



ORGANIZATION FOR THE
STUDY OF SEX DIFFERENCES

OSSD Fourth Annual Meeting

June 3–5, 2010

Psychology Department, University of Michigan
East Hall, 530 Church Street
Ann Arbor, MI

www.ossdweb.org

THURSDAY, JUNE 3

12:00 - 2:00 pm

OSSD Meeting Registration
Exhibit set up

2:00 - 2:30 pm

Welcome and Introductions

2:30 - 3:30 pm

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

3:30 - 5:30 pm

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 Casual Framework for Sex Differences in Human Mortality Rates”
- **David Geary, Ph.D.**, The University of Missouri
“Sexual Selection for Sex Differences in Vulnerability”
- **Martin Daly, Ph.D. and Margo Wilson, Ph.D.**, McMaster University
“Sex Differences in Future Discounting and Competitive Risk-Taking”

5:30 - 6:00 pm

Break

6:00 - 7:30 pm

The Elizabeth A. Young New Investigator Symposium

7:30 pm

Reception

FRIDAY, JUNE 4

7:00 - 9:00 am

Breakfast

8:00 - 10:00 am

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”
- **Moshe Szyf, Ph.D.**, McGill University
“Epigenetic Programming of Behavior by Maternal Care”
- **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”
- **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

Break, Posters and Exhibits Open

10:30 am - 12:30 pm

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:

- **Jennifer Labus, 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”
- **Richard J. Traub, Ph.D.**, University of Maryland Dental School
“Sex Differences in Visceral Pain”
- **Anne Z. Murphy, Ph.D.**, Georgia State University
“Why Morphine is not the Drug of Choice for the Treatment of Female Pain”
- **Brian E. Cairns, Ph.D., R.Ph.**, University of British Columbia
“Sex Differences in the Neurobiology of Orofacial Pain”

12:30 - 2:00 pm

Lunch

2:00 - 4:00 pm

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.**, 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

OSSD Annual Membership Meeting

5:00 - 7:00 pm

Poster Session I

SATURDAY, JUNE 5

7:00 - 9:00 am

Breakfast

8:00 - 10:00 am

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”
- **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”
- **Cheryl S. Watson, Ph.D.**, University of Texas Medical Branch
“Membrane Actions of Physiological, Environmental and Plant Estrogens”

10:00 - 10:30 am

Break and Poster Viewing/Exhibits

10:30 am - 12:30 pm

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”

- **Cynthia Kuhn, Ph.D.**, Duke Institute for Brain Sciences
“Sex Differences in Addiction and other Dopaminergic Disorders”
- **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”

12:30 - 2:00 pm

Lunch

2:00 - 4:00 pm

Symposium VII: Sex Differences in Oxidative Stress, Non-Reproductive Cancers, and Longevity

Chair: David J. Waters, D.V.M., Ph.D., Gerald P. Murphy Cancer Foundation

Speakers:

- **William H. Parker, M.D.**, John Wayne Cancer Institute
“Ovarian Conservation in Women Decreases Mortality: Results of the Nurses’ Health Study”
- **David J. Waters, D.V.M., Ph.D.**, Gerald P. Murphy Cancer Foundation
“Exploring the Mechanisms of Sex Differences in Longevity: Ovarian Influence on Exceptional Longevity in Dogs”
- **Stavros C. Manolagas, Ph.D.**, University of Arkansas
“Ovariectomy Diminishes Defenses against Oxidative Stress in Mice”
- **Christine E. M. Keller, Ph.D. Candidate**, Purdue University Center on Aging and the Life Course
“Effect of Ovarian Status on the Oxidative Stress Challenge”

4:00 - 5:00 pm

Closing Capstone Lecture

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

“Sexual Differentiation of the Brain”

5:00 - 7:00 pm

Reception and Poster Session II

7:30 pm

Awards Banquet

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)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.