



ORGANIZATION FOR THE  
STUDY OF SEX DIFFERENCES

# OSSD Fourth Annual Meeting

## June 3–5, 2010

Psychology Department, University of Michigan  
Ann Arbor, MI

for more details please visit: [www.ossdweb.org](http://www.ossdweb.org)

### THURSDAY, JUNE 3 - MICHIGAN LEAGUE

12:00 - 2:00 pm

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**OSSD Meeting Registration**  
Exhibit set up

2:00 - 2:30 pm

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**Welcome and Introductions**

2:30 - 3:30 pm

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**Opening Keynote Lecture**  
**Timothy Bestor, Ph.D.**, Columbia University  
“Sexual Dimorphism in Genomic Imprinting”

3:30 - 5:30 pm

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**Symposium I: Evolution and the Origins of Sex Differences in Mortality**

*Chair:* Randolph M. Nesse, M.D., University of Michigan

*Speakers:*

- **Randolph M. Nesse, M.D.**, University of Michigan  
“Evolutionary Origins of Sex Differences in Human Mortality”
- **Daniel J. Kruger, Ph.D.**, University of Michigan  
“A Unified Causal Framework for Sex Differences in Human Mortality Rates”
- **David Geary, Ph.D.**, The University of Missouri  
“Sexual Selection for Sex Differences in Vulnerability”
- **Bobbi Low, Ph.D.**, University of Michigan  
“Life History Theory and the Evolution of Sex Differences: How Unusual Are Humans?”

5:30 - 6:00 pm

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**Break**

6:00 - 7:30 pm

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**The Elizabeth A. Young New Investigator Symposium**

7:30 pm

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**Reception**

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### FRIDAY, JUNE 4 - EAST HALL

7:00 - 9:00 am

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**Breakfast**

8:00 - 10:00 am

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**Symposium II: Parent of Origin Specific Epigenetic Programming: Genetic and Environmental Determinants**

*Co-Chairs:* Rosanna Weksberg, M.D., Ph.D., Hospital for Sick Children, Toronto, and Marisa Bartolomei, Ph.D., University of Pennsylvania School of Medicine

*Speakers:*

- **Marisa Bartolomei, Ph.D.**, University of Pennsylvania School of Medicine  
“Embryo Culture Environment in Mice Impacts the Rate of Imprinting Abnormalities”
- **Carmen Sapienza, Ph.D.**, Temple University  
“Parental Imprinting Differences between Children Conceived *In vitro* or *In vivo*”
- **Rosanna Weksberg, M.D., Ph.D.**, Hospital for Sick Children, Toronto  
“Deregulation of Parental Imprinting in the Offspring of Males and Females with Subfertility and Assisted Reproduction”

- **Moshe Szyf, Ph.D.**, McGill University  
“Epigenetic Programming of Behavior by Maternal Care”
- **Shawn Winsor, M.H.Sc.**, University of Toronto  
“Bioethical and Psychosocial Issues Involved in Counseling Couples Regarding Risks Associated with Subfertility/Assisted Reproductive Technologies”

10:00 - 10:30 am

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**Break, Posters and Exhibits Open**

10:30 am - 12:30 pm

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**Symposium III: Pain, Its Treatment, and the Influence of Sex**

*Co-Chairs:* Anne Z. Murphy, Ph.D., Georgia State University and Lisa Kilpatrick, Ph.D., University of California, Los Angeles

*Speakers:*

- **Anne Z. Murphy, Ph.D.**, Georgia State University  
“Why Morphine is not the Drug of Choice for the Treatment of Female Pain”
- **Richard J. Traub, Ph.D.**, University of Maryland Dental School  
“Sex Differences in Visceral Pain”
- **Lisa Kilpatrick, Ph.D.**, University of California, Los Angeles  
“Sex Differences in the Response of Autonomic and Emotional Arousal Brain Networks to Visceral Pain in Irritable Bowel Syndrome”
- **Brian E. Cairns, Ph.D., R.Ph.**, University of British Columbia  
“Sex Differences in the Neurobiology of Orofacial Pain”

12:30 - 2:00 pm

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**Lunch**

2:00 - 4:00 pm

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**Symposium IV: Antenatal Corticosteroids: Sex-Based Differences in Respiratory Distress Syndrome and Outcomes**

*Co-chairs:* Yves Tremblay, Ph.D., Mother and Infant Center, Laval University and Bruno Piedboeuf, M.D., Mother and Infant Center, Laval University

*Speakers:*

- **Elizabeth Vagi Asztalos, M.D.**, Sunnybrook Health Sciences Center  
“Antenatal Corticosteroids: A Randomized Controlled Trial”
- **Emmanuel Bujold, M.D.**, and **Stéphanie Roberge, PhD Candidate**, Mother and Infant Center, Laval University  
“The Role of Sex in the Response of Corticosteroids in Women at Risk to Deliver Prematurely: Meta-Analysis and Systematic Review”
- **Bruno Piedboeuf, M.D.**, Mother and Infant Center, Laval University  
“Effect of Sex on Survival and Short-term Outcomes of Extremely Premature Infants: A Canadian Retrospective Study”
- **Keith Barrington, M.D.**, University of Montreal  
“Prenatal Corticosteroids; Early Gains and Long-Term Questions: A Brain Point of View”
- **Yves Tremblay, Ph.D.**, Mother and Infant Center, Laval University  
“Lung Maturation, Androgens and Corticosteroids: A Question of Sex and Timing”

4:00 - 5:00 pm

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**OSSD Annual Membership Meeting**

5:00 - 7:00 pm

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**Poster Session I**

7:00 - 9:00 am

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**Breakfast**

8:00 - 10:00 am

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**Symposium V: Sexually Differentiated Responses and Estrogen Receptors**

*Co-Chairs:* Robert L. Meisel, Ph.D., University of Minnesota and Paul Micevych, Ph.D., University of California, Los Angeles

*Speakers:*

- **Robert J. Handa, Ph.D.**, University of Arizona  
“Splice Variants of Estrogen Receptor Beta in the Control of Stress”
- **Cheryl S. Watson, Ph.D.**, University of Texas Medical Branch  
“Membrane Actions of Physiological, Environmental and Plant Estrogens”
- **Paul G. Mermelstein, Ph.D.**, University of Minnesota  
“Membrane Estrogen Receptors Are Functionally Linked to mGluR Signaling”
- **Paul Micevych, Ph.D.**, University of California, Los Angeles  
“Membrane Estrogen Receptor Signaling and Reproduction in Female Rodents”

10:00 - 10:30 am

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**Break and Poster Viewing/Exhibits**

10:30 am - 12:30 pm

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**Symposium VI: Sex Differences in Neuroplasticity and Mental Health**

*Co-Chairs:* Helen Scharfman, Ph.D., Nathan Kline Institute and New York University and Coral Lee Wetherington, Ph.D., National Institute on Drug Abuse, NIH

*Speakers:*

- **Dolores Malaspina, M.D.**, New York University

“Sex Differences in Schizophrenia”

- **Neil MacLusky, Ph.D.**, University of Guelph  
“Sex Differences in Depression”
- **Helen Scharfman, Ph.D.**, Nathan Kline Institute and New York University  
“Sex Differences in Spatial Memory and its Relevance to Alzheimer’s Disease”
- **Cynthia Kuhn, Ph.D.**, Duke Institute for Brain Sciences  
“Sex Differences in Addiction and other Dopaminergic Disorders”

12:30 - 2:00 pm

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**Lunch**

2:00 - 4:00 pm

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**Symposium VII: Sex/Gender in Science and Medicine**

*Chair:* Gillian Einstein, Ph.D. University of Toronto

*Speakers:*

- **Arthur P. Arnold, Ph.D.**, University of California, Los Angeles  
“Mouse Models for Studying the Hormonal and Genetic Origins of Sex Differences in Disease”
- **Jeanette Magnus, M.D., Ph. D.**, Tulane University  
“Sex and Gender from Bench to Bedside”
- **David Sandberg, Ph.D.**, University of Michigan  
“Delivery of Behavioral Health Services to Children with Endocrine Disorders that Affect Sex and Gender and their Families”
- **Vera Regitz-Zagrosek, M.D.**, Charite-Universitaetsmedizin Berlin  
“Sex and Gender in Cardiology”
- **Jonathan M. Metzl, M.D., Ph.D.**, University of Michigan  
“Gender Stereotypes Used in the Diagnosis of Depression”

4:00 - 5:00 pm

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### Closing Capstone Lecture

**Margaret M. McCarthy, Ph.D.**, University of Maryland

“Sexual Differentiation of the Brain”

5:00 - 7:00 pm

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Reception and Poster Session II

7:30 pm

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Awards Banquet - Michigan Union

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### Purpose and Learning Objectives

**Audience:** The topics of this conference are relevant to physicians of various disciplines including internal medicine, neurology, psychiatry, pathology, preventive medicine, endocrinology, oncology and medical genetics among others.

**Problem:** Physicians do not often think that there may be differences in incidence, presentation, diagnosis, progression and treatment of diseases between their male and female patients.

**Objectives:** This conference’s goals are to increase: 1) awareness and knowledge about physiological differences between men and women that affect health and disease, and 2) physicians’ ability to implement differential assessment and treatment by gender into their care of patients. Biological sex should be considered a fundamental variable in every aspect of biomedical research, from studies in cells and model organisms to human clinical trials.

**Content:** Every year, the OSSD Program Committee strives to put together a program that

presents interdisciplinary panels that illustrate how sex differences research can be translated into clinical practice. At this conference the topics of sex differences in mortality rates, epigenetic programming, pain treatment, lung development, responses to estrogens, mental health and non reproductive cancers will be covered.

**Format:** The program is designed as panel presentations with ample time for interactive discussions among panel presenters and the audience.

### Accreditation and Continuing Education Credit

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of Michigan Medical School and the Organization for the Study of Sex Differences. The University of Michigan Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Michigan Medical School designates this educational activity for a maximum of 16 AMA PRA Category 1 Credit(s)<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.