
Event Agenda

Organization for the Study of Sex Differences 19th Annual Meeting

Sunday, June 01, 2025

- 8:00 AM - 3:00 PM** **Registration Open**
Location: North Atrium
- 8:30 AM - 3:50 PM** **OSSD WHRC Pre-Meeting**
Location: Alvarado ABCD
- Opening Remarks**
 8:45 AM - 9:00 AM
- 9:00 AM - 10:00 AM** **Keynote: Leveraging mouse and human (epi)genomics to improve women's mental health**
Speaker: Marija Kundakovic
- 10:05 AM - 11:25 AM** **Session: Hormones and Brain Health from Adolescence to Midlife**
Chair: Cindy Barha
- The impact of the hormonal contraceptives on the female adolescent brain**
 10:05 AM - 11:25 AM
 Speaker: Carina Heller
- Multimodal assessment of complex cognition across the menstrual cycle: bridging neuroendocrinological, computational and genetic approaches**
 10:25 AM - 10:45 AM
 Speaker: Mateja Perovic
- How parity shapes the middle-aged brain: Functional connectivity changes in a rodent model of Alzheimer's disease risk**
 10:45 AM - 11:05 AM
 Speaker: Bonnie Lee
- Lifetime estradiol exposure and female's brain and mental health**
 11:05 AM - 11:25 AM
 Speaker: Hannah Oppenheimer
- 11:25 AM - 12:25 PM** **Lunch On Your Own**
- 12:30 PM - 2:00 PM** **Session: SWHR Science that Speaks: Advancing Research Priorities in Women's Obesity Care**
Speakers: Irene Aninye, Syreen Goulmamine
- Calling for Change: Elevating the Women's Health Lens in Obesity Research**
 12:30 PM - 2:00 PM
 Speaker: Irene Aninye
- Communicating for Change: Maximizing Accuracy, Impact, and Reach**
 12:30 PM - 2:00 PM
 Speaker: Syreen Goulmamine
- Panel Q&A Discussion**
 12:30 PM - 2:00 PM
- Roundtable Discussions**
 12:30 PM - 2:00 PM
- 2:00 PM - 2:15 PM** **Break**

2:20 PM - 3:45 PM

Session: Reproduction and Metabolic Mental Health in Pregnancy and Beyond

Chair: Sandi Dumanski

Investigating the Links between the Maternal Microbiota-Gut-Brain Axis and Perinatal Mood Disorders: A Systems Biology Approach

2:20 PM - 2:45 PM

Speaker: Beatriz Penalver Bernabe

Reproductive Outcomes in Polycystic Ovary Syndrome: The Impacts of Bariatric Surgery and Weight Loss Medications

2:45 PM - 3:05 PM

Speaker: Jamie Benham

The Effect of Controlled Ovarian Stimulation on Adiposity and Metabolism in Females Treated with In-Vitro Fertilization (IVF)

3:05 PM - 3:25 PM

Speaker: Elaha Niazi

Sex-dependent Programming in Offspring Born to Pregnancies Complicated by Obesity

3:25 PM - 3:45 PM

Speaker: Jennifer Thompson

3:45 PM - 3:50 PM

Closing Remarks

4:30 PM - 6:30 PM

OSSD Council Meeting

Location: Potters

5:00 PM - 5:00 PM

Dinner on Your Own

Monday, June 02, 2025

7:00 AM - 5:00 PM

Registration Open

Location: North Atrium

7:00 AM - 8:30 AM

Breakfast

Location: East Atrium

7:30 AM - 8:45 AM

BoSD Editorial Board Meeting

Location: Weavers

8:45 AM - 10:00 AM

Arthur P. Arnold Distinguished Lecture

Location: Alvarado ABCD

Speaker: Liisa Galea

10:00 AM - 10:15 AM

Break

Location: East Atrium

10:15 AM - 12:00 PM

Poster Session I

Location: Alvarado EFGH

1. Sex differences in serum protein profiles of males and females with psoriatic arthritis

10:15 AM - 12:00 PM

Speaker: Steven Dang

2. Treatment of psychiatric disorders after solid organ transplant, with an emphasis on gender differences

10:15 AM - 12:00 PM

Speaker: Christine Hsu

3. Female representation in the antiplatelet medication literature informing the 2023 Canadian antiplatelet guidelines

10:15 AM - 12:00 PM

Speaker: Nicole Tegg

6. Sex-influenced DNAm profiles of isolated human placental cell types

10:15 AM - 12:00 PM

Speaker: Jiyoung Han

7. Gender-Related Facilitators and Barriers to Participation in Observational Neurocognitive Aging Research in Older Adults

10:15 AM - 12:00 PM

Speaker: Vasvi Dhir

10. Prolactin receptor modulates hypersensitivity in female mice following repeated ischemia with reperfusion injury.

10:15 AM - 12:00 PM

Speaker: Meranda Quijas

11. Stress and Glucocorticoid Receptors Exacerbate Cardiac Injury in Women

10:15 AM - 12:00 PM

Speaker: Analilia Cardenas Garza

12. The association between duration of menopausal hormone therapy and cardiovascular health

10:15 AM - 12:00 PM

Speaker: Nabilah Gulamhusein

13. Estimating the association between parity and gravidity & blood pressure and hypertension: a systematic review and meta-analysis

10:15 AM - 12:00 PM

Speaker: Nabilah Gulamhusein

14. Hysterectomy and hypertension risk: a protocol for a retrospective population-based cohort study

10:15 AM - 12:00 PM

Speaker: Nabilah Gulamhusein

15. Sex Differences in the Mitochondrial Function of Hypermobile Ehlers-Danlos Syndrome and Hypermobility Spectrum Disorder Patients

10:15 AM - 12:00 PM

Speaker: Frances Wilson

16. A lipidomic and antifibrotic perspective in the sex-dependent benefit of B vitamins in heart failure in mice

10:15 AM - 12:00 PM

Speaker: Chloe David

18. Acute Withdrawal from Alcohol: Behavioral Impacts Across Age and Sex in Rodent Models

10:15 AM - 12:00 PM

Speaker: Tatyanna Montgomery

19. Sex differences in the relationship between tau pathology, neurodegeneration and depression in carriers of the PSEN1 A431E mutation causing early onset Autosomal Dominant Alzheimer's disease

10:15 AM - 12:00 PM

Speaker: Nancy Ortega

20. Sex differences and influence of estrous cycle on morphine withdrawal-induced anxiety-like behavior and NMDA receptor expression

10:15 AM - 12:00 PM

Speaker: Davis Van Dyk

21. Gender based differences in depressed brain and the impact on the treatment of depression

10:15 AM - 12:00 PM

Speaker: Dalia Giedrimiene

22. The Impact of Estrogen on Mental Health in Women and Men

10:15 AM - 12:00 PM

Speaker: Dalia Giedrimiene

23. Estradiol Mediates Healthy Adipose Tissue Expansion and Protects Metabolic Health in Young Females.

10:15 AM - 12:00 PM

Speaker: Taylor Scheidl

24. Hormonal intrauterine device use is related to mental rotations but not verbal memory

10:15 AM - 12:00 PM

Speaker: Ran Yan

25. Gestational mercury exposure impacts behavioral ultrasonic vocalizations in pubertal rat offspring.

10:15 AM - 12:00 PM

Speaker: Elizabeth Wilson

28. Sex Alters Adipose Tissue Macrophage Phenotype in Obesity

10:15 AM - 12:00 PM

Speaker: Jessica Wager

30. Sex and Gender Concepts in Orthopedic Residency Education: A Cross-Sectional Survey

10:15 AM - 12:00 PM

Speaker: Hannah Geoffroy

31. Estrogen receptor alpha expression is associated with Alzheimer disease pathology in people with Down syndrome

10:15 AM - 12:00 PM

Speaker: Elizabeth Andrews

32. Hormonal contraceptive use tied to changes in brain morphology in a densely-sampled female

10:15 AM - 12:00 PM

Speaker: Elle Murata

33. Modeling stress in a cohort of Black & Latina transgender women living with HIV in the US

10:15 AM - 12:00 PM

Speaker: Mary Carmody

35. Sex Differences for Health Issues Preceding Lewy Body Dementia

10:15 AM - 12:00 PM

Speaker: Francesca Dino

36. Chronic recording of hippocampus across pregnancy and postpartum reveals long-term structural changes

10:15 AM - 12:00 PM

Speaker: Nora Wolcott

37. KDM5C and KDM5D Influence DNA Methylation in Mouse Liver

10:15 AM - 12:00 PM

Speaker: Emily Gibbons

38. Sex differences in medial prefrontal cortical dopamine signaling during context threat discrimination

10:15 AM - 12:00 PM

Speaker: Liv Engel

40. How parity shapes the middle-aged brain: functional connectivity changes in a rodent model of Alzheimer's disease risk

10:15 AM - 12:00 PM

Speaker: Bonnie Lee

41. The Effect of Sex Hormones and Sex Chromosomes in Coxsackievirus B3 Myocarditis Utilizing Four Core Genotype Mice

10:15 AM - 12:00 PM

Speaker: Jacob Ricci

44. Sex differences in left-ventricular cardiac strain as a predictor of radiation induced heart disease

10:15 AM - 12:00 PM

Speaker: Emily Whelan

45. Chemogenetic activation of neural circuits driving alcohol misuse: A focus on sex differences

10:15 AM - 12:00 PM

Speaker: Kelly Hewitt

47. Study of menopause and resistance training on brain health (SMART Brain)

10:15 AM - 12:00 PM

Speaker: Wejdaan Faridi

48. The incidence and prevalence of chronic kidney disease in transgender individuals: A protocol

10:15 AM - 12:00 PM

Speaker: Badal Pattar

49. The management of chronic kidney disease in transgender individuals: A protocol

10:15 AM - 12:00 PM

Speaker: Badal Pattar

51. Leveraging CRISPR/dCas9 tools to examine cell-type-specific mechanisms underlying the memory-enhancing effects of estradiol in the rat dorsal hippocampus

10:15 AM - 12:00 PM

Speaker: Rutuja Borawke

53. Brain-selective estrogen therapy for treatment of aromatase inhibition symptoms

10:15 AM - 12:00 PM

Speaker: Hannah Courmoyer

55. The Role of Sex and Gender on the Experiences of Participants in the EMPOWER Trial: A Qualitative Exploration

10:15 AM - 12:00 PM

Speaker: Shaina Corrick

57. Sex differences in the effects of mid-life chronic variable stress in an Alzheimer's disease mouse model

10:15 AM - 12:00 PM

Speaker: Christina Thrasher

60. Sex-Specific Regulation of ET-1 and Vascular Activation in Humans and Mice with SLE-Associated CVD

10:15 AM - 12:00 PM

Speaker: Marice McCrorey

61. Co-Design of an Educational Toolkit to support younger women's post-stroke parenting roles and responsibilities

10:15 AM - 12:00 PM

Speaker: Emine Kocabas

62. The impact of prenatal exposure to infection on adolescent cannabis use

10:15 AM - 12:00 PM

Speaker: Skylar Nicholson

66. Interacting effects of maternal immune activation and offspring sex on behavior and gene expression in brain

10:15 AM - 12:00 PM

Speaker: Liz Nouel

67. Sex Differences in Neuromuscular Fatigability During Ischemic Dynamic Knee Extension Exercise Post Stroke

10:15 AM - 12:00 PM

Speaker: Zhilun Zhou

68. A second X chromosome improves cognition in aging male and female mice

10:15 AM - 12:00 PM

Speaker: Francesca Marino

69. Sex Differences in Measures of Hemodialysis Adequacy and Clinical Outcomes: A Systematic Review

10:15 AM - 12:00 PM
Speaker: Victoria Riehl-Tonn

70. Association between gender and choice of home-based dialysis

10:15 AM - 12:00 PM
Speaker: Victoria Riehl-Tonn

72. Male and female rats demonstrate distinct withdrawal symptoms after chronic morphine treatment.

10:15 AM - 12:00 PM
Speaker: Tiffany Aguirre

73. Oral contraceptives™ effect on the HPA-axis and risk for depression-like behavior

10:15 AM - 12:00 PM
Speaker: Kristen Schuh

74. Vascular dysfunction is associated with elevated asprosin levels in postmenopausal mice.

10:15 AM - 12:00 PM
Speaker: Nefia Chacko

75. The role of estrogen in tau pathology, hippocampal volume, and verbal memory in older women

10:15 AM - 12:00 PM
Speaker: Kitty Lui

76. Single cell RNA sequencing analysis of pediatric myocarditis PBMCs identifies mitochondrial dysfunction

10:15 AM - 12:00 PM
Speaker: Stephen Kocsis

77. Outcomes associated with the presence of long COVID symptomology following an acute infection with SARS-Co-V-2 during pregnancy.

10:15 AM - 12:00 PM
Speaker: Clementine Adeyemi

78. Sex-Specific Vascular and Metabolic Alterations in a Mouse Model of Neurodegeneration: Biomarkers for Disease Progression

10:15 AM - 12:00 PM
Speaker: Grace Mercer

79. Multiome analyses to understand sex differences in GBM outcome.

10:15 AM - 12:00 PM
Speaker: Lorida Llaci

82. Comparing baseline characteristics from a longitudinal observational study examining headache in transfeminine/gender diverse youth and cisgender male peers

10:15 AM - 12:00 PM
Speaker: Ry Hemond

85. Dissecting the contributions of gonadal and sex chromosomal sex-biasing factors on cellular and spatial gene expression in the mouse brain

10:15 AM - 12:00 PM
Speaker: Juliana Shin

86. Role of Physical Activity and Biological Sex on Brain Health in a Multiethnic Cohort

10:15 AM - 12:00 PM
Speaker: Jansie Nel

87. Functional brain network dynamics across pregnancy

10:15 AM - 12:00 PM
Speaker: Elizabeth Chrastil

88. Sex-differences in LPS-induced Spatial Memory Deficits

10:15 AM - 12:00 PM
Speaker: Madison Clark

89. Sex-specific dynamics of dopaminergic activity across stress coping and avoidance behaviors

10:15 AM - 12:00 PM
Speaker: Kailyn Price

97. Clinicopathological factors Influencing PD-L1 Expression and The Effect of Immune Checkpoint Inhibitors on Survival Outcomes in Patients with Gastric Cancer Depending on Sex in a Tertiary Hospital in South Korea

10:15 AM - 12:00 PM
Speaker: Nayoung Kim

12:00 PM - 1:30 PM

Lunch on Your Own

Location: Sawmill

12:00 PM - 1:30 PM

Trainee Lunch Event

Location: Alvarado ABCD

1:30 PM - 3:15 PM

Sex Differences in Cardiometabolic Disease: Of Mice and Humans

Location: Alvarado ABCD

Speakers: Karen Reue, Carrie Wiese ; Chair & Speaker: Dhananjay Vaidya, Wendy Bennett

A multi-omics approach to identify sex-diet interactions in cardiometabolic disease

1:30 PM - 1:55 PM

Speaker: Karen Reue

Sex determinants of atherosclerosis at single-cell resolution

1:55 PM - 2:20 PM

Speaker: Carrie Wiese

Sex Hormones and Intensive Lifestyle Modification Targeting Weight Reduction in Diabetes: The Look AHEAD Study

2:20 PM - 2:45 PM

Speaker: Dhananjay Vaidya

Sex and Gender Differences in Cardiometabolic Disease

2:45 PM - 3:10 PM

Speaker: Wendy Bennett

Q&A

3:10 PM - 3:15 PM

1:30 PM - 3:15 PM

Associations Between Social Determinants of Health and Disease Outcomes and Symptoms in Women (SCORE)

Location: Franciscan

Speakers: Arpana Church, Izzuddin Aris, MacKenzie Peltier ; Chair & Speaker: Rajeev Agarwal

Associations between social determinants of health and disease outcomes and symptoms in women

1:30 PM - 1:50 PM

Speaker: Rajeev Agarwal

Sex commonalities and differences in associations between neighborhood disadvantage in patients with irritable bowel syndrome: Insights from brain-gut microbiome interactions

1:50 PM - 2:15 PM

Speaker: Arpana Church

Neighborhood Vulnerability and Women's Health – Insights from the Project Viva Cohort

2:15 PM - 2:40 PM

Speaker: Izzuddin Aris

Alcohol Use During Pregnancy: The Impact of Social Determinants of Health

2:40 PM - 3:05 PM

Speaker: MacKenzie Peltier

Q&A

3:05 PM - 3:15 PM

3:15 PM - 3:30 PM

Break

Location: East Atrium

3:30 PM - 5:15 PM

Highlights from Early Stage Investigators

Location: Alvarado ABCD

Speakers: Angela del Aguila, Chen Wang, Chloe Lopez-Lee ; Chair & Speaker: Erynn Christensen

Mechanisms of chemotherapy-induced behavioral side effects in female breast cancer patients: Estrogen, hot flashes, and anxiety

3:30 PM - 3:55 PM

Speaker: Angela del Aguila

A panoramic view of expression and function of the diverse and expanded Doublesex/DMRT gene family of *C. elegans*

3:55 PM - 4:20 PM

Speaker: Chen Wang

Age versus pubertal stage: Sex differences in cognitive development during adolescence

4:20 PM - 4:45 PM

Speaker: Erynn Christensen

Tlr7 drives sex differences in age- and AD-related demyelination

4:45 PM - 5:10 PM

Speaker: Chloe Lopez-Lee

Q&A

5:10 PM - 5:15 PM

3:30 PM - 5:15 PM

New Views on Sex and the Brain Transcriptome

Location: Franciscan

Speakers: Adam Pavlinek, Jessica Tollkuhn, Alex DeCasien ; Chair: Armin Raznahan

Using organoids to study neurodevelopmental sex differences

3:30 PM - 3:55 PM

Speaker: Adam Pavlinek

Steroid hormone receptors drive sex-variable neural gene expression

3:55 PM - 4:20 PM

Speaker: Jessica Tollkuhn

Sex differences in the human brain across biological levels

4:20 PM - 4:45 PM

Speaker: Alex DeCasien

Q&A

5:10 PM - 5:15 PM

5:15 PM - 6:00 PM

Break

Location: East Atrium

6:00 PM - 7:00 PM

“Science is Better with Sex and Gender” Opening Reception Sponsored by CIHR

Location: Hotel Albuquerque Pavilion

7:00 PM - 9:00 PM

Trainee Networking Event

Location: Chapel Plaza

Tuesday, June 03, 2025

7:00 AM - 5:00 PM

Registration Open

Location: North Atrium

7:30 AM - 8:45 AM

Breakfast

Location: East Atrium

8:45 AM - 10:00 AM

Stoelting Co. - Education Panel - Big Data and AI in Sex and Gender Research

Location: Alvarado ABCD

Chair: DeLisa Fairweather, Rebecca Cunningham ; Speakers: Barbara Stranger, Irene Aninye

10:00 AM - 10:15 AM

Break

Location: East Atrium

10:15 AM - 12:00 PM

Poster Session II

Location: Alvarado EFGH

83. Role of Androgen Receptor in Mouse Home-cage Behavior from Young Adulthood to Middle Age

10:15 AM - 12:00 PM

Speaker: Houng-Wei Tsai

84. Androgenic Regulation of Sex Differences in Social Behavior of Young Mice

10:15 AM - 12:00 PM

Speaker: Houng-Wei Tsai

91. Naturally cycling estradiol modulates hippocampal navigation in mice

10:15 AM - 12:00 PM

Speaker: John Fan

95. Participant Diversity and Inclusive Trial Design: A Meta-Epidemiologic Study of Canadian Randomized Clinical Trials

10:15 AM - 12:00 PM

Speaker: Debby Oladimeji

96. Sex Differences in Sustained Weight Loss as a Potential Early Marker of Pancreatic Cancer

10:15 AM - 12:00 PM

Speaker: Seon Mee Park

101. Ventricular Tachycardia in Structural Heart Disease: Role of Estrogen

10:15 AM - 12:00 PM

Speaker: Maggie White

103. Role of Mitochondrial Fission on CVB3 Replication and Myocarditis

10:15 AM - 12:00 PM

Speaker: Charwan Hamilton

104. Modulation of glymphatic clearance by hormones

10:15 AM - 12:00 PM

Speaker: Suzanne Baker

106. Chronic social instability stress differentially affects avoidance behaviors, the transcriptome of the anterodorsal bed nucleus of the stria terminalis, and CRH neuronal excitability across the sexes

10:15 AM - 12:00 PM

Speaker: Troy Roepke

109. A novel model of doxorubicin-induced cardiomyopathy in female FVB mice

10:15 AM - 12:00 PM

Speaker: Jessica Fliess

110. Sex differences in mercury accumulation and social behavior in offspring exposed to mercury in utero

10:15 AM - 12:00 PM

Speaker: Jessica Bradshaw

111. There is no relationship between testosterone concentration and sympathetic activity in young men or women.

10:15 AM - 12:00 PM

Speaker: Rauchelle Richey

112. Sex Differences Among Emergency Department Patients Who Received a Pulmonary Embolism Response Team Activation

10:15 AM - 12:00 PM

Speaker: Angela Jarman

113. Identification of Sex-Specific Mechanisms of Endothelial to Mesenchymal Transition (EndoMT) Contributing to Atherosclerotic Plaque Stability Using a Multi-Omics Approach

10:15 AM - 12:00 PM

Speaker: Kelsey Watts

115. Female Adipose Derived Extracellular Vesicles Inhibit Viral Myocarditis: Potential New Therapy

10:15 AM - 12:00 PM

Speaker: Emma Murphy

116. Changes to stress-induced neurotransmitter co-transmission is sex-dependent and reversed by fluoxetine

10:15 AM - 12:00 PM

Speaker: Ryan Betters

117. Estradiol but not testosterone is associated with severity of inflammatory bowel pain

10:15 AM - 12:00 PM

Speaker: Rebecca Craft

118. Implicit Bias on the Basis of Sex in Frontotemporal Dementia Diagnosis

10:15 AM - 12:00 PM

Speaker: Medha Reddy

119. Sex differences in clinical trial enrollment in the United States across psychiatric disorders

10:15 AM - 12:00 PM

Speaker: Amanda Koire

120. Sex differences in the NAD⁺ hydrolase CD38 in viral myocarditis

10:15 AM - 12:00 PM

Speaker: Max Strandes

121. Influences of stressful life events on brain morphology in early adolescence

10:15 AM - 12:00 PM

Speaker: Lisa Wiersch

122. Early Pubertal Timing is a Risk Factor for Adolescent Dysmenorrhea

10:15 AM - 12:00 PM

Speaker: Christel Portengen

123. Sex Hormones Mediate Intensive Lifestyle Intervention-Induced Changes in Bone Mineral Density: Look AHEAD Sex Hormone Study

10:15 AM - 12:00 PM

Speaker: Wendy Bennett

124. Prenatal Alcohol and Cannabinoid Co-Exposure Produces Sex-Specific Corticostriatal Transcriptomic Signatures of Alcohol Use.

10:15 AM - 12:00 PM

Speaker: Siara Rouzer

125. Maternal and paternal prenatal alcohol exposures influence adult offspring drinking behaviors, locomotor activity, and compulsivity.

10:15 AM - 12:00 PM

Speaker: Emma Sanz

126. Sex-dependent Regulation of Endothelial Antigen Processing and Presentation Salt-sensitive Hypertension

10:15 AM - 12:00 PM

Speaker: Helen Butler

127. Imaging-derived Lung Metrics During the Menstrual Cycle

10:15 AM - 12:00 PM

Speaker: Kimberly Schroeder

128. Sex and Puberty-Related Brain Structure Differences in Youth With and Without Multisite Pain.

10:15 AM - 12:00 PM

Speaker: Esmeralda Hidalgo-Lopez

130. Sex Differences in the Longitudinal Impact of Oxidative Stress and Mitochondria Metabolism on Memory

10:15 AM - 12:00 PM

Speaker: Kyoko Konishi

131. Hormonal contraceptive use in adolescence and cortical brain metrics: Insights from the ABCD Study

10:15 AM - 12:00 PM

Speaker: Carina Heller

132. The Gendered Effects of Therapeutic Cuddling to Manage Pain in Children in the Pediatric Intensive Care Unit

10:15 AM - 12:00 PM

Speaker: Zara Stelfox

133. Sex-Based Differences in Delirium Detection in Pediatric Intensive Care

10:15 AM - 12:00 PM

Speaker: Zara Stelfox

134. Female brain plasticity: examining the impact of pregnancy and physical exercise in mice

10:15 AM - 12:00 PM

Speaker: Haley Adams

135. A systematic review of the consideration of sex and gender dimensions in the UK's NICE clinical guidelines

10:15 AM - 12:00 PM

137. Peri-menopause is associated with increased disease activity in psoriatic arthritis

10:15 AM - 12:00 PM

Speaker: Lihi Eder

138. Sex differences in early onset colorectal cancer metabolism

10:15 AM - 12:00 PM

Speaker: Oladimeji Aladelokun

139. Inclusion of Pregnant and Lactating Individuals in Randomized Clinical Trials in Asthma Management.

10:15 AM - 12:00 PM

Speaker: Sofia Ahmed

140. Brain Angiotensin II Activity in Memory-Associated Brain Regions

10:15 AM - 12:00 PM

Speaker: Jennifer Gardner

141. Female gonadal hormones during trauma may account for their higher risk for developing PTSD

10:15 AM - 12:00 PM

Speaker: Chieh Chen

142. Sex- and Hormone- Dependent Vulnerabilities of Memory to Acute Traumatic Stress

10:15 AM - 12:00 PM

Speaker: Rachael Hokenson (they/them)

143. Hormone contraceptives prevent stress enhancement of fear via blunted stress responsivity

10:15 AM - 12:00 PM

Speaker: Daniella Ludmir

144. Sex-Specific Microbial Signatures of Stress Susceptibility

10:15 AM - 12:00 PM

Speaker: Arax Tanelian

146. Hormonal Regulation of Cochlear Gene Expression: Effects of the Estrous Cycle, Ovariectomy, and Estradiol Treatment

10:15 AM - 12:00 PM

Speaker: Bohua Hu

148. Sleepless nights during menopause: associations between sleep and cardiometabolic health outcomes

10:15 AM - 12:00 PM

Speaker: Liane Hunter

149. Brain network features reflect early, sex-specific markers of psychotic-like experiences in youth

10:15 AM - 12:00 PM

Speaker: Elvisha Dhamala

151. Impact of the Loss of Ovarian Hormones on Mouse Models of Dementias

10:15 AM - 12:00 PM

Speaker: Charly Abi Ghanem

152. Walking and Cognitive Decline: How APOE Genotype, Sex, and Race Shape Outcomes

10:15 AM - 12:00 PM

Speaker: Joel Burma

153. Association between sleep patterns and depression in older adults with atrial fibrillation

10:15 AM - 12:00 PM

Speaker: Makena Layton

155. Sex hormones derived from cerebrospinal fluid versus blood differentially relate to Alzheimer's disease biomarkers in females

10:15 AM - 12:00 PM

Speaker: Erin Sundermann

156. Pro-inflammatory cytokines are increased in Sub-Saharan African women compared to men

10:15 AM - 12:00 PM

Speaker: Jake Rhodes

107. Changes in the sex/gender ratio of cannabis use prevalence among youth in Ontario, Canada, 1999 to 2023

10:15 AM - 12:00 PM

Speaker: Amanda Namchuk

157. Chronic stress-induced alterations to the activation of new neurons during negative cognitive bias

10:15 AM - 12:00 PM

Speaker: Amanda Namchuk

161. Sex and sex chromosome dosage effects on human cortical anatomy

10:15 AM - 12:00 PM

Speaker: Hyo Lee

163. Sex differences in metabolite associations with Alzheimer's plasma biomarkers

10:15 AM - 12:00 PM

Speaker: Jackie Eissman

164. Chromosomal Sex Effects of TREM2-R47H on the Skeletal System in Gonadal Male and Female Four Core Genotypes Mice at 4 and 5.5 Months

10:15 AM - 12:00 PM

Speaker: Gabriel Ramirez

165. Sex-specific vulnerability to in utero exposure to micro-/nanoplastics

10:15 AM - 12:00 PM

Speaker: Lindsay Cahill

166. The Impact of Policy Gaps on Women's Health During Global Threats

10:15 AM - 12:00 PM

Speaker: Jovita Murillo

167. Sex chromosome overdosage alters epigenomic and transcriptomic landscapes of neural stem cells and impairs their neurogenic potential

10:15 AM - 12:00 PM

Speaker: Antonio Adamo

168. What Drives Sexual Dimorphism in Adrenal Gland Development?

10:15 AM - 12:00 PM

Speaker: Jeff Huang

169. Australian medical research that considered sex as a biological variable: a meta-analysis

10:15 AM - 12:00 PM

Speaker: Arthur Arnold

170. Investigating sex differences in Parkinson's disease

10:15 AM - 12:00 PM

Speaker: Shanie Landen

171. Epigenetic aging in Turner and Klinefelter syndrome: Correlations with clinical aging markers

10:15 AM - 12:00 PM

Speaker: Claus Gravholt

172. Sex-biased gene expression in 1st trimester placenta: implications for hypertensive pregnancy complications

10:15 AM - 12:00 PM

Speaker: Joel Berletch

173. Early life microbial dysbiosis impacts neuroendocrine outcomes in pre-pubertal mice in a sexually dimorphic manner

10:15 AM - 12:00 PM

Speaker: Bistra Nankova

175. Characterizing menopausal hormone therapy use with applications to dementia risk

10:15 AM - 12:00 PM

Speaker: Ursula Saelzler

176. Defining postpartum anxiety: a pilot study

10:15 AM - 12:00 PM

Speaker: Monique Sager

177. The effect of anodal transcranial direct current stimulation over the medial prefrontal cortex on incentive salience and alcohol drinking behavior in rodents

10:15 AM - 12:00 PM

Speaker: Aileen Hakus

12:00 PM - 1:30 PM

Lunch on Your Own

Location: Sawmill

12:00 PM - 1:30 PM

Social Responsibility Lunch Event: Research for All: Navigating Academia During Times of Change

Location: Alvarado ABCD

Speakers: Sandi Dumanski, Elvisha Dhamala, Karthickeyan Chella Krishnan

1:30 PM - 3:15 PM

Elizabeth Young New Investigator and CIHR Young Investigator Awards

Location: Alvarado ABCD

Chair: Katelyn Bruno, Travis Hodges

Chromosomal Sex Effects of TREM2-R47H on the Skeletal System in Gonadal Male and Female Four Core Genotypes Mice at 4 and 5.5 Months

1:30 PM - 1:50 PM

Speaker: Gabriel Ramirez

Sex differences in the relationship between tau pathology, neurodegeneration and depression in carriers of the PSEN1 A431E mutation causing early onset Autosomal Dominant Alzheimer's disease

1:50 PM - 2:10 PM

Speaker: Nancy Ortega

Acute Withdrawal from Alcohol: Behavioral Impacts Across Age and Sex in Rodent Models

2:10 PM - 2:30 PM

Speaker: Tatyanna Montgomery

Angiotensin-converting enzyme inhibition produces sex-specific changes in cardiac fibroblast transcriptome

2:30 PM - 2:50 PM

Speaker: Ashton Jorgensen

Sex differences in medial prefrontal cortical dopamine signaling during context threat discrimination

2:50 PM - 3:10 PM

Speaker: Liv Engel

3:15 PM - 3:30 PM

Break

Location: East Atrium

3:30 PM - 5:30 PM

Biology of Sex Differences Award Winners and Hot Topics

Location: Alvarado ABCD

Speakers: Alex DeCasien, Shanie Landen, Margareta Pisarska, Robert-Paul Juster, Ece Bayram ; Chair: Rebecca Cunningham

Sex differences in the human brain: A roadmap for more careful analysis and interpretation of a biological reality

3:30 PM - 4:00 PM

Speaker: Alex DeCasien

Sex differences in muscle protein expression and DNA methylation in response to exercise training

4:00 PM - 4:30 PM

Speaker: Shanie Landen

Sexually dimorphic DNA methylation and gene expression patterns in human first trimester placenta

4:30 PM - 4:50 PM

Speaker: Margareta Pisarska

Sex and gender correlates of sexually polymorphic cognition

4:50 PM - 5:10 PM

Speaker: Robert-Paul Juster

Sex differences for clinical correlates of substantia nigra neuron loss in people with Lewy body pathology

5:10 PM - 5:30 PM

Speaker: Ece Bayram

3:30 PM - 5:15 PM

Grappling with Sex Chromosome Inequality and Equality in Health and Disease

Location: Franciscan

Speakers: Adrianna San Roman, Diana Dou ; Chair & Speaker: Christine Disteche ; Chair: Arthur Arnold

Genomic contributions to sex differences in human biology

3:30 PM - 4:00 PM

Speaker: Adrianna San Roman

A "complex" issue: When 2 X's need to Xist

4:00 PM - 4:30 PM

Speaker: Diana Dou

Structure and molecular environment of the inactive X chromosome in immune cells

4:30 PM - 5:00 PM

Speaker: Christine Disteche

Q&A

5:00 PM - 5:15 PM

4:00 PM - 4:00 PM

Dinner on Your Own

6:00 PM - 7:30 PM

CIHR Institute of Gender and Health: Canadian Research Reception

Location: Tablao Flamenco Albuquerque

Wednesday, June 04, 2025

7:00 AM - 3:00 PM

Registration Open

Location: North Atrium

7:30 AM - 8:45 AM

Breakfast

Location: East Atrium

8:45 AM - 10:00 AM

OSSD Presidential Symposium - Hormonal Exposure and Cardio-Kidney Health Across the Lifespan

Location: Alvarado ABCD

Chair: Sofia Ahmed

Sex Hormones, Aging, and the Kidney: Unraveling Intersections in Health and Disease

8:45 AM - 9:10 AM

Speaker: Sharanya Ramesh

Exploring the Intersection of Testosterone Therapy Use and Cardiovascular Health

9:10 AM - 9:35 AM

Speaker: Badal Pattar

A Change of HeART: Reproductive Hormones and Cardiovascular Health in Assisted Reproductive Technologies

9:35 AM - 10:00 AM

Speaker: Sandi Dumanski

10:00 AM - 10:15 AM

Break

Location: East Atrium

10:15 AM - 12:00 PM

Acute Cardiovascular Conditions- The Triple Threat in the Emergency Department

Location: Alvarado ABCD

Speakers: Angela Jarman, Pavitra Kotini-Shah, Justin Van Beusecum

Sex Differences in Venous Thromboembolism

10:15 AM - 10:40 AM

Speaker: Angela Jarman

Sex Difference in Acute Myocardial Infarction

10:40 AM - 11:05 AM

Speaker: Basmah Safdar

Sex Hormone Trajectories in Out-of-Hospital Cardiac Arrest

11:05 AM - 11:30 AM

Speaker: Pavitra Kotini-Shah

Sex Differences in the Development of Lupus-Associated Cardiovascular Disease

11:30 AM - 11:55 AM

Speaker: Justin Van Beusecum

Q&A

11:55 AM - 12:00 PM

10:15 AM - 11:45 AM

ORWH Policy Awardees

Location: Franciscan

Chair: Samia Noursi

Introduction

10:15 AM - 10:25 AM

Speaker: Samia Noursi

Sex differences in clinical trial enrollment in the United States across psychiatric disorders

10:25 AM - 10:55 AM

Speaker: Amanda Koire

Vascular dysfunction is associated with elevated asprosin levels in postmenopausal mice.

11:00 AM - 11:30 AM

Speaker: Nefia Chacko

12:00 PM - 1:30 PM

Lunch on Your Own

Location: Sawmill

1:30 PM - 3:15 PM

Leveraging Computational Methods and Large Datasets to Study Sex Differences in Multiscale Human Brain Organization Across the Lifespan, in Health and Disease

Location: Alvarado ABCD

Speakers: Elvisha Dhamala, Claudia Barth, Siyuan Liu ; Chair & Speaker: Bianca Serio ; Co-Chair: Sofie Valk

Brain network features reflect early, sex-specific markers of psychotic-like experiences in youth

1:30 PM - 1:55 PM

Speaker: Elvisha Dhamala

Sex differences in adult functional brain organization: Bridging across scales, from large population cohorts to densely sampled single individuals

1:55 PM - 2:20 PM

Speaker: Bianca Serio

Leveraging big data and causal approaches to study female brain and mental health in aging

2:20 PM - 2:45 PM

Speaker: Claudia Barth

Multimodal mapping of sex differences in the human brain and links to mental health

2:45 PM - 3:10 PM

Speaker: Siyuan Liu

Q&A

3:10 PM - 3:15 PM

1:30 PM - 3:15 PM

Latent Sex Differences in Synaptic Function Within Reward Circuits

Location: Franciscan

Speakers: Dean Kirson, Anant Jain ; Co-Chair & Speaker: Lisa Briand ; Chair & Speaker: Tara LeGates

Latent sex differences underlie plasticity at hippocampus-nucleus accumbens synapses

1:30 PM - 1:55 PM

Speaker: Tara LeGates

Region-specific sex differences in the role of glutamate receptor trafficking proteins in synaptic plasticity

1:55 PM - 2:20 PM

Speaker: Lisa Briand

Sex differences at the junction of alcohol and stress disorders

2:20 PM - 2:45 PM

Speaker: Dean Kirson

Latent sex difference in mechanisms of estradiol-induced excitatory synaptic potentiation

2:45 PM - 3:10 PM

Speaker: Anant Jain

Q&A

3:10 PM - 3:15 PM

3:15 PM - 3:30 PM

Break

Location: East Atrium

3:30 PM - 5:15 PM

SWHR Emerging Scholars in Women's Health Research Award Symposium

Location: Alvarado ABCD

Speakers: Nora Wolcott, Elizabeth Andrews ; Chair: Irene Aninye

SWHR Symposium on Brain Health & Women

3:30 PM - 3:45 PM

Speaker: Irene Aninye

Chronic recording of hippocampus across pregnancy and postpartum reveals long-term structural changes

3:45 PM - 4:10 PM

Speaker: Nora Wolcott

Estrogen receptor α expression is associated with Alzheimer disease pathology in people with Down syndrome

4:10 PM - 4:35 PM

Speaker: Elizabeth Andrews

Traumatic Brain Injury in Women: Avenues for Novel Treatment

4:35 PM - 5:00 PM

Speaker: Kathryn Bates

Panel Q&A Discussion

5:00 PM - 5:15 PM

3:30 PM - 5:15 PM

X chromosome, Brain Aging, and AD

Location: Franciscan

Speakers: Mabel Seto, Michael Belloy, Jessica Young ; Co-Chair & Speaker: Dena Dubal ; Chair: Rachel Buckley

X-linked gene expression is associated with plasma pTau217 levels via Ab-PET and sex in A4/LEARN

3:30 PM - 3:55 PM

Speaker: Mabel Seto

The inactive X chromosome undergoes new escape and contributes cognitive resilience in aging female mice

3:55 PM - 4:20 PM

Speaker: Dena Dubal

X Chromosome Genetics Across Sex, APOE*4, and Pleiotropic Traits Reveals Novel Alzheimer's Disease Risk Genes

4:20 PM - 4:45 PM

Speaker: Michael Belloy

Differential effects of X chromosome dosage and APOE alleles: Relevance for Alzheimer's disease

4:45 PM - 5:10 PM

Speaker: Jessica Young

Q&A

5:10 PM - 5:15 PM

5:15 PM - 5:50 PM

Break

Location: East Atrium

5:30 PM - 6:00 PM

General OSSD Membership and Business Meeting

Location: Alvarado ABCD

6:00 PM - 8:00 PM

Awards Dinner

Location: Alvarado EFGH

Thursday, June 05, 2025

7:00 AM - 12:00 PM

Registration Open

Location: North Atrium

7:30 AM - 8:45 AM

Breakfast

Location: East Atrium

8:45 AM - 10:00 AM

Captstone Lecture: Epigenetic aging in Turner and Klinefelter syndrome: Correlations with clinical aging markers

Location: Alvarado ABCD

Speaker: Claus Gravholt

10:00 AM - 10:15 AM

Break

Location: East Atrium

10:15 AM - 12:00 PM

Sex and Gender Differences in Cancer

Location: Alvarado ABCD

Speakers: Julia Francis, Yu Jing (Jan) Heng ; Chair & Speaker: Sarah Jackson

Sex differences in cancer incidence among people living with HIV

10:15 AM - 10:40 AM

Speaker: Sarah Jackson

Sex differences in cancer incidences across race and ethnicity using a multiethnic cohort in the US

10:40 AM - 11:05 AM

Speaker: Julia Francis

Male immune modulation reduces the efficacy of PARP inhibition in the treatment of Brca1mut breast tumors

11:05 AM - 11:30 AM

Biology, Bias, and Bad News: A Sex and Gendered Look at Cancer in CKD

11:30 AM - 11:55 AM

Speaker: Sandi Dumanski

Q&A

11:55 AM - 12:00 PM

10:15 AM - 12:00 PM

Advancing Integration of Sex and Gender in Research and Clinical Practice Through Whole-Sector Action and Policy Change

Location: Franciscan

Chair: Sofia Ahmed ; Speakers: Mariana Bento, Nabilah Gulamhusein

Better AI for Healthcare Applications: Assessing Sex Differences.

10:15 AM - 10:40 AM

Speaker: Mariana Bento

Bridging the Gap: Enhancing the Integration of Women in Cardiovascular Health Research and Clinical Practice within Canada

10:40 AM - 11:05 AM

Speaker: Nabilah Gulamhusein

TBA

11:05 AM - 11:30 AM

Speaker: Sofia Ahmed

Q&A

11:55 AM - 12:00 PM