Third Annual Meeting
June 4 – 6, 2009
Marriott Toronto Downtown Eaton Centre Hotel
525 Bay Street
Toronto, Ontario M5G 2L2
Canada

Thursday, June 4th

12:00 – 3:00 pm  Satellite Workshop (Trinity V)
Sex Cells But Gender Matters: New Frontiers in Health
Research
Chair: Donna Stewart, M.D., Ph.D., F.R.C.P.C. (University of
Toronto)

12:00 – 4:00 pm  OSSD Meeting Registration (Pre-function Area)
Exhibit set up (Grand Ballroom A/B)

4:00 – 5:00 pm  Opening Keynote Lecture (Grand Ballroom C/D/Crush)
Jeannie T. Lee, M.D., Ph.D. (Massachusetts General Hospital):
New lessons from the X-inactivation Paradigm

5:00 – 7:00 pm  Symposium I (Grand Ballroom C/D/Crush)
Sex Differences in Pharmacokinetics / Pharmacodynamics and
Drug Development
Chair: Wolfgang Sadée, Dr.rer.nat (The Ohio State University)
Speakers:
Wolfgang Sadée, Dr.rer.nat (The Ohio State University): Sex
Differences In Drug Disposition And Response, And Modulation
By Genetic Polymorphisms: An Overview
Yingying Guo, Ph.D. (Eli Lilly and Company): Consideration Of
Sex Differences In Preclinical And Clinical Drug Development
Shashi G. Amur, Ph.D. (FDA, Center for Drug Evaluation and
Research): A Search For Sex Differences And Disease Etiology In
The Gene Expression Profiles Of Systemic Lupus Erythematosus
(SLE) Patients: Genomics Approach To Drug Development
Kathleen Uhl, M.D. (FDA, Office of Women's Health):
Regulatory Aspects Of Sex Differences In Drug Development

7:00 pm  Reception (Trinity I-III)

Friday, June 5th
7:00 - 9:00 am  Breakfast (Trinity I-III)
8:00 -10:00 am  **Symposium II** (Grand Ballroom C/D/Crush)  **Childhood Obesity: Sex Differences in Manifestations and Mechanisms**  *Chairs:* Amy B. Wisniewski, Ph.D. (University of Oklahoma Health Sciences Center) and Steven D. Chernausek, M.D. (University of Oklahoma Health Sciences Center)  *Speakers:*  **Carolyn Bondy, M.D.** (National Institute of Child Health and Development, NIH): X Chromosome And Regional Adiposity  **Nancy Crimmins, M.D.** (Cincinnati Children’s Hospital Medical Center): Sex Differences In Stability Of Body Mass In Adolescents  **Megan Moriarty, M.D.** (University of Colorado Denver/The Children’s Hospital): Sex Differences In Pubertal Onset And Progression In Obese Children  **Robert D. Roghair, M.D.** (University of Iowa): Sex Differences In Programmed Metabolic And Cardiovascular Disease

10:00 - 10:30 am  Break, posters and exhibits open (Grand Ballroom A/B)

10:30- 12:30 pm  **Symposium III** (Grand Ballroom C/D/Crush)  **Sex Chromosomes and Autoimmunity**  *Chair:* Pietro Invernizzi, M.D., Ph.D. (University of California at Davis and Istituto Clinico Humanitas, Rozzano)  *Speakers:*  **Pietro Invernizzi, M.D., Ph.D.** (University of California at Davis and Istituto Clinico Humanitas, Rozzano): X Chromosome Defects In Autoimmune Diseases  **Julia Upton, B.Sc., M.D., FRCP(C)** (Hospital for Sick Children): X Linked Immunodeficiencies And Autoimmunity  **R. Hal Scofield, M.D.** (Oklahoma Medical Research Foundation): Autoimmunity And Kleinfelter’s Syndrome: When Men Have Two X Chromosomes  **Daniela Larizza, M.D.** (Università di Pavia): Autoimmunity in Turner Syndrome: When a Woman Lacks and X Chromosome

12:30 – 2:00 pm  Lunch (Trinity I-III)

2:00 – 4:00 pm  **Symposium IV** (Grand Ballroom C/D/Crush)  **Sex and Gender Differences in Progenitor and Stem Cells: Implications for Tissue Injury, Repair and Regeneration**  *Chair:* Doris A. Taylor, Ph.D. (University of Minnesota)  *Speakers:*  **Marie Csete, M.D., Ph.D.** (California Institute for Regenerative Medicine): Sex Issues In Transplantation  **Leslie A. Leinwand, Ph.D.** (University of Colorado): How Diet And Sex Change The Genetic Landscape Of The Heart
Johnny Huard, Ph.D. (University of Pittsburgh): Sex Based Difference In Tissue Regeneration And Repair With Muscle Stem Cells

Doris A. Taylor, Ph.D. (University of Minnesota): Sex Differences In Cell Therapy For Vascular Repair: Preclinical Results And Early Clinical Hints

4:00 – 5:00 pm OSSD Annual Membership Meeting (Grand Ballroom C/D/Crush)
5:00 – 7:00 pm Poster Session I (Grand Ballroom A/B)

Saturday, June 6th

7:00 -9:00 am Breakfast (Trinity I-III)
8:00-10:00 am Symposium V (Grand Ballroom C/D/Crush)
Sex-Based Cerebral Vascular Biology and Stroke
Chair: Patricia Hurn, Ph.D. (Oregon Health and Science University)
Speakers:
Louise D. McCullough, M.D. (University of Connecticut Health Center): Sex Differences In Stroke: Clinical And Experimental Aspects
Diana N. Krause, Ph.D. (University of California, Irvine): Sex Differences And Sex Steroid Effects In Cerebral Blood Vessels
Patricia Hurn, Ph.D. (Oregon Health and Science University): Sex Steroids As Modulators Of Ischemic Brain Injury
James W. Simpkins, Ph.D. (University of North Texas Health Sciences Center): Sex, Steroids And Brain Injury

10:00- 10:30 am Break and poster viewing/exhibits (Grand Ballroom A/B)
10:30- 12:30 pm Symposium VI (Grand Ballroom C/D/Crush)
Sex and Gender Differences in Knee Osteoarthritis (OA)
Chairs: Barbara D. Boyan, Ph.D. (Georgia Institute of Technology) and Laura Tosi, M.D. (George Washington University)
Speakers:
Daniel P. Nicolella, Ph.D. (Southwest Research Institute): The Relationship Between Osteoporosis And Osteoarthritis
Amy Lerner, Ph.D. (University of Rochester): Obesity And Gender-Related Effects On Knee Biomechanics And Osteoarthritis: An Interplay Of Biological And Mechanical Factors
Wendy M. Kohrt, Ph.D. (University of Colorado, Denver): Clinical Evidence for Relationships of Physical Activity, Obesity, and Gender With OA
Mary I. O’Connor, M.D. (Mayo Clinic): Sex And Gender Difference In Knee Osteoarthritis: Clinical Symptoms And Surgical Outcomes

12:30 – 2:00 pm Lunch (Trinity I-III)
2:00 – 4:00 pm Symposium VII (Grand Ballroom C/D/Crush)
Sex Differences in Cognition
**Chairs:** Jill B. Becker, Ph.D. (University of Michigan) and Agnes Lacreuse, Ph.D. (University of Massachusetts)

**Speakers:**

**Csaba Leranth, M.D., Ph.D.** (Yale University): Sex Differences And Similarities In The Response Of The Brain To Gonadal Hormones And Bisphenol A

**Victoria N. Luine, Ph.D.** (Hunter College of CUNY): Gonadal Hormones Influence Cognition In Rats Over The Lifespan

**Agnès Lacreuse, Ph.D.** (University of Massachusetts): Sex Hormones And Cognition In Nonhuman Primates

**Monique Cherrier, Ph.D.** (University of Washington): Androgens, Estrogens And Cognition In Humans: Complex Relationships

4:00 – 6:00   Poster Session II (Grand Ballroom A/B)

6:00 – 7:00 pm    **Closing Keynote Lecture** (Grand Ballroom C/D/Crush)

**Virginia M. Miller, Ph.D.** (College of Medicine, Mayo Clinic): Remember The "GIRLS": Sex-Based Differences In Vascular Function

7:00 pm   Awards Banquet (Trinity I-III)