



# 46<sup>th</sup> Annual Meeting

## Program Agenda

### SATURDAY, JUNE 24, 2006

- 9:00 AM–12:00 PM     **COUNCIL 1A MEETING**—Executive Board Room
- 11:30 AM–5:00 PM    **REGISTRATION**—Grand Ballroom Foyer
- 1:00 PM–4:50 PM     **EDUCATION COURSE** (*Separate registration required*)—Salon B  
**Vertebrate Embryology**  
*Organized by the Education Committee: Gloria Jahnke, Chairperson*  
*Coursebooks provided by Charles River Laboratory Preclinical Services—CTBR*  
*Breaks co-sponsored by Covance, DuPont Haskell Laboratory for Health and Environmental Science, and Gene Logic Laboratories*
- 1:00 PM–1:10 PM     **Welcome**  
*Melissa S. Tassinari, President, Teratology Society*
- 1:10 PM–1:15 PM     **Introduction**  
*Speaker: Gloria Jahnke, Sciences International, Inc.*
- 1:15 PM–1:25 PM     **Narsingh Agnish Fellowship**  
*Speaker: Narsingh Agnish*
- 1:25 PM–2:10 PM     **Comparative Cleavage & Gastrulation**  
*Speaker: Gary C. Schoenwolf, University of Utah*
- 2:10 PM–2:55 PM     **Brain-Neural Tube Development**  
*Speaker: Richard H. Finnell, Institute of Biosciences and Technology*
- 2:55 PM–3:20 PM     **Break**
- 3:20 PM–4:05 PM     **Craniofacial Development**  
*Speaker: Lori Kotch, John Hopkins University School of Medicine*
- 4:05 PM–4:50 PM     **Skeletal Development (Including Limb)**  
*Speaker: Michael D. Collins, UCLA School of Public Health*
- 6:30 PM–9:00 PM     **COUNCIL 1B MEETING (COMMITTEE REPORTS)**—Executive Board Room

### SUNDAY, JUNE 25, 2006

- 7:30 AM–8:00 AM     **EDUCATION COURSE COFFEE AND CONTINENTAL BREAKFAST**—Grand Ballroom Foyer
- 8:00 AM–7:00 PM     **REGISTRATION**—Grand Ballroom Foyer

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8:00 AM–11:25 AM **EDUCATION COURSE** (Continued from Saturday)—Salon B

**Vertebrate Embryology**

8:00 AM–8:45 AM

**Heart Development**

Speaker: John DeSesso, Mitretek Systems

8:45 AM–9:30 AM

**Urogenital Development**

Speaker: Kok-Wah Hew, Emisphere Technologies, Inc.

9:30 AM–9:55 AM

**Break**

9:55 AM–10:40 AM

**Xenopus Model**

Speaker: Chris Wylie, Cincinnati Children's Hospital Medical Center

10:40 AM–11:25 AM

**Zebra Fish Model**

Speaker: Kim Brannen, Bristol-Myers Squibb

11:25 AM–2:00 AM

**Networking and Lunch on Own**

2:00 PM–5:00 PM **TS/NBTS JOINT SYMPOSIUM**—Salon B

**Early Exposures: Childhood Behavior Disorders**

Chairs: Cynthia F. Bearer, Case Western Reserve University and Jane Adams, University of Massachusetts

2:00 PM–2:40 PM

S1

**Autism: Parsing Heterogeneity of Causes and Features**

Speaker: Martha Herbert, Massachusetts General Hospital

2:40 PM–3:20 PM

S2

**Biomarkers of Prenatal Alcohol Exposure Correlate with Poor Developmental Outcomes**

Speaker: Cynthia F. Bearer, Case Western Reserve University

3:20 PM–3:40 PM

**Break**

3:40 PM–4:20 PM

S3

**Low Level Lead Exposure and the Risk of Delinquency: It's Not Just Cognition that's Affected**

Speaker: Herbert L. Needleman, University of Pittsburgh School of Medicine

4:20 PM–5:00 PM

S4

**Neuropsychological Deficits in Neonatal Dietary Manganese Exposure**

Speaker: Francis M. Crinella, University of California—Irvine

2:00 PM–5:00 PM **INTERNATIONALLY HARMONIZED UPDATES TO "TERMINOLOGY OF DEVELOPMENTAL ABNORMALITIES, VERSION 1" SYMPOSIUM**—Salon A

Chairs: Susan Makris U.S. Environmental Protection Agency and Howard Solomon, GlaxoSmithKline

2:00 PM–2:40 PM

S5

**Introduction, Background, and Current Status of Terminology Update**

Speaker: Susan Makris, U.S. Environmental Protection Agency

2:40 PM–3:20 PM

S6

**Terminology Revision—A European Perspective**

Speaker: Jochen Buschmann, Fraunhofer-Institute for Toxicology and Experimental Medicine

3:20 PM–3:40 PM

**Break**

3:40 PM–4:20 PM

S7

**A Japanese Perspective on Terminology Revision**

Speaker: Kohei Shiota, Kyoto University Graduate School of Medicine

4:20 PM–5:00 PM

S8

**An Introduction to: "Terminology of Developmental Abnormalities, Version 2"**

Speaker: Howard Solomon, GlaxoSmithKline

5:00 PM–6:15 PM **WELCOME RECEPTION AND EXHIBITS OPEN**—Kiva Ballroom

Co-sponsored by Gene Logic Laboratories and MPI Research

**MONDAY, JUNE 26, 2006**

7:00 AM–8:00 AM **2007 PROGRAM COMMITTEE MEETING**—Executive Boardroom

7:00 AM–8:00 AM **STUDENT AFFAIRS COMMITTEE MEETING**—Sabino

7:30 AM–8:00 AM **COFFEE AND CONTINENTAL BREAKFAST**—Kiva Ballroom

8:00 AM–5:00 PM **REGISTRATION**—Grand Ballroom Foyer

8:00 AM–8:10 AM **PRESIDENT'S WELCOME**—Salon B  
*Melissa S. Tassinari, Teratology Society President*

8:10 AM–9:00 AM **JOSEF WARKANY LECTURE**—Salon B  
**Genomics and Assessment of Developmental Risks**  
*George P. Daston, Procter & Gamble Company*

9:00 AM–9:30 AM **JAMES G. WILSON PUBLICATION AWARD**—Salon B  
**Investigations of the Genomic Region that Contains the *clf1* Mutation, a Causal Gene in Multifactorial Cleft Lip and Palate in Mice**  
*Diana M. Juriloff, University of British Columbia*

9:30 AM–9:45 AM **COFFEE BREAK**—Grand Ballroom Foyer

9:45 AM–11:30 AM **STUDENT PLATFORM SESSION**—Salon B  
*Chair: Wafa A. Harrouk, U.S. Food and Drug Administration*

9:45 AM–10:00 AM 1 **Safety of Leukotriene Receptor Antagonists in Pregnancy**  
*Bakhireva LN, Jones KL, Chambers CD. OTIS Collaborative Research Group. University of California, San Diego, La Jolla, CA, United States.*

10:00 AM–10:15 AM 2 **Vitamin K Homeostasis May be Required for Yolk Sac Angiogenesis**  
*Weston AD<sup>1</sup>, Navetta K<sup>2</sup>, Brown NA<sup>3</sup>, Ozolins TR<sup>1</sup>.*  
*<sup>1</sup>Investigative and Developmental Toxicology, Pfizer Global Research and Development, Groton, CT, United States,*  
*<sup>2</sup>Molecular Investigative Toxicology, Pfizer Global Research and Development, Groton, CT, United States, <sup>3</sup>Division of Basic Medical Sciences, St. George's University of London, London, United Kingdom.*

10:15 AM–10:30 AM 3 **Molecular Characterization of Alcohol-Related Birth Defects in Two Closely Related Lineages of C57BL/6 Mice (B6N, B6J)**  
*Green ML, Singh AV, Zhang Y, Knudsen TB. University of Louisville, Louisville, KY, United States.*

10:30 AM–10:45 AM 4 **Altered Gene Expression in Both Ectoderm and Mesoderm are Associated with a Murine Strain Difference in Retinoic Acid-Induced Forelimb Ectrodactyly in Retinoic Acid-Induced Forelimb Ectrodactyly**  
*Shimizu H<sup>1</sup>, Lee GS<sup>2</sup>, Collins MD<sup>1,2</sup>. <sup>1</sup>UCLA School of Public Health, Los Angeles, CA, United States, <sup>2</sup>UCLA Molecular Toxicology Interdepartmental Program, Los Angeles, CA, United States.*

10:45 AM–11:00 AM 5 **Mechanism Underlying Arsenic-Induced Neural Tube Defects in a Mouse Model**  
*Hill DS, Wlodarczyk BJ, Finnell RH. CEGM, Institute of Biosciences and Technology, Texas A&M University SHSC, Houston, TX, United States.*

- 11:00 AM–11:15 AM 6 **Combining Microarrays with Comparative Genomics to Elucidate Gene Regulatory Networks for Normal and Perturbed Forebrain Development**  
*Gohlke JM, Parham FM, Portier CJ. NIEHS, Chapel Hill, NC, United States.*
- 11:15 AM–11:30 AM 7 **Immunological and Pathological Effects of *Listeria monocytogenes* Infection in Pregnant Guinea Pigs**  
*Irvin EA<sup>1</sup>, Williams D<sup>1</sup>, Voss KA<sup>2</sup>, Smith MA<sup>1</sup>. <sup>1</sup>University of Georgia, Athens, GA, United States, <sup>2</sup>U.S. Department of Agriculture–ARS, Athens, GA, United States*
- 11:30 AM–12:00 PM **F. CLARKE FRASER AWARD—Salon B**  
*Christina D. Chambers, University of California—San Diego, San Diego, CA*
- 12:00 PM–1:00 PM **PAST PRESIDENTS' LUNCH (By invitation only)—Executive Boardroom**
- 12:00 PM–1:00 PM **LUNCH ON OWN**
- 12:30 PM–7:30 PM **POSTERS AND EXHIBITS OPEN—Kiva Ballroom**  
*(Attended 6:00 PM–7:30 PM)*
- 1:00 PM–3:30 PM **TS/NBTS JOINT SYMPOSIUM—Salon A**  
**Endocrine Disruption: From Animal to Human Studies**  
*Chairs: Elaine Z. Francis, U.S. Environmental Protection Agency and Mari Golub, University of California—Davis*
- 1:00 PM–1:30 PM S9 **The “Phthalate Syndrome” In Rodents: Have We Identified the Human Analog?**  
*Speaker: Shanna H. Swan, University of Rochester*
- 1:30 PM–2:00 PM S10 **PCBs and Auditory Function: From Animal Models to Human Infants**  
*Speaker: Susan Schantz, University of Illinois—Urbana*
- 2:00 PM–2:30 PM S11 **Human and Animal Studies of Pubertal Development Following Perinatal Exposure to PBBs**  
*Speaker: Michele Marcus, Emory University*
- 2:30 PM–3:00 PM S12 **Fetal Exposure to Dioxin Disrupts Progesterone Responsiveness in the Adult Murine Uterus: Implications for the Development of Endometriosis in Humans**  
*Speakers: Kevin G. Osteen, Vanderbilt University School of Medicine*
- 3:00 PM–3:10 PM S13 **Genetic and Environmental Risk Factors for Hypospadias**  
*Speaker: Jeanne Manson, The Children's Hospital of Philadelphia*
- 3:10 PM–3:30 PM **Panel Discussion: Problems and Solutions in Moving from Animal to Human Studies**  
*Discussion Leader: Jeanne Manson, The Children's Hospital of Philadelphia*
- 1:00 PM–2:00 PM **ROBERT L. BRENT LECTURE—TERATOGEN UPDATE—Salon B**  
*Chair and Commentator: Robert L. Brent, Alfred I. duPont Hospital for Children*  
**Of Mice, Men, Monkeys, and Metabolism: An Update on the Developmental Toxicity of Methanol (Abstract S13A)**  
*John Rogers, U.S. Environmental Protection Agency*

2:00 PM–3:30 PM

**TS/OTIS JOINT PLATFORM SESSION—Salon B**

*Chairs: Lewis B. Holmes, Massachusetts General Hospital for Children and Kenneth Lyons Jones, University of California—San Diego*

- 2:00 PM–2:15 PM 8 **Increased Risk for Non-Syndromic Cleft Palate Among Infants Exposed to Lamotrigine During Pregnancy**  
*Holmes LB, Wyszynski DF, Baldwin EJ, Habecker E, Glassman LH, Smith CR. North American AED Pregnancy Registry, MassGeneral Hospital for Children, Boston, MA, United States.*
- 2:15 PM–2:30 PM 9 **Outcomes of Human Pregnancies with Levetiracetam Exposure**  
*ten Berg K<sup>1</sup>, Van Oppen ACC<sup>1</sup>, Van Donselaar CA<sup>1</sup>, Wentges-Van Holthe JM<sup>2</sup>, Koppe WM<sup>3</sup>, Tamminga P<sup>4</sup>, Lindhout D<sup>1</sup>. <sup>1</sup>University Medical Center Utrecht, Utrecht, Utr, Netherlands, <sup>2</sup>National Institute for Public Health and the Environment, Bilthoven, Utr, Netherlands, <sup>3</sup>Bethesda Hospital, Hoogeveen, Dr, Netherlands, <sup>4</sup>Academic Medical Center, Amsterdam, NH, Netherlands.*
- 2:30 PM–2:45 PM 10 **Seasonal Conceptions in Neural Tube Defects, Schizophrenia and Hemispheric Laterality: Evidence Implicating Differential Embryonic Survival**  
*Marzullo G. Per Aspera Research Foundation, New York, NY, United States.*
- 2:45 PM–3:00 PM 11 **Risk of Congenital Malformations in Pregnant Users of NSAIDs**  
*Ofori B<sup>1,2</sup>, Oraichi D<sup>2</sup>, Berard A<sup>1,2</sup>. <sup>1</sup>Faculty of Pharmacy, University of Montreal, Montreal, QC, Canada, <sup>2</sup>Sainte Justine Hospital, Montreal, QC, Canada.*
- 3:00 PM–3:15 PM 12 **Failure of Pregnancy Prevention for Category X Medications: the Example of Leflunomide**  
*Tassinari E<sup>1</sup>, Johnson D<sup>2</sup>, Chambers CD<sup>2</sup>, Jones KL<sup>2</sup>, OTIS Collaborative Research Group<sup>2</sup>. <sup>1</sup>George Washington University, Washington DC, United States, <sup>2</sup>University of California San Diego, La Jolla, CA, United States.*
- 3:15 PM–3:30 PM 13 **Neurodevelopmental Outcome in Children of Women Treated with Anticonvulsant Monotherapy**  
*Mattson SN<sup>1</sup>, Chambers CD<sup>2</sup>, Vander Velde JJ<sup>1</sup>, Kao KK<sup>2</sup>, Jones KL<sup>2</sup>. <sup>1</sup>Center for Behavioral Teratology, San Diego State University, San Diego, CA, United States, <sup>2</sup>Department of Pediatrics, Division of Dysmorphology and Teratology, University of California, San Diego, La Jolla, CA, United States.*

3:30 PM–3:45 PM

**BREAK**

3:45 PM–5:45 PM

**TS/OTIS JOINT ROUNDTABLE—Catalina Ballroom**

**Communicating Teratogenic Risk Information: Case Studies in Teratogenic Risk Communication and Perception**

*Chairs: Janine E. Polifka, University of Washington and Christina D. Chambers, University of California—San Diego*

- 3:45 PM–4:45 PM S14 **Risk Analysis and Risk as Feelings: Commentary on the Dance of Affect and Reason**  
*Speaker: Paul Slovic, Decision Research Institute*

- 4:45 PM–4:55 PM S15 **Risk Communication in the Face of Uncertainty and New Findings**  
*Speaker: Alice Hughes, Center for Drug Evaluation and Research, U.S. Food and Drug Administration*
- 4:55 PM–5:05 PM S16 **Cultural Differences in Risk Perception and Assessment**  
*Speaker: Lee Ann Kaskutas, University of California—Berkeley*
- 5:05 PM–5:15 PM S17 **Communication of Fluorochemical Research to Production Workers**  
*Speaker: Geary Olsen, 3M Corporate Occupational Medicine*
- 5:15 PM–5:45 PM **Panel Discussion: Risk Communication Challenges—Implications for Teratogen Information**
- 3:45 PM–5:45 PM **NATIONAL CHILDREN’S STUDY: PLANNING AND IMPLEMENTATION—Salon B**  
*Chair: Carole A. Kimmel, Consultant, National Children’s Study, NICHD/NIH*
- 3:45 PM–3:55 PM S18 **Introduction**  
*Speaker: Carole A. Kimmel, Consultant, National Children’s Study, NICHD/NIH*
- 3:55 PM–4:15 PM S19 **Update on the Study Protocol**  
*Speaker: Ruth A. Brenner, National Children’s Study, NICHD/NIH*
- 4:15 PM–4:35 PM S20 **Coordination of the National Children’s Study**  
*Speaker: Carla Maffeo, Westat Corporation*
- 4:35 PM–4:55 PM S21 **Community Engagement and Recruitment in a Vanguard Center**  
*Speaker: Edward B. Clark, University of Utah Health Sciences Center*
- 4:55 PM–5:45 PM S22 **The North Carolina Herald Pilot Study**  
*Speaker: Pauline Mendola, National Health and Environmental Effects Research Laboratory, ORD/U.S. EPA*
- 5:30 PM–7:30 PM **TS/NBTS/OTIS JOINT POSTER SESSION I AND EXHIBITS OPEN—Kiva Ballroom**  
*Co-sponsored by Gene Logic Laboratories and GlaxoSmithKline  
 (Posters attended from 6:00 PM–7:30 PM)*
- Teratology Society Posters P1–P27**  
 P1–P17: Clinical Teratology and Epidemiology  
 P18–P21: Public Policy  
 P22–P27: Mechanisms—Animal Model
- NBTS Posters NBTS24–NBTS33**
- OTIS Posters OTIS-P1–OTIS-P2**
- 7:30 PM–10:30 PM **MARTA/MTA STUDENT CAREER EVENT—Bill’s Grill**

**TUESDAY, JUNE 27, 2006**

- 6:30 AM–7:00 AM **MINI COURSE BREAKFAST**—Salon B
- 7:00 AM–8:30 AM **BDRA EDITORIAL BOARD MEETING**—Executive Boardroom
- 7:00 AM–8:30 AM **BDRB EDITORIAL BOARD MEETING**—Sabino
- 7:00 AM–5:00 PM **REGISTRATION**—Grand Ballroom Foyer
- 7:00 AM–8:30 AM **SUNRISE MINI-COURSE** (*Separate registration required*)—Salon B  
**Developmental Pharmacokinetics**  
*Organized by the Education Committee: Gloria Jahnke, Chairperson*  
*Coursebooks provided by Charles River Laboratory Preclinical Services—CTBR*
- 7:00 AM–7:45 AM **Prenatal Pharmacokinetics—Maternal & Fetal**  
*Speaker: Edward W. Carney, The Dow Chemical Company*
- 7:45 AM–8:30 AM **Postnatal Pharmacokinetics (Postnatal Through Juvenile)**  
*Speaker: Hugh Barton, U.S. Environmental Protection Agency*
- 8:00 AM–8:30 AM **COFFEE AND CONTINENTAL BREAKFAST**—Kiva Ballroom
- 8:00 AM–1:30 PM **POSTERS AND EXHIBITS OPEN**—Kiva Ballroom  
*(Attended 11:45 AM–1:30 PM)*
- 8:30 AM–11:30 AM **MARCH OF DIMES SYMPOSIUM**—Salon B  
**New Insights in Myogenesis: Implications for Muscle Development, Birth Defects, and Regeneration (Abstract S23)**  
*Chair: Tyra M. Leazer, Procter & Gamble Company*  
*Sponsored by March of Dimes*
- 8:30 AM–8:35 AM **Introduction**
- 8:35 AM–9:15 AM **Introductions to Muscle Dystrophies: Insights from the Clinic**  
*Speaker: Jan K. Blancato, Georgetown University Medical Center*
- 9:15 AM–9:55 AM **Asymmetry in Myogenesis**  
*Speaker: Charles P. Ordahl, University of California—San Francisco*
- 9:55 AM–10:10 AM **BREAK**
- 10:10 AM–10:50 AM **Myogenesis Development and Molecular Control: Role of the Rho Family of Small GTPases**  
*Speaker: Mingyao Liu, Texas A&M University*
- 10:50 AM–11:30 AM **Genetics of Muscular Dystrophy and Disease: Impact and Implications of Polymorphisms in Animals and Humans**  
*Speaker: Eric Hoffman, Children's Research Institute*
- 11:30 AM–1:30 PM **TS/NBTS JOINT POSTER SESSION II AND EXHIBITS OPEN**—Kiva Ballroom  
*Co-sponsored by Gene Logic Laboratories and GlaxoSmithKline*  
*(Posters attended from 11:45 AM–1:30 PM)*
- Teratology Society Posters P28–P61:**
- P28–P38: Hazard/Risk Evaluation
- P39–P53: Mechanisms
- P54–P61: Methods
- NBTS Posters NBTS34–NBTS38**

1:30 PM–3:30 PM **PLATFORM SESSION I—Salon B****Epidemiology—Clinical Teratology**

Chair: Suzan L. Carmichael, California Birth Defects Monitoring Program

- 1:30 PM–1:45 PM 14 **Childhood Cancer and Pesticides - A Case-Control Study of Possible Gene-Environment Interactions**  
*Soldin OP<sup>1,2</sup>, Loffredo CA<sup>1</sup>, Shields PG<sup>1</sup>, Barr D<sup>3</sup>, Luban N<sup>4</sup>, Shad A<sup>1</sup>, Nelson D<sup>5</sup>. <sup>1</sup>Department of Oncology, Lombardi Comprehensive Cancer Center, Georgetown University Medical Center, Washington, DC, United States, <sup>2</sup>Department of Medicine and Center for Sex Differences, Washington, DC, United States, <sup>3</sup>Centers for Disease Control and Prevention, Atlanta, GA, United States, <sup>4</sup>Children's National Medical Center, (CNMC), George Washington University, Washington, DC, United States, <sup>5</sup>Department of Pediatrics, Georgetown University Medical Center, Washington, DC, United States.*
- 1:45 PM–2:00 PM 15 **Child Neurodevelopment Following Exposure to Venlafaxine *In Utero*, Unexposed Siblings as Comparison Groups: Preliminary Results**  
*Nulman I<sup>1,2</sup>, Knittel-Keren D<sup>1,2</sup>, Valo S<sup>1,2</sup>, Sussman R<sup>1,2</sup>, Barrer A M<sup>1,2</sup>, Koren G<sup>1,2</sup>. <sup>1</sup>University of Toronto, Toronto, ON, Canada, <sup>2</sup>Hospital for Sick Children, Toronto, ON, Canada.*
- 2:00 PM–2:15 PM 16 **Evaluation of Clinical Presentation in Neonates Exposed to Antidepressants in Late Pregnancy**  
*Boucher N<sup>1,2</sup>, Bairam A<sup>1,3</sup>, Beaulac-Baillargeon L<sup>1,2</sup>. <sup>1</sup>Perinatology Research Unit, Laval University affiliated Hospitals (CHUQ), Saint-Francois d'Assise Hospital, Quebec, QC, Canada, <sup>2</sup>Faculty of Pharmacy, Laval University, Quebec, QC, Canada, <sup>3</sup>Faculty of Medicine, Laval University, Quebec, QC, Canada.*
- 2:15 PM–2:30 PM 17 **Pregnancy Outcome After *In-Utero* Exposure to Valproic Acid: A Prospective Controlled Cohort Study**  
*Diav-Citrin O<sup>1</sup>, Shechtman S<sup>1</sup>, Cantrell D<sup>2</sup>, Bar-Oz B<sup>3,2</sup>, Arnon J<sup>1</sup>, Ornoy A<sup>1,2</sup>. <sup>1</sup>The Israeli Teratogen Information Service, Israel Ministry of Health, Jerusalem, Israel, <sup>2</sup>The Hebrew University Hadassah Medical school, Jerusalem, Israel, <sup>3</sup>The Department of Neonatology, Hadassah University Hospital, Mount Scopus, Jerusalem, Israel.*
- 2:30 PM–2:45 PM 18 **Long Delay Eyeblink Conditioning in Autism**  
*Arndt TL<sup>1</sup>, Chadman KK<sup>2</sup>, Watson DJ<sup>2</sup>, Tsang V<sup>1</sup>, Rodier PM<sup>1</sup>, Stanton ME<sup>2</sup>. <sup>1</sup>University of Rochester School of Medicine and Dentistry, Rochester, NY, United States, <sup>2</sup>University of Delaware, Newark, DE, United States.*
- 2:45 PM–3:00 PM 19 **Maternal Thyroid Disease as a Possible Risk Factor for Craniosynostosis, National Birth Defects Prevention Study, 1997-2002**  
*Rasmussen SA<sup>1</sup>, Yazdy M<sup>1</sup>, Honein M<sup>1</sup>, Carmichael SL<sup>2</sup>, Canfield M<sup>3</sup>. <sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA, United States, <sup>2</sup>California Birth Defects Monitoring Program, Berkeley, CA, United States, <sup>3</sup>Texas Center for Birth Defects Research and Prevention, Austin, TX, United States.*

3:00 PM–3:15 PM 20 **Maternal Stressors and Risks of Selected Birth Defects**  
*Carmichael SL<sup>1</sup>, Shaw GM<sup>1</sup>, Yang W<sup>1</sup>, Abrams B<sup>2</sup>. <sup>1</sup>March of Dimes/California Birth Defects Monitoring Program, Berkeley, CA, United States, <sup>2</sup>University of California, Berkeley, CA, United States.*

3:15 PM–3:30 PM 21 **Birth Prevalence Rate of Major Malformations: Establishing Prevalence Rate of Major Malformations after In-Uterine Exposure: A Challenge for Pregnancy Registries**  
*Harel EH, Holmes LB. MassGeneral Hospital for Children, Boston, MA, United States.*

1:45 PM–3:15 PM **TS/OTIS JOINT SYMPOSIUM—Catalina Ballroom**

**Emerging Infections: Mechanisms of Inflammation During Pregnancy**

*Chairs: Mary Alice Smith, University of Georgia and Dee Quinn, University of Arizona*

1:45 PM–2:15 PM S24 **Molecular Mechanisms of Oral Infection Mediated Perinatal Complications**  
*Speaker: Steven Offenbacher, University of North Carolina*

2:15 PM–2:45 PM S25 **Immunopathogenesis of Malaria During Pregnancy**  
*Speaker: Julie Moore, University of Georgia*

2:45 PM–3:15 PM S26 **Listeria-Induced Stillbirths: Impact of Mechanisms of Infection on Risk Assessment**  
*Speaker: Mary Alice Smith, University of Georgia*

3:15 PM–3:30 PM **BREAK**

3:30 PM–6:30 PM **TS/OTIS JOINT SYMPOSIUM—Catalina Ballroom**

**Emerging Infections: Viruses Beyond Rubella**

*Chairs: Sonja Rasmussen, Centers for Disease Control and Prevention and Dee Quinn, University of Arizona*

3:30 PM–3:40 PM **Introduction**  
*Speaker: Sonja Ramassen, Centers for Disease Control & Prevention*

3:40 PM–4:10 PM S27 **Is West Nile Virus a Teratogen?**  
*Speaker: Dawn M. Wesson, Tulane Health Sciences Center*

4:10 PM–4:40 PM S28 **Lymphocytic Choriomeningitis Virus (LCMV): Emerging Fetal Teratogen**  
*Speaker: Marilyn Baird Mets, Northwestern University*

4:40 PM–5:10 PM S29 **Risks and Benefits of Immunizing Pregnant Women: The Risk of Doing Nothing**  
*Speaker: Robert L. Brent, Alfred I. duPont Hospital for Children*

5:10 PM–5:40 PM S30 **Challenges to the Study, Prophylaxis and Treatment of Pregnant Women for Emerging Infection**  
*Speaker: Denise Jamieson, Division of Reproductive Health, Center for Disease Control and Prevention*

5:40 PM–6:30 PM **Panel Discussion**

3:30 PM–6:15 PM **PLATFORM SESSION II—Salon B**

**Mechanisms I**

*Chairs: Louise M. Winn, Queen's University and E. Sidney Hunter, III, U.S. Environmental Protection Agency*

3:30 PM–3:45 PM 22 **Overexpression of c-Ha-ras Protects Against All-trans Retinoic Acid Induced Malformations**  
*Marshall EK, Albert JR, Collins MD. University of California Los Angeles, Los Angeles, CA, United States.*

- 3:45 PM–4:00 PM 23 **Comparative Pathogenesis of Cadmium- and/or All-trans Retinoic Acid- Induced Postaxial Forelimb Ectrodactyly in the C57BL/6 Mouse**  
*Liao X, Shimizu H, Lee G, Collins MD. Univeristy of California, Los Angeles, Los Angeles, CA, United States.*
- 4:00 PM–4:15 PM 24 **Abnormal Yolk Sac Vasculature and Decreased Nitric Oxide in Copper Deficient Mouse Embryos**  
*Yang SJ, Lanoue L, Keen CL, Rucker RB, Uriu-Adams JY. University of California, Davis, Davis, CA, United States.*
- 4:15 PM–4:30 PM 25 **Minimal Role for Reactive Oxygen Species in Dichloroacetic Acid-Induced Dysmorphology in Mouse Whole Embryo Culture**  
*Hunter, III ES, Rogers EH, Blanton MR. US EPA, RTD, NHEERL, ORD, Research Triangle Park, NC, United States.*
- 4:30 PM–4:45 PM 26 **Benzene Alters Embryonic Pim-1 Signalling and Induces Oxidative Stress in CD-1 Mice**  
*Wan J, Winn LM. Queen's University, Kingston, ON, Canada.*
- 4:45 PM–5:00 PM 27 **The Ontogeny of Circulating Thyroid Hormone Levels in Sprague-Dawley Rats**  
*Beck MJ, Fillutzy H, Godsey J, Nemeč MD, Stump DG, Holson JF. WIL Research Laboratories, LLC, Ashland, OH, United States.*
- 5:00 PM–5:15 PM 28 **The Effects of Methimazole on Circulating Thyroid Hormone Levels in Sprague-Dawley Rats**  
*Beck MJ, Donahue DA, Varsho BJ, Nemeč MD, Stump DG, Holson JF. WIL Research Laboratories, LLC, Ashland, OH, United States.*
- 5:15 PM–5:30 PM 29 **Lack of Association Between Cardiovascular Malformations and Treatment with Selective Estrogen Receptor Modulators (SERMs) in Rats and Rabbits**  
*Henck JW, Reddy VR, Hilbish KG, Breslin WJ. Eli Lilly and Company, Greenfield, IN, United States.*
- 5:30 PM–5:45 PM 30 **Artesunate: Developmental Toxicity in Monkeys**  
*Clark RL<sup>1</sup>, Kumemura M<sup>2</sup>, Makori N<sup>3</sup>, Nakata Y<sup>4</sup>, Bernard F<sup>5</sup>, Harrell A<sup>5</sup>, White TEK<sup>1</sup>, Arima A<sup>2</sup>. <sup>1</sup>GlaxoSmithKline, King of Prussia, PA, United States, <sup>2</sup>SNBL, Kagoshima, Japan, <sup>3</sup>SNBL-USA, Everett, WA, United States, <sup>4</sup>GlaxoSmithKline, Shibuya-ku, Tokyo, Japan, <sup>5</sup>GlaxoSmithKline, Ware, Hertfordshire, United Kingdom.*
- 5:45 PM–6:00 PM 31 **Mitochondrial Involvement of Artesunate Toxicity in Rat Embryonic Erythroblasts**  
*Laffan SB<sup>1</sup>, James AC<sup>1</sup>, Maleeff BE<sup>1</sup>, Pagana JM<sup>2</sup>, Bushdid PB<sup>1</sup>, Clark RL<sup>1</sup>, White TEK<sup>1</sup>. <sup>1</sup>GlaxoSmithKline, Safety Assessment, King of Prussia, PA, United States, <sup>2</sup>Drexel University, Philadelphia, PA, United States.*
- 6:00 PM–6:15 PM 32 **Dinocap Induced Cleft Palate and Otoconia Agenesis Due to a Single Isomer**  
*Tornesi B<sup>1</sup>, Marshall V<sup>1</sup>, Carney EW, Billington R<sup>2</sup>. <sup>1</sup>The Dow Chemical Company, Midland, MI, United States, <sup>2</sup>Dow AgroSciences, Milton, United Kingdom.*

**WEDNESDAY, JUNE 28, 2006**

- 7:00 AM–8:30 AM **PUBLIC AFFAIRS COMMITTEE MEETING**—Sabino  
 7:00 AM–8:30 AM **PUBLICATIONS COMMITTEE MEETING**—Executive Boardroom  
 7:30 AM–8:00 AM **COFFEE AND CONTINENTAL BREAKFAST**—Grand Ballroom Foyer  
 8:00 AM–5:00 PM **REGISTRATION**—Grand Ballroom Foyer  
 8:00 AM–9:30 AM **PLATFORM SESSION III**—Salon B

**Mechanisms II**

*Chairs: Claudia Kappen, University of Nebraska Medical Center and Richard H. Finnell, Institute of Biosciences and Technology*

- 8:00 AM–8:15 AM 33 **Early Embryonic Development in Reduced Folate Carrier (RFC1) Knockout Mice is Characterized by Neural Tube Defects, Absence of Erythropoiesis, and Failure of Chorioallantoic Fusion**  
*Gelineau-Van Waes J<sup>1</sup>, Heller S<sup>1</sup>, Maddox J<sup>1</sup>, Eedy J<sup>1</sup>, Askew J<sup>1</sup>, Bauer L<sup>1</sup>, Aleman F<sup>1</sup>, Finnell RH<sup>1,2</sup>. <sup>1</sup>University of Nebraska Medical Center, Omaha, NE, United States, <sup>2</sup>Institute of Biosciences and Technology, Houston, TX, United States.*
- 8:15 AM–8:30 AM 34 **Folic Acid Prevents Conotruncal Malformations in *Folbp1* Knockout Mice: Role of Folate in Cardiac Neural Crest Cell Survival and Migration**  
*Gelineau-Van Waes J<sup>1</sup>, Aleman F<sup>1</sup>, Maddox J<sup>1</sup>, Bauer L<sup>1</sup>, Tang L<sup>2</sup>, Rosenquist T<sup>1</sup>, Finnell RH<sup>2,1</sup>. <sup>1</sup>University of Nebraska Medical Center, Omaha, NE, United States, <sup>2</sup>Institute of Biosciences and Technology, Houston, TX, United States.*
- 8:30 AM–8:45 AM 35 **Maternal Diabetes and Cardiac Malformations: The Role of *Pax3*, p53-Dependent Apoptosis, and Cardiac Neural Crest Migration**  
*Morgan SC<sup>1</sup>, Relaix F<sup>2</sup>, Buckingham M<sup>2</sup>, Sandell L<sup>3</sup>, Tilghman S4, Loeken MR<sup>1</sup>. <sup>1</sup>Joslin Diabetes Center, Boston, MA, United States, <sup>2</sup>Pasteur Institute, Paris, France, <sup>3</sup>Stowers-Institute, Kansas City, MO, United States, <sup>4</sup>Princeton University, Princeton, NJ, United States.*
- 8:45 AM–9:00 AM 36 **Altered Gene Expression Profiles in Embryos Exposed to Maternal Diabetes**  
*Pavlinkova G, Kruger C, Salbaum JM, Kappen C. University of Nebraska Medical Center, Omaha, NE, United States.*
- 9:00 AM–9:15 AM 37 **Orofacial Clefts Induced by Diabetes Are Not Affected by Maternal Immune Stimulation**  
*Toops KA<sup>1</sup>, Hrubec TC<sup>1,2</sup>, Hollanay SD<sup>1</sup>. <sup>1</sup>VA-MD Regional College of Veterinary Medicine, Blacksburg, VA, United States, <sup>2</sup>E. Via Virginia College of Osteopathic Medicine, Blacksburg, VA, United States.*
- 9:15 AM–9:30 AM 38 **Impact of Maternal Diets and Early Environmental Exposure on Weight Maintenance and Development of the Offspring**  
*Wolterbeek APM, Eussen SRBM, Jansink R, Van Der Horst JML, Otto M, Waalkens DH, Dijkstra A, Salmon FGCH, Wortelboer HM, Pasma WJ, Hendriks HFJ, Bobeldijk I, Groten JP, De Groot DMG. TNO Quality of Life, Zeist, Netherlands.*

304 TERATOLOGY SOCIETY PROGRAM

8:00 AM–12:00 PM **TS/NBTS JOINT SYMPOSIUM—Salon A**  
**Recent Advances in Research on the Safety of Thimerosal in Vaccines**  
*Chair: Thomas Burbacher, University of Washington*

8:00 AM–8:05 AM **Introduction**  
*Speaker: Thomas M. Burbacher, University of Washington*

8:05 AM–8:35 AM S31 **The Many Faces of Mercury**  
*Speaker: Thomas W. Clarkson, University of Rochester*

8:35 AM–9:05 AM S32 **Thimerosal Kinetics in Infants Receiving Routine Vaccinations**  
*Speaker: Polly Sager, National Institute of Allergy and Infectious Diseases*

9:05 AM–9:30 AM S33 **Animal Models of Thimerosal Absorption, Distribution, and Dealkylation**  
*Speaker: Thomas M. Burbacher, University of Washington*

9:30 AM–10:00 AM **WARKANY TEA—Grand Ballroom Foyer**  
*Sponsored by Amgen, Inc.*

10:00 AM–10:30 AM S34 **Nanomolar Thimerosal Dysregulates Dendritic Cell Functions: Mechanisms and Ramifications**  
*Speaker: Issac N. Pessah, University of California—Davis*

10:30 AM–11:00 AM S35 **Neurobehavioral Analysis of Early Postnatal Thimerosal Exposure in Mice**  
*Speaker: Robert F. Berman, University of California—Davis*

11:00 AM–11:30 AM S36 **Neuroanatomical Correlates of Mercury Exposure**  
*Speaker: Jean Harry, National Institute of Environmental Health Sciences*

11:30 AM–12:00 PM **Discussion**

10:00 AM–12:00 PM **MARTA/MTA PEDIATRIC SYMPOSIUM—Catalina Ballroom**  
**Pediatric Safety Evaluation: Regulatory, Nonclinical, and Clinical Experience**  
*Chair: Kok-Wah Hew, Emisphere Technologies, Inc.*

10:00 AM–10:30 AM S40 **Pediatric Safety Evaluation Guidelines: What's New**  
*Speaker: Shaun R. Maguire, GlaxoSmithKline*

10:30 AM–11:00 AM S41 **Pediatric Safety Evaluation: Nonclinical Experience**  
*Speaker: Keith Robinson, Charles River Laboratories Preclinical Services—CTBR*

11:00 AM–11:30 AM S42 **Translational Pediatric Research: Bridging the Gap From Preclinical to Clinical Setting**  
*Speaker: Daniel M. Jorgensen, Pfizer Global Research & Development*

11:30 AM–12:00 PM S43 **Conducting Pediatric Clinical Trials: An Overview**  
*Speaker: Xilla Ussery, Pfizer Global Research & Development*

10:00 AM–12:00 PM **RARE DISEASES SYMPOSIUM—Salon B**  
**Chemically Induced Congenital Anomalies: Is Oxidative Stress a Common Pathway?**

*Chair: Peter G. Wells, University of Toronto*

*Sponsored by the Office of Rare Diseases, National Institutes of Health, DHHS*

10:00 AM–10:05 AM **Introduction**  
*Speaker: Peter G. Wells, University of Toronto*

10:05 AM–10:40 AM S37 **Oxidative DNA Damage and Repair in Teratogenesis**  
*Speaker: Peter G. Wells, University of Toronto*

- 10:40 AM–11:15 AM S38 **Oxidative Stress and Signal Transduction in Chemical Teratogenesis**  
*Speaker: Jason Hansen, Emory School of Medicine*
- 11:15 AM–11:50 AM S39 **Oxidative Stress in Diabetic Teratogenesis**  
*Speaker: Mary R. Loeken, Harvard University*
- 11:50 AM–12:00 PM **Discussion**
- 12:00 PM–1:00 PM **EDUCATION COMMITTEE MEETING—Executive Boardroom**
- 12:00 PM–1:00 PM **LUNCH ON OWN**
- 1:00 PM–2:00 PM **RARE DISEASES ROUNDTABLE—Salon B**  
*Chair: Melissa Tassinari, Pfizer, Inc.*  
*Speaker: Jean F. Campbell, National Organization for Rare Disorders, Inc.*
- 2:00 PM–5:00 PM **WILEY LISS SYMPOSIUM—Salon B**  
**MicroRNAs in Development**  
*Chairs: Barbara F. Hales, McGill University and Philip Mirkes, Texas A&M University*
- 2:00 PM–2:10 PM **Introduction**
- 2:10 PM–2:45 PM S44 **Introduction to MiRNA**  
*Speaker: Lance P. Ford, Ambion, Inc.*
- 2:45 PM–3:20 PM S45 **Computational Identification of MiRNAs and Their Target Genes**  
*Speaker: Nikolaus Rajewsky, New York University*
- 3:20 PM–3:35 PM S45 **Break**
- 3:35 PM–4:10 PM S46 **MiRNAs as Regulators of *C. elegans* Development**  
*Speaker: Allison Abbott, Dartmouth Medical School*
- 4:10 PM–4:45 PM S47 **Mammalian Small RNA Biology**  
*Speaker: Michael T. McManus, University of California—San Francisco*
- 4:45 PM–5:00 PM **Conclusion and Discussion**
- 5:00 PM–6:30 PM **BUSINESS MEETING AND REPORTS FROM BIRTH DEFECTS RESEARCH EDITORS—Salon B**
- 6:30 PM–11:00 PM **RECEPTION AND BANQUET—Kiva Ballroom**

**THURSDAY, JUNE 29, 2006**

- 7:00 AM–7:30 AM **COFFEE AND CONTINENTAL BREAKFAST—Grand Ballroom Foyer**
- 7:00 AM–10:00 AM **REGISTRATION—Grand Ballroom Foyer**
- 7:30 AM–10:30 AM **PUBLIC AFFAIRS COMMITTEE PLATFORM SESSION—Salon B**  
**Regulatory Science**  
*Chair: Anthony R. Scialli, Sciences International, Inc.*  
*Co-sponsored by the ILSI Health and Environmental Sciences Institute (HESI)—Developmental and Reproductive Toxicology Technical Committee*
- 7:30 AM–8:10 AM 39 **The Effects of Serotonin Depletion on Locomotor Development in Zebrafish**  
*Airhart MJ<sup>1</sup>, Miller B<sup>1,2</sup>, Lee D<sup>1</sup>, Wilson T<sup>2</sup>, Miller M<sup>2</sup>, Skalko RG<sup>1</sup>. <sup>1</sup>Dept. of Anatomy and Cell Biology, East Tennessee State University, Johnson City, TN, United States, <sup>2</sup>Dept. of Psychiatry, East Tennessee State University, Johnson City, TN, United States.*

- 8:10 AM–8:50 AM 40 **Mineralization of the Lumbar Part of the Vertebral Column in Rat Fetuses Exposed to Cyclooxygenase Inhibitors**  
*Burda F<sup>1,2</sup>, Rozylo-Kalinowska I<sup>2</sup>, Szumilo J<sup>3</sup>, Dudka J<sup>3</sup>, Klepacz R<sup>3</sup>. <sup>1</sup>Experimental Teratology Unit of the Human Anatomy Department; Medical University of Lublin, Lublin, Poland, <sup>2</sup>Second Radiology Department; Medical University of Lublin, Lublin, Poland, <sup>3</sup>Clinical Pathomorphology Department; Medical University of Lublin, Lublin, Poland.*
- 8:50 AM–9:10 AM **Break**
- 9:10 AM–9:50 AM 41 **The Genomic Response of a Human Uterine Endometrial Adenocarcinoma Cell Line to 17 $\alpha$ -Ethinyl Estradiol: A Potential Alternative to Animal Testing for Estrogens.**  
*Naciff JM, Khambatta ZS, Thomason RG, Carr GJ, Tiesman JP, Daston GP. The Procter and Gamble, Cincinnati, OH, United States.*
- 9:50 AM–10:30 AM 42 **Gestational Exposure to Paroxetine and Cardiac Malformations in Infants: A Nested Case-Control Study**  
*Berard A<sup>1,2</sup>, Ramos E<sup>1,2</sup>, Oraichi D<sup>2</sup>, Blais L<sup>1,3</sup>, Rey E<sup>1,2</sup>. <sup>1</sup>University of Montreal, Montreal, QC, Canada, <sup>2</sup>Ste-Justine Hospital, Montreal, QC, Canada, <sup>3</sup>Sacre-Coeur Hospital, Montreal, QC, Canada.*
- 7:30 AM–9:45 AM **PLATFORM SESSION IV—Salon A**  
**Mechanisms III**  
*Chairs: Marianne Barrier, Texas A&M University and Thomas B. Knudsen, University of Louisville*
- 7:30 AM–7:45 AM 43 **Risk of Limb Deficiency Defects Associated with NAT1, NAT2, GSTT1, GSTM1 and NOS3 Genetic Variants, Maternal Smoking, and Vitamin Supplement Intake**  
*Carmichael SL<sup>1</sup>, Shaw GM<sup>1</sup>, Yang W<sup>1</sup>, Iovannisci D<sup>2</sup>, Lammer EJ<sup>2</sup>. <sup>1</sup>March of Dimes / California Birth Defects Monitoring Program, Berkeley, CA, United States, <sup>2</sup>Children's Hospital Research Institute, Oakland, CA, United States.*
- 7:45 AM–8:00 AM 44 **A Genomic Approach to Hyperthermia-Induced Neural Tube Defects**  
*Barrier M, MO Q, Vannucci M, Mirkes PE. Texas A&M University, College Station, TX, United States.*
- 8:00 AM–8:15 AM 45 **Hydroxyurea (HU) Induces 4-Hydroxy-2-Nonenal (4HNE) Protein Adducts in Organogenesis Stage Mouse Embryos**  
*Yan JY, Hales BH. McGill University, Montreal, QC, Canada.*
- 8:15 AM–8:30 AM 46 **Integrative Analysis of the Mouse Embryonic Transcriptome**  
*Singh AV, Zhang Y, Knudsen KB, Rouchka EC, Knudsen TB. University of Louisville, Louisville, KY, United States.*
- 8:30 AM–8:45 AM 47 **MicroRNA Gene Expression During Early Postimplantation Mouse Development**  
*Barrier M<sup>1</sup>, Dugas DV<sup>2,3</sup>, Shelton J<sup>2</sup>, Ford LP<sup>2</sup>, Mirkes PE<sup>1</sup>. <sup>1</sup>Texas A&M University, College Station, TX, United States, <sup>2</sup>Ambion, Inc, Austin, TX, United States, <sup>3</sup>Rice University, Houston, TX, United States.*

- 8:45 AM–9:00 AM 48 **Teratogen-Induced Activation of p53 Signaling Pathways in Day 9 Mouse Embryos**  
*Hosako H, Watson EM, Mirkes PE. Texas A&M University, College Station, TX, United States.*
- 9:00 AM–9:15 AM **Break**
- 9:15 AM–9:30 AM 49 **Heat Shock Protein 70 (Hsp70) Protects Embryos from Teratogen-Induced Exencephaly: Analysis Using Hsp70 Null Mice**  
*Barrier M<sup>1</sup>, Gil S<sup>2</sup>, Faske JB<sup>1</sup>, Watson EM<sup>1</sup>, Mirkes PE<sup>1</sup>.  
<sup>1</sup>Texas A&M University, College Station, TX, United States,  
<sup>2</sup>University of Washington, Seattle, WA, United States.*
- 9:30 AM–9:45 AM 50 **A System Based Approach to Identify Potential Signalling Pathways During Gonad Development from Microarray Data**  
*Yu X<sup>1</sup>, Griffith WC<sup>1</sup>, Hanspers K<sup>2</sup>, Ong H<sup>1</sup>, Faustman EM<sup>1</sup>.  
<sup>1</sup>Dept. of Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, United States,  
<sup>2</sup>GenMAPP Development Team, Bioinformatics Research Associate, San Francisco, CA, United States.*
- 7:30 AM–10:30 AM **THYROID HORMONE AND BRAIN DEVELOPMENT: BASIC BIOLOGY, TOXICOLOGY, AND PUBLIC HEALTH SYMPOSIUM—Catalina Ballroom**  
*Chairs: Jerry Heindel, National Institute of Environmental Health Sciences and R. Thomas Zoeller, University of Massachusetts*  
*Sponsored by the National Institute of Environmental Health Sciences*
- 7:30 AM–8:10 AM S48 **Thyroid Hormone and Brain Development**  
*Speaker: Joanne Rovet, The Hospital for Sick Children*
- 8:10 AM–8:50 AM S49 **Genetic Analysis of Thyroid Hormone Action During Brain Development**  
*Speaker: Frederic Flamant, Ecole Normale Supérieure de Lyon*
- 8:50 AM–9:10 AM **Break**
- 9:10 AM–9:50 AM S50 **Environmental Factors That Alter Thyroid Hormone Signaling**  
*Speaker: R. Thomas Zoeller, University of Massachusetts*
- 9:50 AM–10:30 AM S51 **Thyroid Hormone and Public Health**  
*Speaker: James Haddow, Women and Infants Hospital of Rhode Island*
- 11:00 AM–2:00 PM **COUNCIL II MEETING—Executive Board Room**