  
Birth Defect Categorization Systems Employed by Pregnancy Registries  
Covington DL, McKain LR, Hurst N. Pharmaceutical Product Development Inc., Wilmington, NC, United States.

4:00 PM–4:15 PM  **W8**  
Pregnancy Drug Safety Labeling and Surveillance at the Time of Product Approval  
McKain LR, Covington DL. Pharmaceutical Product Development, Inc., Wilmington, NC, United States.

4:15 PM–4:30 PM  **W9**  
Comparative Safety of Topiramate during Pregnancy  
Hernandez-Diaz S1, Mittendorf R2, Holmes LB1, 1Harvard School of Public Health, Boston, MA, United States, 2Loyola University Chicago, Chicago, IL, United States, 3MassGeneral Hospital for Children, Boston, MA, United States.

4:30 PM–4:45 PM  **W10**  
UCB Antiepileptic Drug Pregnancy Registry  
Scheuerle A1, Harden C2, Alekar S1, Leppik P2, Montouris G2, 1Tesserne Genetics, Dallas, TX, United States, 2University of Miami School of Medicine, Miami, FL, United States, 3UCB, Inc., Raleigh, NC, United States, 4University of Minnesota, Minneapolis, MN, United States, 5Boston University School of Medicine and Boston Medical Center, Boston, MA, United States.
TERATOLOGY SOCIETY PROGRAM

4:45 PM–5:00 PM  W11  Medication Exposure in Pregnancy Risk Evaluation Program
Li DX1, Andreoli S1, Scott P2, Cheetham C3, Cooper W2, Davis R1, Dublin S1, Pawlaski P2, Raebel M2, Smith D2, Toh D2, 1Kaiser Permanente Northern California, Oakland, CA, United States, 2Meyers Primary Care Institute, Worcester, MA, United States, 3U.S. Food and Drug Administration, Silver Spring, MD, United States, 4Kaiser Permanente Southern California, Los Angeles, CA, United States, 5Vanderbilt University, School of Medicine, Vanderbilt University School of Medicine, United States, 6Kaiser Permanente Georgia, Atlanta, GA, United States, 7Group Health Center for Health Studies, Seattle, WA, United States, 8HealthPartners Research Foundation, Bloomington, MN, United States, 9Kaiser Permanente Colorado, Denver, CO, United States, 10Kaiser Permanente Northwest, Portland, OR, United States, 11Harvard Medical School and Harvard Pilgrim Health Care, Boston, MA, United States.

5:00 PM–5:30 PM  Poster Session
Posters WP1–WP4

1:30 PM–4:45 PM  EDUCATION COURSE (Separate Registration Required)—Marriott Ballroom VI

Session II: Postnatal Drug Disposition and Teratogenesis
Organized by the Education Committee, Chairperson, Louise M. Winn, Queen’s University

1:30 PM–1:45 PM  Narsingh Agnish Fellowship
Thomas H. Shepard, University of Washington

1:45 PM–2:15 PM  Lactational Transfer of Drugs
Sue Marty, The Dow Chemical Company

2:15 PM–3:00 PM  Postnatal Metabolic Systems
Ronald N. Hines, Medical College of Wisconsin

3:00 PM–3:15 PM  Break

3:15 PM–4:00 PM  Toxicity Profile Differences between Adults and Juveniles
Melissa J. Beck, WIL Research Laboratories, LLC

4:00 PM–4:45 PM  Environmental Influences
Carl L. Keen, University of California, Davis

6:00 PM–8:00 PM  STUDENT/POSTDOCTORAL FELLOW MIXER—Champions Sport Bar

6:30 PM–9:30 PM  COUNCIL IB MEETING AND COMMITTEE REPORTS—Skybox Meeting Room

SUNDAY, JUNE 27, 2010

8:00 AM–7:00 PM  REGISTRATION—Marriott Ballroom VI Foyer

8:00 AM–8:15 AM  PRESIDENT’S WELCOME—Marriott Ballroom VI

8:15 AM–9:15 AM  JOSEF WARKANY LECTURE—Marriott Ballroom VI
50 Years of Progress in Understanding the Causes of Three Common Birth Defects
Diana M. Juriloff, University of British Columbia

9:15 AM–11:45 AM  STUDENT/POSTDOCTORAL FELLOW PLATFORM SESSION I—Marriott Ballroom VI
Wilson Presentation Award Competition
Chairpersons: Meredith S. Rocca, Eli Lilly Pharmaceuticals, Jeffrey H. Charlap, Charles River and Jane F. Rasco, University of Alabama
Organized by the Student Affairs Committee

9:15 AM–9:30 AM  Introduction

9:30 AM–9:45 AM  1  Exposure of Organogenesis Stage Mouse Embryos to Hydroxyurea Induces Nuclear 4-hydroxy-2-nonenal Protein Adducts
Schluter AE1, Hales BF2, McGill University, Montreal, QC, Canada.
9:45 AM–10:00 AM  2  Maternal DNA Hypomethylation, Methionine Pathway Metabolites, Lifestyle Factors and Congenital Heart Defects
Chowdhury S., Cleves MA, MacLeod SL, Zhao W, Hobbs CA. University of Arkansas for Medical Sciences, Arkansas Children’s Hospital Research Institute, Little Rock, AR, United States.

10:00 AM–10:15 AM  3  A Toxicity Signature for Species-Specific Disruption of Embryonic Vasculogenesis Derived from ToxCast™ In Vitro Profiling Data

10:15 AM–10:30 AM  4  Exposure to 2-methyoxacetic Acid Induces Limb Malformations and Histone 4 Hyperacetylation In Vitro
Dayan C, Hales BF. McGill University, Montreal, QC, Canada.

10:30 AM–10:45 AM  Break

10:45 AM–11:00 AM  5  High-Throughput Screening of ToxCast™ Phase I Chemicals in an Embryonic Stem Cell Assay Reveals Potential Disruption of a Critical Developmental Signaling Pathway

11:00 AM–11:15 AM  6  Valproic Acid Disrupts Chondrocyte Differentiation and Increases Apoptosis In Vitro in Murine Limb buds
Paradis FI, Hales BF. McGill University, Montreal, QC, Canada.

11:15 AM–11:30 AM  7  Dissecting the Action of Bisphenol-A on Germline Maintenance Using C. elegans
Allard P, Colaiacovo M. Harvard Medical School, Genetics, Boston, MA, United States.

11:30 AM–11:45 AM  8  Transfer of Dendrimers in the Perfused Human Placental Lobule In Vitro: Prospects for Use As Drug Carriers during Pregnancy
Rinderknecht AL1, Menjoge AR1, Kannan RM2, Kim CJ2, Romero R2, Fardtina M1, Miller RK1. 1University of Rochester, Rochester, NY, United States, 2Wayne State University, Detroit, MI, United States, 3National Institute of Child Health and Human Development, Detroit, MI, United States.

11:45 AM–12:00 NOON  BOX LUNCH PICK-UP

12:00 NOON–1:00 PM  TS/OTIS JOINT ROBERT L. BRENTE LECTURE (A Box Lunch Session)—Marriott Ballroom VI
Ionizing Radiation Exposure to the Fetus and Infant from Medical Imaging: A Radiologist’s Perspective (L1)
Donald P. Frush, Duke University Medical Center

1:00 PM–1:30 PM  F. CLARKE FRASER AWARD—Marriott Ballroom VI
Gastrochisis: A Journey to Discover the Pieces of the Puzzle (L2)
Marcia L. Feldkamp, University of Utah

1:30 PM–2:00 PM  JAMES G. WILSON PUBLICATION AWARD—Marriott Ballroom VI
Regulations of Folate Receptor 1 Gene Expression in the Visceral Endoderm
J. Michael Salbaum, Pennington Biomedical Research Center
TERATOLOGY SOCIETY PROGRAM

2:00 PM–3:00 PM  TS/ETS JOINT EXCHANGE LECTURE—Marriott Ballroom VI
Pros and Cons of the Extended One-Generation Study Protocol
Teratology Society

The Cons of the Extended One-Generation Study Protocol (L3)
Paul M.D. Foster, National Institute of Environmental Health Sciences

European Teratology Society
The Extended One-Generation Reproduction Toxicity Study: Improving Hazard Assessment and Saving Animals? (L4)
Aldert H. Piersma, National Institute for Public Health and the Environment (RIVM), Bilthoven

3:00 PM–3:15 PM  BREAK

3:15 PM–5:45 PM  VITAMIN B₁₂ AND NEURAL TUBE DEFECTS: IS IT TIME TO FORTIFY FOOD WITH B₁₂
SYMPOSIUM—Marriott Ballroom VI
Chairperson: James L. Mills, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH

3:15 PM–3:40 PM  S1  Vitamin B₁₂ Deficiency and NTDs: Is There a Causal Relationship?
James L. Mills, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH

3:40 PM–4:05 PM  S2  Normal Vitamin B₁₂ Physiology, the Pathophysiology of B₁₂ Deficiency, and Their Relevance to Treatment and Fortification
Ralph Carmel, New York Methodist Hospital and Weill Medical College of Cornell University

4:05 PM–4:30 PM  S3  Should FDA Require Vitamin B₁₂ Fortification of Enriched Flour? Yes
Godfrey P. Oakley, Emory University

4:30 PM–4:55 PM  S4  Should We Fortify Food with B₁₂ Now? No
Ralph Green, University of California Davis Medical Center

4:55 PM–5:45 PM  Panel Discussion and Response to Questions from the Audience

6:00 PM–8:00 PM  TS/NBTS JOINT WELCOME RECEPTION AND EXHIBITS OPEN—Marriott Ballroom I
Silent Auction

MONDAY, JUNE 28, 2010

7:00 AM–8:00 AM  BDRB EDITORIAL BOARD MEETING—Filly Meeting Room

7:30 AM–6:00 PM  REGISTRATION—Marriott Ballroom VI Foyer

8:00 AM–7:00 PM  EXHIBIT HALL OPEN—Marriott Ballroom I

8:00 AM–9:00 AM  TS/OTIS JOINT STATE OF THE ART LECTURE—Marriott Ballroom VI
Palate Development: Molecular Perspectives and Current Understanding (L5)
Robert M. Greene, Director, Birth Defects Center, University of Louisville

9:00 AM–9:15 AM  BREAK

9:15 AM–11:45 AM  **TS/NBTS/OTIS JOINT SYMPOSIUM—Marriott Ballroom VI**

**Reproductive Psychiatry**

*Chairpersons: Katherine L. Wisner, University of Pittsburgh Medical Center and Adrienne Einarson, The Motherisk Program*

- **9:15 AM–9:20 AM**  
  **Introduction**  
  [G]  

- **9:20 AM–9:50 AM**  
  **S5**  
  Prenatal SRI Exposure: Where Does Neonatal Behavioral Syndrome End and Neurobehavioral Teratogenicity Begin?  
  [G]  
  Tim F. Oberlander, University of British Columbia

- **9:50 AM–10:20 AM**  
  **S6**  
  Messages from the Womb: Maternal Antidepressant Use and Fetal Neurobehavior  
  [G]  
  Amy L. Salisbury, Alpert Medical School of Brown University

- **10:20 AM–10:50 AM**  
  **S7**  
  An Update on Lithium Treatment during Pregnancy and Lactation  
  [G]  
  Adele C. Viguera, Neurological Institute, Cleveland Clinic

- **10:50 AM–11:20 AM**  
  **S8**  
  Effects of Developmental Exposure to Methylphenidate on Brain Areas Involved in Cognition, Motivated Behaviors, Appetite and Stress  
  [G]  
  Teresa Ann Milner, Weill Cornell Medical College

- **11:20 AM–11:45 AM**  
  **Discussion: How Do We Incorporate These Data into Human Risk Assessment?**  
  [G]  
  Katherine L. Wisner, University of Pittsburgh Medical Center

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9:15 AM–11:45 AM  **PLATFORM SESSION II—Marriott Ballroom VII**

**Mechanisms and Models**

*Chairpersons: Barbara D. Abbott, U.S. Environmental Protection Agency and Peter G. Wells, University of Toronto*

- **9:15 AM–9:30 AM**  
  **9**  
  Peroxisome Proliferator-Activated Receptor Alpha (PPARγ), Beta (PPARβ), and Gamma (PPARδ) Expression in Human Fetal Tissues  
  [G]  

- **9:30 AM–9:45 AM**  
  **10**  
  Modulation of Adenosine Receptor A, Signaling Results in Inhibition of Calvarial Ossification in Mice  
  [G]  
  Bishard PB, Gibbard A, Pagana JM, White TE. GlaxoSmithKline, King of Prussia, PA, United States.

- **9:45 AM–10:00 AM**  
  **11**  
  Akt1 Mediates Mammary Gland Growth and Development In Vivo  
  [G]  
  LaRocca J, Hixon M. Brown University, Providence, RI, United States.

- **10:00 AM–10:15 AM**  
  **12**  
  Role of Mitogen-Activating Protein Kinase Signaling in the Developmental Toxicity of Hydroxyurea  
  [G]  
  Banh S, Hales BF. McGill University, Montreal, QC, Canada.

- **10:15 AM–10:30 AM**  
  **13**  
  Ethanol Teratogenesis, Oxidative Stress and Protection by a Free Radical Spin Trapping Agent  
  [G]  
  Miller J, Wells PC, 1Department of Pharmacology and Toxicology, University of Toronto, Toronto, ON, Canada, 2Faculty of Pharmacy, University of Toronto, Toronto, ON, Canada.

- **10:30 AM–10:45 AM**  
  **14**  
  Advantages and Challenges of Dietary Developmental Toxicity Studies in the Rabbit  
  [G]  
  Rasoolpour RJ, Brooks KI, Saghir SA, Billington R, Carney EW. The Dow Chemical Company, Midland, MI, United States.

- **10:45 AM–11:00 AM**  
  **15**  
  Cigarette Smoke Exposure: Alterations in the Metabolome of the Gravid and Non-Gravid Mouse Uterus  
  [G]  
  Neal RE, Chen J, Birtiles T, Greene RM, Pisano MM, 1EOHS, SPHIS, University of Louisville, Louisville, KY, United States, 2Birth Defects Center, University of Louisville, Louisville, KY, United States.
11:00 AM–11:15 AM  16  Altered Liver Proteome Profiles in a Mouse Model of “Developmental” Cigarette Smoke Exposure
Canales L1, Chen J1, Birtles T1, Greene RM2, Pisano MM2, Neal R1,3,  
1University of Louisville, Louisville, KY, United States, 2Birth Defects Research Center, University of Louisville, Louisville, KY, United States.

11:15 AM–11:30 AM  17  Proteome Profiling of Mouse Embryonic Stem Cells to Define Markers for Cell Differentiation and Embryotoxicity
Osman A1,2, van Dartel DAM1,2, Zwart E1, Blokland M1, Pennings J4,  
1PIRSFA Utrecht University, Utrecht, Netherlands, 2RIVM Lab for Health Protection Research, Bilthoven, Netherlands, 3GRAT-NUTRIM-Maastricht University, Maastricht, Netherlands, 4IRAS-Utrecht University, Utrecht, Netherlands.

11:30 AM–11:45 AM  18  Development of a Computational (In Silico) Model of Ocular Teratogenesis
Sipes NS, Rauntree MR, Kleinstreuer NC, Dix DJ, Judson RS,  
Kavlock RJ, Swat M, Glazier JA, DeWoskin RS, Singh AV,  
Spencer RM, Knudsen Jr, NCCT, ORD, US EPA, Research Triangle Park, NC, United States, 2NCEA, ORD, US EPA, Research Triangle Park, NC, United States, 3Lockheed Martin, Research Triangle Park, NC, United States, 4The Biocomplexity Institute, Dept. of Physics, Indiana University, Bloomington, IN, United States.

11:45 AM–1:15 PM  LUNCH ON YOUR OWN

11:45 AM–1:15 PM  PAST PRESIDENTS’ LUNCHEON (By Invitation Only)—Bluegrass 1 Meeting Room

11:45 AM–12:45 PM  WEB SITE COMMITTEE MEETING—Filly Meeting Room

1:15 PM–2:15 PM  TS/OTIS JOINT SPECIAL LECTURE—Marriott Ballroom VI
Human Teratogens: Update 2010
Lewis B. Holmes, MassGeneral Hospital for Children

2:15 PM–5:00 PM  UPDATE ON THALIDOMIDE SYMPOSIUM—Marriott Ballroom VI
Chairperson: Lewis B. Holmes, MassGeneral Hospital for Children

2:15 PM–2:20 PM  Introduction
Lewis B. Holmes, MassGeneral Hospital for Children

2:20 PM–2:30 PM  Thalidomide Epidemic and the Founding of the Teratology Society
P. Clarke Fraser, McGill University

2:30 PM–3:15 PM  S9  Thalidomide Embryopathy: Ophthalmologic Findings and a Few Surprises
Marilyn Miller, University of Illinois College of Medicine

3:15 PM–3:30 PM  Break

3:30 PM–4:15 PM  S10  Recent Advances in Understanding the Developmental Basis of Phocomelia
Patrick Allard, Harvard Medical School

4:15 PM–5:00 PM  S11  Lessons Learned from the Thalidomide Epidemic and the Current Hypotheses of the Possible Mechanisms of Action
Trent Stephens, Idaho State University

5:00 PM–7:00 PM  TS/NBTS/OTIS JOINT POSTER SESSION AND EXHIBITS OPEN—Marriott Ballroom I
Teratology Society Posters: P1–P28A
NBTS Posters: 1–6
OTIS Posters: 1–11

7:30 PM–9:30 PM  MARTA STUDENT AND POSTDOCTORAL FELLOW CAREER EVENT—Bluegrass 1 Meeting Room
Open to TS/NBTS/OTIS Students and Postdoctoral Fellows
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<td>7:00 AM–5:00 PM</td>
<td>REGISTRATION—Marriott Ballroom VI Foyer</td>
<td>Marriott Ballroom VI Foyer</td>
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<tr>
<td>7:00 AM–8:20 AM</td>
<td>SUNRISE MINI COURSE (Separate Registration Required)—Marriott Ballroom VI</td>
<td>Marriott Ballroom VI</td>
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<td></td>
<td>Imaging Tools for Structural and Functional Teratogenesis Analyses</td>
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<tr>
<td>7:00 AM–7:40 AM</td>
<td>Imaging Tools for Structural Analysis</td>
<td>William Sikkink Jr., National Center for Toxilogical Research, U.S. FDA</td>
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<tr>
<td>7:40 AM–8:20 AM</td>
<td>Imaging Tools for Functional Analysis</td>
<td>Julia M. Stephen, University of New Mexico</td>
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<td>8:00 AM–2:00 PM</td>
<td>EXHIBIT HALL OPEN—Marriott Ballroom I</td>
<td>Marriott Ballroom I</td>
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<td>8:30 AM–9:15 AM</td>
<td>TS/NBTS/OTIS JOINT SPECIAL LECTURE—Marriott Ballroom VI</td>
<td>Marriott Ballroom VI</td>
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<td>Children’s Environmental Health: A Good Start Lasts a Lifetime</td>
<td>Linda S. Birnbaum, Director, National Institute of Environmental Health Sciences, NIH</td>
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<td>9:15 AM–9:30 AM</td>
<td>BREAK</td>
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<tr>
<td>9:30 AM–12:00 NOON</td>
<td>MARCH OF DIMES/PUBLIC AFFAIRS COMMITTEE SYMPOSIUM—Marriott Ballroom VI</td>
<td>Marriott Ballroom VI</td>
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<td></td>
<td>Herbal Supplement Usage during Pregnancy</td>
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<tr>
<td>9:30 AM–10:00 AM</td>
<td>S12 Herbal Usage during Pregnancy: Teratology Society White Paper</td>
<td>Richard K. Miller, University of Rochester Medical Center</td>
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<tr>
<td>10:00 AM–10:30 AM</td>
<td>S13 Herbal Preparations Usage and Pregnancy</td>
<td>Henry M. Hess, University of Rochester Medical Center</td>
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<tr>
<td>10:30 AM–11:00 AM</td>
<td>S14 Herbal Products: Are They What They Claim to Be?</td>
<td>William R. Obermeyer, ConsumerLab.com</td>
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<tr>
<td>11:00 AM–11:10 AM</td>
<td>S15 Herbal Drugs in Pregnancy: A Canadian Perspective</td>
<td>Gideon Koren, The Hospital for Sick Children</td>
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<tr>
<td>11:20 AM–11:30 AM</td>
<td>S17 Herbal Preparations: Are We at the Beginning of Regulations? The Situation in Europe and the Eastern Mediterranean Region</td>
<td>Asher Ornay, Hebrew University Hadassah Medical School and Israeli Ministry of Health</td>
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<tr>
<td>11:30 AM–12:00 NOON</td>
<td>Panel Discussion of Position Paper and Topic</td>
<td>Patricia M. Bittner, U.S. Consumer Product Safety Commission, Chair, Public Affairs Committee</td>
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9:30 AM–12:00 NOON  TS/NBTS JOINT SYMPOSIUM—Marriott Ballroom VII

Advancing Neurodevelopmental Evaluation in Children: An Interdisciplinary Approach
Chairperson: Susan Makris, U.S. Environmental Protection Agency and William Slikker, Jr., National Center for Toxicological Research, U.S. FDA

9:30 AM–9:55 AM  S18  The Use of Neurodevelopmental Data in Children for Risk Assessment of Environmental Chemicals
Susan Makris, U.S. Environmental Protection Agency

9:55 AM–10:20 AM  S19  A Multidisciplinary Approach to Advancing the Science of Neurodevelopmental Testing in Cohorts of Infants and Young Children
Judy S. LaKind, LaKind Associates, LLC

10:20 AM–10:45 AM  S20  Getting the Biggest Bang for Your Buck: Choosing Neurodevelopmental Tests That Maximize Power
Lauren Kenworthy, George Washington University School of Medicine

10:45 AM–11:10 AM  S21  Threats to Study Validity: The Flynn Effect, Examiner Drift, Confounders, Lost in Translation, and Other Important Considerations
Laura Gutermuth Anthony, George Washington University School of Medicine

11:10 AM–11:35 AM  S22  Weight-of-the-Evidence Assessment in Neurodevelopmental Epidemiology: A Plea for Consistency
Michael Goodman, Emory University

11:35 AM–12:00 NOON  Panel Discussion

12:00 NOON–2:00 PM  TS/NBTS JOINT POSTER SESSION AND EXHIBITS OPEN—Marriott Ballroom I

Teratology Society Posters: P29–P58
NBTS Posters: 7–11

2:00 PM–4:30 PM  PLATFORM SESSION III—Marriott Ballroom VI

Hazard Assessment and Screening
Chairpersons: Michael G. Narotsky, U.S. Environmental Protection Agency and Rochelle W. Tyl, RTI International

2:00 PM–2:15 PM  19  Effects of In Utero Exposure to Mono-2-ethylhexylphthalate (MEHP) on the Adult Female Mouse
Moyer BI, Hixon ML. Brown University, Providence, RI, United States.

2:15 PM–2:30 PM  20  Micro-CT and Alizarin Red Evaluations of Fetal Rat and Rabbit Skeletal Abnormalities Induced by All-Trans-Retinoic Acid
Wise LD, Xue D, Winkelmann CT. Toxicological Sciences, Merck Research Laboratories, West Point, PA, United States. Imaging Department, Merck Research Laboratories, West Point, PA, United States.

2:30 PM–2:45 PM  21  Effects of Bisphenol A and Diethylstilbestrol on the Adult Male Reproductive System Following Oral Administration to Pregnant C57Bl6 Mice on Gestational Days 10 through 16
Hixon ML, LaRocca J, Boyajian A, Brown C, Duncan Smith S. Brown University, Providence, RI, United States.

2:45 PM–3:00 PM  22  Gonadal Responses to Vinclozolin Administered Orally to Han Wistar Rats

3:00 PM–3:15 PM  Break

3:15 PM–3:30 PM  23  Maternal Diet Modulates the Rate of Neural Tube Defects in Diabetic Pregnancies  
  Kappen C, Kruger C, MacGowen J, Salbaum JM. Pennington Biomedical Research Center, Baton Rouge, LA, United States.

3:30 PM–3:45 PM  24  Mammary Gland Development As a Sensitive Indicator of Early Life Exposures: Recommendations from an Interdisciplinary Workshop  
  Fenton SE, Rueda RA, Euling SY, Makris SL. 1National Institute of Environmental Health Sciences, National Toxicology Program, Research Triangle Park, NC, United States, 2Silent Spring Institute, Newton, MA, United States, 3NCEA, U.S. EPA, Washington, DC, United States.

3:45 PM–4:00 PM  25  Assessment of Reproductive and Developmental Toxicity of Mixtures of Regulated Drinking Water Chlorination By-Products in a Multigenerational Rat Bioassay  

4:00 PM–4:15 PM  26  A Fishy Solution to Reproductive Toxicity Screening or Just a Red Herring? Zebrafish in Developmental Toxicity: Value within Pharmaceutical Development  

4:15 PM–4:30 PM  27  Establishment of a Statistical Prediction Model and Abbreviated Assay Design for Teratogenicity Screening of Compounds Using Rat Whole Embryo Culture  
  Zhang CXZ, Cao J, Panzica-Kelly JPK, Stock DS, Augustine-Rauch KAA. Bristol Myers Squibb, Pennington, NJ, United States.

2:00 PM–4:15 PM  TS/OTIS JOINT PLATFORM SESSION IV—Marriott Ballroom IX  

Common Conditions in Pregnancy: Treatment of Mental Health and Asthma  
Chairpersons: Ludmila Bakhireva, University of New Mexico and Myla Moretti, The Hospital For Sick Children

2:00 PM–2:15 PM  28  Patterns of Psychotropic Drug Use in Pregnancy and Lactation: The MotherSafe Experience 2000–2007  
  Eamus M, Oei F, Hill M, Taylor T, Kennedy D. 1School of Women's and Children's Health, University of NSW, Kensington, NSW, Australia, 2Dept. of Neonatology, Royal Hospital for Women, Randwick, NSW, Australia, 3MotherSafe, Royal Hospital for Women, Randwick, NSW, Australia.

2:15 PM–2:30 PM  29  Birth Defects, Preterm Birth and Intrauterine Growth in the Offspring of Women Prescribed Citalopram during Pregnancy  
  Colvin L, Slack-Smith L, Stanley FF, Bower C. 1Centre for Child Health Research, Telethon Institute for Child Health Research, The University of Western Australia, West Perth, Australia, 2School of Dentistry, The University of Western Australia, West Perth, Austria.

2:30 PM–2:45 PM  30  The Safety of Escitalopram in Pregnancy: A Prospective Cohort Study  
  Klieger-Grossmann C, Weitzner B, Einason T, Koren G, Einason A. 1The Motherisk Program, Division of Clinical Pharmacology and Toxicology, Department of Pediatrics, The Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, 2Faculty of Pharmacy, University of Toronto, Toronto, ON, Canada.
2:45 PM–3:00 PM  31  Neurodevelopment of Children Exposed In Utero to Venlafaxine: Preliminary Results  
Nakano F,1,2  Barrera M1,2  Pulver A1  Streiner D1,2  Feldman B1,3  Koren G1,2  1The Hospital for Sick Children, Toronto, ON, Canada  2The University of Toronto, Toronto, ON, Canada  3Baycrest Centre, Toronto, ON, Canada.

3:00 PM–3:15 PM  Break

Blais L1,2  Kettani F  Ducharme FM  Lemière C1,2  Beauchesne M-F  Béard A  1Université de Montréal, Montréal, QC, Canada  2Hôpital du Sacré-Cœur de Montréal, Montreál, QC, Canada  3CHU Ste-Justine, Montréál, QC, Canada.

3:30 PM–3:45 PM  33  Congenital Anomalies in Asthmatic Women Using Corticosteroids during Pregnancy: A Meta Analysis from Published Data  
Namazy IA  Murphy VE2,4  Powell H2,4  Gibson PG2,4  Chambers CD2  Schatz M1  1Scripps Clinic, San Diego, CA, United States  2University of Newcastle, Newcastle, NSW, Australia  3Hunter Medical Research Institute, Newcastle, NSW, Australia  4John Hunter Hospital, Newcastle, NSW, Australia  5University of California San Diego, La Jolla, CA, United States.

3:45 PM–4:00 PM  34  Risk of Perinatal Mortality Associated with the Use of Inhaled Corticosteroids for the Treatment of Asthma during Pregnancy  
Breton MCB  Beauchesne MFB2,4  Lemièvre CL  Rey ER  Amélie AF  Blais LB2  1Universite de Montreal, Montréal, QC, Canada  2Research Center, Hôpital du Sacré-Coeur de Montréal, Montréal, QC, Canada  3Obstetric and Gynecology Department, CHU Ste-Justine, Montreal, QC, Canada.

4:00 PM–4:15 PM  35  Perception of Teratogenicity among Pregnant Women with Asthma or Diabetes Mellitus  
Satrumo P  Liu S  Young BN  Phelan ST  Nawarskas J  Rayborn WF  Bakhireva LN  1University of New Mexico, College of Pharmacy, Albuquerque, NM, United States  2University of New Mexico, Department of Obstetrics and Gynecology, Albuquerque, NM, United States.

4:45 PM–6:30 PM  50th ANNIVERSARY MEETING CELEBRATION—Marriott Ballroom VI  
Chairpersons: Barbara F. Hales, McGill University and John M. Rogers, U.S. Environmental Protection Agency
Organized by the 50th Anniversary Planning Committee

4:45 PM–4:50 PM  Introduction  
John M. Rogers, U.S. Environmental Protection Agency

4:50 PM–5:10 PM  S23  Josef Warkany: Then and Now  
Wladimir Wertelecki, University of South Alabama

5:10 PM–5:30 PM  S24  James G. Wilson, Embryologist, Teratologist, Founding Member of the Teratology Society, Superb Researcher, Teacher and Human Being  
Robert L. Brent, Alfred I. duPont Hospital for Children

5:30 PM–5:45 PM  Distinguished Service Award  
Presented by Barbara F. Hales, McGill University and Terence R.S. Oztunis, Queen's University

5:45 PM–6:00 PM  Students’ Viewpoints on the Future of the Teratology Society

6:00 PM–6:30 PM  Let’s Play Jeopardy! History of the Teratology Society

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<th>Time</th>
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<tr>
<td>6:30 AM–7:30 AM</td>
<td>TERATOLOGY SOCIETY XXIX ANNUAL VOLLEYBALL GAME—Baxter Jack’s Volleyball Club</td>
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<td>7:00 AM–8:00 AM</td>
<td>PUBLIC AFFAIRS COMMITTEE MEETING—Skybox Meeting Room</td>
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<td>7:00 AM–8:00 AM</td>
<td>STUDENT AFFAIRS COMMITTEE MEETING—Filly Meeting Room</td>
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<td>8:00 AM–2:00 PM</td>
<td>REGISTRATION—Marriott Ballroom VI Foyer</td>
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<td>8:00 AM–10:30 AM</td>
<td>PLATFORM SESSION V—Marriott Ballroom IX</td>
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**Epidemiology and Clinical Studies**

Chairpersons: Sonja A. Rasmussen, Centers for Disease Control and Prevention and Robert Felix, University of California, San Diego

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<tr>
<td>8:00 AM–8:15 AM</td>
<td>Maternal Exposure to Venlafaxine and Risk for Birth Defects</td>
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<tr>
<td>8:15 AM–8:30 AM</td>
<td>Maternal Occupational Exposure to Organic Solvents and Congenital Heart Defects: Results from the National Birth Defects Prevention Study, 1997–2002</td>
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<tr>
<td>8:30 AM–8:45 AM</td>
<td>No Effect of Perchlorate on Serum Thyroxine for Pregnant Women with Low Urine Iodine</td>
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<tr>
<td>8:45 AM–9:00 AM</td>
<td>Genital Tract Infections during Pregnancy and the Risk of Selected Birth Defects</td>
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<tr>
<td>9:00 AM–9:15 AM</td>
<td>Maternal Plasma Folate, Dihydrofolate Reductase Genotype and Risk of Isolated Cleft Lip with or without Cleft Palate: Findings from a Population-Based Study</td>
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9:15 AM–9:30 AM  41  An Electronic Medical Record (EMR) System-Based Referral Facilitating Access to Teratogen Risk Counseling for Health Care Providers and Their Patients
Felix R1, Chambers CD2, Cobian V1, Prince L1, Kao K1, Alvarado S1, Jones KL1. 1University of California, San Diego, Department of Pediatrics, La Jolla, CA, United States; 2University of California, San Diego, Department of Family and Preventative Medicine, La Jolla, CA, United States.

9:30 AM–9:45 AM  42  The Contribution of Chromosomal Abnormalities to Congenital Heart Defects: A Population-Based Study
Hartman RP1,2, Rasmussen SA1, Richelle Colarusso T1, Botto LD1, Correa A1. 1National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA, United States; 2Oak Ridge Institute for Science and Education, Oak Ridge, TN, United States; 3Division of Medical Genetics, University of Utah, Salt Lake City, UT, United States.

9:45 AM–10:00 AM  43  Thalidomide Embryopathy Mimics Idiopathic Congenital Vascular and Skeletal Dysmorphologies
Hootnick DR. Upstate Medical University, Syracuse, NY, United States.

10:00 AM–10:15 AM  44  Factors Associated with the Occurrence of Vascular Disruption Defects and Their Relationship with Heavy Metals: Case-Control Study in Cali, Colombia (South America) 2007–2009

10:15 AM–10:30 AM  45  Maternal Dietary Fat Intake As a Potentially Preventable Cause of Gastrochisis
Jones KL1, Hagay LR1, Gonzalez V1, Benirschke K1, Chambers CD2. 1University of California, San Diego, Department of Pediatrics, La Jolla, CA, United States; 2University of California, San Diego, Department of Internal Medicine, La Jolla, CA, United States; 3University of California, San Diego, Department of Pathology, La Jolla, CA, United States; 4University of California, San Diego, Department of Family and Preventative Medicine, La Jolla, CA, United States.

8:00 AM–10:30 AM  WILEY-BLACKWELL SYMPOSIUM—Marriott Ballroom VI
Teratology Society: 50 Years Then to Now
Organized by the Publications Committee
Chairperson: Michael A. Schellpfeffer, Medical College of Wisconsin

8:00 AM–8:30 AM  S24  A Personal Perspective of Historical Events That Affected the Development and Maturation of the Society in the Past 50 Years
Robert L. Brent, Alfred I. duPont Hospital for Children

8:30 AM–9:15 AM  S25  Clinical Teratology
Kenneth Lyons Jones, CTIS

9:15 AM–10:00 AM  S26  Experimental Teratology: Scenes from the Last Fifty Years
William J. Scott, Jr., Cincinnati Children’s Hospital Medical Center

10:00 AM–10:30 AM  S27  Fast Forward to the Future: Where Will We Be?
Barbara F. Hales, McGill University

10:30 AM–11:00 AM  WARKANY TEA

11:00 AM–12:00 NOON  TS/NBTS JOINT UPDATE ON THE NATIONAL CHILDREN’S STUDY/ PANEL—Marriott Ballroom VI
Chairperson: Elaine M. Faustman, University of Washington
12:00 NOON–1:30 PM  LUNCH ON YOUR OWN

12:30 PM–1:30 PM  EDUCATION COMMITTEE MEETING—Filly Meeting Room

12:30 PM–1:30 PM  MEMBERSHIP COMMITTEE—Thoroughbred Meeting Room

1:30 PM–4:30 PM  ILSI HESI SYMPOSIUM—Marriott Ballroom VI

21st Century Developmental Toxicology
Chairpersons: Edward W. Carney, The Dow Chemical Company and George P. Daston, Procter & Gamble Company

1:30 PM–1:35 PM  Introduction
George P. Daston, Procter & Gamble Company

1:35 PM–2:00 PM  S28  Of Babies and Their Bathwater: Strengths to Maintain and Limitations to Overcome in Transitioning Developmental Toxicology to Meet 21st Century Needs
Edward W. Carney, The Dow Chemical Company

2:00 PM–2:30 PM  S29  Exposure Assessment in the 21st Century: Increased Reliance on Biomonitoring
Sean Hays, Summit Toxicology

2:30 PM–2:45 PM  Break

2:45 PM–3:15 PM  S30  Pathway Profiling and Tissue Modeling Using ToxCast™ HTS Data
Thomas B. Knudsen, National Center for Computational Toxicology

3:15 PM–3:45 PM  S31  Computational Toxicology: From Data to Analyses to Applications
Ivan Rusyn, University of North Carolina at Chapel Hill

3:45 PM–4:30 PM  S32  Future Strategies for Developmental Toxicity Safety Assessment
Thomas Hartung, Johns Hopkins University Center for Alternatives to Animal Testing

4:30 PM–6:00 PM  BUSINESS MEETING AND REPORTS FROM BDR EDITORS—Marriott Ballroom VI

6:30 PM–7:30 PM  BANQUET RECEPTION—Marriott Ballroom Foyer

7:30 PM–10:00 PM  BANQUET—Marriott Ballroom I

Travel Awards
James C. Bradford Memorial Student Poster Award
Wilson Presentation Awards
Marie Taubeneck Award

THURSDAY, JULY 1, 2010

7:00 AM–10:00 AM  COUNCIL II MEETING—Skybox Meeting Room