



3:15 PM - 4:35 PM

**Hormones and Cardiometabolic Health Across the Lifespan**

Location: Kona Ballroom

**Hormonal Contraceptives Reveal Divergent Metabolic Control Mechanisms in Adolescence Versus Adulthood**

3:15 PM - 3:35 PM

Speaker: Ahmad Mohammad

**Sex Differences in Response to Appetite and Weight Loss Drugs: Natural Products vs Pharmaceutical Therapeutics**

3:35 PM - 3:55 PM

Speaker: Denise Belsham

**Understanding Poorer Stroke Outcomes in Women: Insights from Sry-Modified Rat Model**

3:55 PM - 4:15 PM

Speaker: Kamila Szulc-Lerch

**How Does Menopause Affect Ischemic Stroke Risk and Recovery: Observations From Preclinical and Clinical Studies**

4:15 PM - 4:35 PM

Speaker: Farida Sohrabji

5:00 PM - 7:00 PM

**OSSD Council Meeting - By Invitation Only**

---

**Tuesday, May 12, 2026**

7:00 AM - 9:00 AM

**Breakfast on Your Own**

8:00 AM - 4:00 PM

**Registration Open - See Check In Steps Below**

Location: Grand Promenade

9:00 AM - 9:10 AM

**Welcome - OSSD President, Sofia Ahmed**

Location: Kona Ballroom

Speaker: Sofia Ahmed

9:00 AM - 10:15 AM

**Capstone Lecture: The Women's Health Initiative Hormone Trials revisited - after the 2025 FDA removal of the Black Box Warning on Estrogens**

Location: Kona Ballroom

Keynote Speaker: Marcia Stefanick ; Introduction: Marija Kundakovic

10:15 AM - 10:30 AM

**Break**

Location: Grand Promenade

10:30 AM - 12:30 PM

**Poster Session I**

Location: Kohala 1 & 2

**1. Drug resistance among women with HIV-1 attending antenatal clinics in Ghana**

10:30 AM - 12:30 PM

**2. Sex-specific gaps in cardiovascular psychosocial research: an analysis of studies cited in the AHA's 2021 statement on psychological health and cardiovascular disease**

10:30 AM - 12:30 PM

Speaker: Astha Burande

**3. Systolic hyperreactivity in testosterone-naïve trans and non-binary adults assigned female at birth**

10:30 AM - 12:30 PM

Speaker: Keila Turino Miranda

**4. Outcomes of Percutaneous Coronary Intervention versus Coronary Artery Bypass Grafting in Males and Females with Diabetes and Multivessel Disease**

10:30 AM - 12:30 PM

Speaker: Xiang Xiao

**5. Perm1 Gene Therapy Improves Cardiac Function Only in Females**

10:30 AM - 12:30 PM

Speaker: Omid Rouzbehani

**6. PRDM16 Regulates Chromatin Stability and Sex-Specific Cardiac Function Through Epigenetic Mechanisms**

10:30 AM - 12:30 PM

Speaker: Omid Rouzbehani

**7. Sex differences in placental complications and autism**

10:30 AM - 12:30 PM

Speaker: Alex Tsompanidis

**8. The implementation of diverse female manikins in hospital provider basic life support training**

10:30 AM - 12:30 PM

Speaker: Nicole Tegg

**9. The patient experience of receiving virtual care for gestational diabetes**

10:30 AM - 12:30 PM

Speaker: Sherry Brudnyi

**10. Age and puberty effects on the refinement of functional cortical organization during adolescence**

10:30 AM - 12:30 PM

Speaker: Bianca Serio

**11. Dual hormone obesity treatment improves Alzheimer's disease markers in a sex specific manner**

10:30 AM - 12:30 PM

Speaker: Ahmad Mohammad

**12. Breaking the Cycle: Ovarian Hormones, Cocaine Demand, and Oxytocin Therapy**

10:30 AM - 12:30 PM

Speaker: Amy Kohtz

**13. Menarche as inflection point for mental health and brain development during puberty**

10:30 AM - 12:30 PM

Speaker: Carina Heller

**14. Evaluating sex and gender reporting in human participant studies: piloting the SAGCQA tool to assess antipsychotics trials for autistic people**

10:30 AM - 12:30 PM

Speaker: Madeleine Matthews

**15. Awareness and Understanding in Reproductive Aging: A digital health solution to enhance women's primary care across Alberta**

10:30 AM - 12:30 PM

Speaker: Sela Scott

**16. Sex-Specific Regulation of Endothelial-to-Mesenchymal Transition During Atherosclerosis**

10:30 AM - 12:30 PM

Speaker: Kelsey Watts

**17. Neural signatures of endometriosis**

10:30 AM - 12:30 PM

Speaker: Elle Murata

**18. Sex differences in perinatal brain growth trajectories**

10:30 AM - 12:30 PM

Speaker: Yumnah Khan

**19. Sex differences in social attention at birth**

10:30 AM - 12:30 PM

Speaker: Yumnah Khan

**20. From Brain to Pain: Sex-Related Pathways of Adolescent Multisite Pain Development**

10:30 AM - 12:30 PM

Speaker: Esmeralda Hidalgo-Lopez

**21. Sex- and genotype-dependent effects on the temporal dynamics of hippocampal neurogenesis in a sporadic Alzheimer's disease model**

10:30 AM - 12:30 PM

Speaker: Xinyi Lin

**22. Hormonal Rescue of Mesolimbic Function: Impact of Estrogen vs. Combined HRT on Perimenopausal Dopaminergic Dysregulation**

10:30 AM - 12:30 PM

Speaker: Stephanie Perez

**23. Sex-specific dopamine dynamics following acute partner separation in socially monogamous prairie voles**

10:30 AM - 12:30 PM

Speaker: Lexi Black

**24. Large-scale automated detection reveals pervasive male bias in biomedical research**

10:30 AM - 12:30 PM

Speaker: Lydia Valtadoros

**25. Co-expression network analysis across sex and tissue reveals a female placental-brain axis protective against prenatal PCB exposure**

10:30 AM - 12:30 PM

Speaker: Kelly Chau

**26. Resolving overlapping effects of sex and autism on cellular gene expression in the human cortex**

10:30 AM - 12:30 PM

Speaker: Gabrielle Dugan

**27. Sex and Gender Considerations Within Models, Frameworks, and Strategies Used to Implement Digital Interventions Targeted to Youth Mental Health: a Scoping Review Protocol**

10:30 AM - 12:30 PM

Speaker: Zara Stelfox

**28. Investigating the sex-specific role of CRHBP in pubertal onset in the eusocial naked mole-rat**

10:30 AM - 12:30 PM

Speaker: Julia Mazur

**29. Novel Drug Targeting of a Safe Estrogenic Signaling Axis for Treatment of Peripheral Neuropathy**

10:30 AM - 12:30 PM

Speaker: Magdalena Blaszkiewicz

**30. Experience-dependent epigenetic mechanisms gate psychedelic-induced behavioral plasticity in female mice**

10:30 AM - 12:30 PM

Speaker: Giselle Rojas

**32. Female advantage in identity recognition extends to multisensory contexts: Evidence across sex, gender, and sexual orientation**

10:30 AM - 12:30 PM

Speaker: Jordyn Heron

**33. The roles of sex and sexual orientation in cognitive-motor integration**

10:30 AM - 12:30 PM

Speaker: Jordyn Heron

**34. Stress reshapes gene regulation by estrogen receptor alpha in a sex-dependent manner**

10:30 AM - 12:30 PM

Speaker: Christabel Mclain

**35. Sex-biased gene expression shapes sex differences in gene essentiality**

10:30 AM - 12:30 PM

Speaker: Clarissa Rocca

**36. Interactions between testosterone use and endothelial function in trans and non-binary adults**

10:30 AM - 12:30 PM

Speaker: Shannon Delage

**37. Exploring the long-term effects of parity on cognition: potential role of physical activity**

10:30 AM - 12:30 PM

**38. The atrial natriuretic peptide in diabetic nephropathy in male vs females**

10:30 AM - 12:30 PM

Speaker: Denisha Spires

**39. Sex Differences in the Human Placental Metabolome**

10:30 AM - 12:30 PM

Speaker: Grace Mercer

**40. Validating sex differences in Ai6 reporter mice for lipid nanoparticle-mediated stroke therapy**

10:30 AM - 12:30 PM

Speaker: Ilona Golynger

**41. Sex-specific toxicological effects of maternal methylmercury exposure on offspring neurodevelopment and social behavior**

10:30 AM - 12:30 PM

Speaker: Jessica Bradshaw

**42. Comparable synaptic drive of D1R+MSNs in the NAcSh in adult and aged mice**

10:30 AM - 12:30 PM

Speaker: Heather Aziz

**43. How hard are your vessels? Vascular health in women across reproductive transitions: The role of arterial stiffness, sex, and gendered factors**

10:30 AM - 12:30 PM

Speaker: Dasha Bosyy

**44. Sex and Metabolomics: Metabolic Perturbations Arising in Neurodegeneration Differ by Sex**

10:30 AM - 12:30 PM

Speaker: Rachel Neita

**45. Prescription Hormone Therapy and Binge Eating Symptoms in Perimenopausal Women: Evidence of an Association**

10:30 AM - 12:30 PM

Speaker: Cierra Guinn

**46. Sex and gender analysis of cognitive performance the morning after smoking cannabis**

10:30 AM - 12:30 PM

Speaker: Justin Matheson

**47. Not All Cholesterol Is Equal: Sex and APOE Modify Lipoprotein-Cognition Associations**

10:30 AM - 12:30 PM

Speaker: Joel Burma

**48. Post-Stroke Cognitive-Affective Impairment in Middle-Aged Acyclic Rats is Attenuated By.**

10:30 AM - 12:30 PM

Speaker: Kaylin Pickle

**49. Sex differences in daily cognition, self-concept, and mental health and their fluctuations in older adults: A 100-day study**

10:30 AM - 12:30 PM

Speaker: T. Ariel Yang

**50. Sex-specific vulnerability to polypropylene microplastics during pregnancy**

10:30 AM - 12:30 PM

Speaker: Haley Adams

**51. Sleep Habits Associated with Telomere Length in Young African American Adult:**

**The Role of Gender**

10:30 AM - 12:30 PM

**52. Age affects hormone levels and neuroinflammation in response to cognitive bias testing in stressed male and female rats**

10:30 AM - 12:30 PM

Speaker: Travis Hodges

**53. Effects of caffeine on oral self-administration of morphine in male and female Sprague-Dawley rats**

10:30 AM - 12:30 PM

Speaker: Megan Bertholomey

**12:30 PM - 2:00 PM**

**Trainee / Mentor Lunch**

Location: Kona Ballroom

**2:00 PM - 3:45 PM**

**Charting and Dissecting Trajectories of Sex-Biased Brain Development**

Location: Kona Ballroom

Chair: Aaron Alexander-Bloch ; Co-Chair: Leah Somerville ; Speakers: Margaret Gardner, Armin Raznahan, Jason Lerch

**Brain Charts for Sex Differences in Normative Brain Structure Across the Lifespan**

2:00 PM - 2:25 PM

Location: Kona Ballroom

Speaker: Margaret Gardner

**Pubertal and Hormonal Impacts on Human Neurodevelopment: Commonalities and Differences Across Males and Females**

2:25 PM - 2:50 PM

Location: Kona Ballroom

Speaker: Leah Somerville

**Mechanistic Parsing of Adult Sex-Differences in Human Using Medical Models**

2:50 PM - 3:15 PM

Location: Kona Ballroom

Speaker: Armin Raznahan

**Mouse Trajectories as a First Step to Mechanistic Parsing in Animal Models**

3:15 PM - 3:40 PM

Location: Kona Ballroom

Speaker: Jason Lerch

**2:00 PM - 3:45 PM**

**SCORE Program Investigates Sex Influences of Substance Use Disorders to Improve Women's Health**

Location: Kohala 3

Chair: Rajeev Agarwal ; Co-Chair: Aimee McRae-Clark ; Speakers: Daria Ilatovskaya, Erin Martin, Leo Jimenez Chavez

**ORWH Specialized Centers of Research Excellence (SCORE) on Sex Differences**

2:00 PM - 2:25 PM

Location: Kohala 3

Speaker: Rajeev Agarwal

**Sex Differences in the Cardiorenal Impact of Nicotine Use: Why Cessation is Not Enough**

2:25 PM - 2:50 PM

Location: Kohala 3

Speaker: Daria Ilatovskaya

**The Role of Progesterone in Treatment Development for Cannabis Use Disorder**

2:50 PM - 3:15 PM

Location: Kohala 3

Speaker: Erin Martin

**A Global Perspective of Sex Differences in Drinking Recommendations and Alcohol-Related Health Consequences**

3:15 PM - 3:40 PM

Location: Kohala 3

Speaker: Leo Jimenez Chavez

2:00 PM - 3:45 PM

### **Sex Dimorphism in Metabolic and Vascular Health and Immunometabolism**

Location: Kohala 4

Chair: Lin Zhu ; Speakers: Kristy Townsend, Xia Yang, Heddwen Brooks

#### **Sex Differences in Metabolic and Nervous System Health with Aging and Hormone Treatments**

2:00 PM - 2:25 PM

Location: Kohala 4

Speaker: Kristy Townsend

#### **Systems Genomics of Sex Differences in Metabolic Disorders**

2:25 PM - 2:50 PM

Location: Kohala 4

Speaker: Xia Yang

#### **Sex Differences in Hypertension, Diabetes, and the Immune System: Why Menopause Matters**

2:50 PM - 3:15 PM

Location: Kohala 4

Speaker: Heddwen Brooks

#### **Can We Restore Cardiometabolic Benefits in Elderly Women? Hormone Therapy, Liver Metabolism, and Atherosclerosis Regression**

3:15 PM - 3:40 PM

Location: Kohala 4

Speaker: Lin Zhu

3:45 PM - 4:00 PM

### **Break**

Location: Grand Promenade

4:00 PM - 5:45 PM

### **Incorporating Sex and Gender Differences to Inform on Stress Disorders and Cognitive Bias**

Location: Kona Ballroom

Chair: Derya Sargin ; Co-Chair: Amanda Namchuk ; Speakers: Robert-Paul Juster, Etienne Sibille

#### **Characterizing the Sex-Specific Functional Networks Underlying Chronic Stress-Induced Negative Cognitive Bias**

4:00 PM - 4:25 PM

Location: Kona Ballroom

Speaker: Amanda Namchuk

#### **Beyond the Binary: Unraveling Sexually Polymorphic Cognition Across Biological and Sociocultural Dimensions**

4:25 PM - 4:50 PM

Location: Kona Ballroom

Speaker: Robert-Paul Juster

#### **Sex Differences in Long-term Stress Susceptibility after Adolescent Stress Exposure**

4:50 PM - 5:15 PM

Location: Kona Ballroom

Speaker: Derya Sargin

#### **Distinct Patterns of Sex Differences in Depression-Related Cell-Dependent Mechanisms in Human Postmortem Samples and Rodent Models**

5:15 PM - 5:40 PM

Location: Kona Ballroom

Speaker: Etienne Sibille

4:00 PM - 5:45 PM

**Female-Specific Drivers of Tauopathies: From Chromosomes to Cognition**

Location: Kohala 3

Chair: Erin Sundermann ; Co-Chair: Kaitlin Casaletto ; Speakers: Madeline Wood Alexander, Francesca Marino, Bonnie Lee

**Large-Scale Cerebrospinal Fluid Proteomics Reveals Biological Mediators of Sex Differences in Alzheimer's Disease Tau Burden**

4:00 PM - 4:20 PM

Location: Kohala 3

Speaker: Kaitlin Casaletto

**Identifying the Plasma Proteomic Signature of Spontaneous Menopause: Implications for Late-Life Brain Aging and Alzheimer's Disease**

4:20 PM - 4:40 PM

Location: Kohala 3

Speaker: Madeline Wood Alexander

**The Paternal X Chromosome Activates Gene Expression Across Hippocampal Cell Types in Female Tauopathy Model Mice**

4:40 PM - 5:00 PM

Location: Kohala 3

Speaker: Francesca Marino

**Female-Specific Factors in Brain Aging: Insights from a Rodent Model of Alzheimer's Disease Risk and Humans**

5:00 PM - 5:20 PM

Location: Kohala 3

Speaker: Bonnie Lee

**Sex Hormones from Cerebrospinal Fluid (CSF) Versus Blood Differentially Relate to Alzheimer's Disease Biomarkers in Females**

5:20 PM - 5:40 PM

Location: Kohala 3

Speaker: Erin Sundermann

4:00 PM - 5:45 PM

**Biology of Sex Differences in Renovascular Metabolism**

Location: Kohala 4

Chair: Oleg Palygin ; Co-Chair: Denisha Spires ; Speakers: Jessica Faulkner, Justin Van Beusecum, Georgina Gyarmati

**Mitochondrial Metabolism in Placental Cells During Preeclampsia**

4:00 PM - 4:25 PM

Location: Kohala 4

Speaker: Jessica Faulkner

**Endothelial Antigen Presentation: A Sex-Dependent Immune Trigger in Salt-Sensitive Hypertension**

4:25 PM - 4:50 PM

Location: Kohala 4

Speaker: Justin Van Beusecum

**Sex-Specific Renin-Angiotensin System and Nitric Oxide Balance in Renovascular Function**

4:50 PM - 5:15 PM

Location: Kohala 4

Speaker: Georgina Gyarmati

**Targeted Metabolomics Identifies Sex Specific Mitochondrial Pathways in the Diabetic Kidney**

5:15 PM - 5:40 PM

Location: Kohala 4

Speaker: Oleg Palygin

5:45 PM - 6:30 PM

**Break**

Location: Grand Promenade

6:30 PM - 7:30 PM

**Opening Reception**

Location: Lagoon Lanai

7:30 PM - 8:30 PM

**Trainee Networking Social**

Location: Grand Staircase

7:35 PM - 9:00 PM

**Dinner on Your Own**

---

**Wednesday, May 13, 2026**

7:00 AM - 9:00 AM

**Breakfast on Your Own**

8:00 AM - 5:00 PM

**Registration Open - See Check In Steps Below**

9:00 AM - 10:45 AM

## Hot Topics in Sex Differences Research - Molecular Insights into Sex-Biased Physiology and Disease Risk

Location: Kona Ballroom

Chair: Marija Kundakovic ; Speakers: Joel Berletch, Bohua Hu, Devin Rocks, Kahlilia Morris-Blanco, Luisa Demarchi, Christine Disteche

### Cell type-specific sex differences in gene expression in human 1st trimester placenta: implications for hypertensive pregnancy complications

9:00 AM - 9:17 AM

Location: Kona Ballroom

Speaker: Joel Berletch

### Decoding Sex Differences in the Cochlea: Transcriptomic Profiling Reveals Sex- and Hormone-Dependent Gene Regulation in the Mouse Cochlea

9:17 AM - 9:34 AM

Location: Kona Ballroom

Speaker: Bohua Hu

### Sex-Dependent Effects of Stress on Metabolism and Motivation: A Role for Cortical Leptin Signaling

9:34 AM - 9:51 AM

Location: Kona Ballroom

Speaker: Devin Rocks

### Sex-Specific Epigenetic Regulation Shapes Brain Mitochondria and Metabolism

9:51 AM - 10:08 AM

Location: Kona Ballroom

Speaker: Kahlilia Morris-Blanco

### The role of the (in)active X chromosome in a sex-specific brain plasticity

10:08 AM - 10:25 AM

Location: Kona Ballroom

Speaker: Luisa Demarchi

### Gastruloids with Variable Number of Sex Chromosomes as Models of Early Development

10:25 AM - 10:42 AM

Location: Kona Ballroom

Speaker: Christine Disteche

9:00 AM - 10:45 AM

## The Microvascular Aging Effects - Women's Evaluation of Systemic aging Tenacity in Heart, Brain and Frailty (MAE-WEST HBF) ("You are never too old to become younger!")

Location: Kohala 3

Speakers: Janet Wei, Pascal Sati, Michael Nelson, Arzu Has Silemek

### Coronary Microvascular Disease and HFpEF

9:00 AM - 9:25 AM

Location: Kohala 3

Speaker: Janet Wei

### MAE-WEST HBF SCORE Project 2: Investigating the relationships between Coronary Microvascular Disease, Cerebral Small Vessel Disease and Cognition

9:25 AM - 9:50 AM

Location: Kohala 3

Speaker: Pascal Sati

### Microvascular Frailty and Sarcopenia

9:50 AM - 10:15 AM

Location: Kohala 3

Speaker: Michael Nelson

### Brain-Heart Axis in Microvascular Aging - An Example of Cross-Organ Integration

10:15 AM - 10:40 AM

Location: Kohala 3

Speaker: Arzu Has Silemek

9:00 AM - 10:45 AM

## Environmental Toxicants, Sex Differences, and Human Health Consequences

Location: Kohala 4

Chair: Rebecca Cunningham ; Speakers: Aaron Roberts, Rachel Leads, Amie Lund

### From Contamination to Consequences: Prenatal Environmental Mercury Exposure and Developmental Health Impacts

9:00 AM - 9:25 AM

Location: Kohala 4

Speaker: Rebecca Cunningham

### Sex Specific Effects of Dietary Methylmercury Exposure in Fishes

9:25 AM - 9:50 AM

Location: Kohala 4

Speaker: Aaron Roberts

### Chemical and Physiological Factors Impacting PFAS Bioaccumulation in Fishes

9:50 AM - 10:15 AM

Location: Kohala 4

Speaker: Rachel Leads

### Invisible Threats: The Impact of Air Pollution on the Gut Microbiome and Metabolic Health

10:15 AM - 10:40 AM

Location: Kohala 4

Speaker: Amie Lund

- 54. Examining Sex Differences in Risk-Related Behaviors and Neuroendocrine Relations in Hormonal Contraceptive Users**  
10:45 AM - 12:30 PM  
Speaker: Christel Portengen
- 55. Non-Canonical Endothelin System Activation by Autoantibodies as a Mechanistic Pathway to SLE-Associated Vascular Dysfunction in Women**  
10:45 AM - 12:30 PM  
Speaker: Helen Butler
- 56. Sex Differences in Radiation-Induced Cardiotoxicity**  
10:45 AM - 12:30 PM  
Speaker: Emily Whelan
- 57. Sex Differences in Metabolic and Inflammatory Signaling Following Diesel Exhaust Particle Exposure**  
10:45 AM - 12:30 PM  
Speaker: Victoria Youngblood
- 58. Dissecting Chromosomal and Hormonal Sex Effects on Immune Responses in Myocarditis**  
10:45 AM - 12:30 PM  
Speaker: Sarah Broders
- 59. The Impacts of Estrogen Receptor Antagonization on Neurodegeneration and Neuroinflammation in Retinitis Pigmentosa**  
10:45 AM - 12:30 PM  
Speaker: Ashley Rowe
- 60. Role of Physical Activity and Biological Sex on Hippocampal Subregion Volume in a Multiethnic Cohort**  
10:45 AM - 12:30 PM  
Speaker: Jansie Nel
- 61. Elevated Endothelin-1/Endothelin Receptor A Signaling Identifies a Female-Specific Cardiovascular Risk Pathway in Systemic Lupus Erythematosus**  
10:45 AM - 12:30 PM  
Speaker: Marice McCrorey
- 62. Etiologic Evaluation of Primary Ovarian Insufficiency: Clinical Practice Patterns and Determinants of Incomplete Assessment**  
10:45 AM - 12:30 PM  
Speaker: Sara Stockman
- 63. Retrosplenial Cortex Parvalbumin Interneurons in Cognitive Performance: Implications for Sex-Dependent Difference in Alzheimer's Disease**  
10:45 AM - 12:30 PM  
Speaker: Yi Ren
- 64. The Effect of Polycystic Ovary Syndrome on the Exercise Pressor Reflex**  
10:45 AM - 12:30 PM  
Speaker: Brittany Schwende
- 65. Life in Plastic: How Does Perinatal Nanoplastic Exposure Shape Maternal Behaviour and Sex-Specific Neuroendocrine-Immune Outcomes in Offspring?**  
10:45 AM - 12:30 PM  
Speaker: Lucas Fowler
- 66. Histone Seronylation-Associated Gene Expression Patterns in the Dorsal Raphe Nucleus are Regulated by Hormonal Status in Females**  
10:45 AM - 12:30 PM  
Speaker: Rasika Iyer
- 67. Menopausal Transition is Associated with Alzheimer Dementia Onset in Women with Down Syndrome**  
10:45 AM - 12:30 PM  
Speaker: Elizabeth Andrews
- 68. Menopausal Status at Oophorectomy Modifies Risk for Depression, Bone Loss, and Cognitive Change**  
10:45 AM - 12:30 PM  
Speaker: Darius Miranda-Sohrabji
- 69. Placental Interleukin-6 Predicts Infant Frontal Asymmetry, Brain Growth, and Externalizing Behaviors: Sex-Specific Developmental Risk**  
10:45 AM - 12:30 PM  
Speaker: Elizabeth Wood
- 70. TLR7 Activation Disrupts Associative Learning in Male and Female Mice**  
10:45 AM - 12:30 PM  
Speaker: Madison Clark
- 71. Genetic Exploration of Depression Onset in Females**  
10:45 AM - 12:30 PM  
Speaker: Hannah Oppenheimer
- 72. Exploring Sex Differences in Associations Between Pubertal Timing and Antisocial Behavior Trajectories**  
10:45 AM - 12:30 PM  
Speaker: Alaina Di Dio
- 73. Sex-Biased Regulation of CD4+ T Cell Cytotoxicity and Exhaustion Under Chronic TCR Stimulation**

10:45 AM - 12:30 PM

Speaker: Oksana Goroshchuk

**74. Exploring the Sex Differences of Huntington's Disease Using Biomedical Imaging in a Humanized Mouse Model**

10:45 AM - 12:30 PM

Speaker: Jenna Hanrahan

**75. Studying Sex Differences in Lipid Droplet Metabolism and Neurodegeneration Using *Drosophila Melanogaster***

10:45 AM - 12:30 PM

Speaker: Bea Liston

**76. Microglial epigenetics shape sex-specific stroke outcomes**

10:45 AM - 12:30 PM

Speaker: Jordan Gross

**77. Sex-specific links between sleep duration, hypertension, and plasma ptau181**

10:45 AM - 12:30 PM

Speaker: Kitty Lui

**78. The Medical Education Impact of AMWA's Sex and Gender Health Collaborative**

10:45 AM - 12:30 PM

Speaker: Maya Beesley

**79. Utilizing metabolomics to investigate sex variation across early human neurodevelopment**

10:45 AM - 12:30 PM

Speaker: Sneha Chaturvedi

**80. Greater neuromuscular fatigability in females than males during dynamic knee extension exercise post stroke**

10:45 AM - 12:30 PM

Speaker: Zhilun Zhou

**81. Impact of age at natural menopause on cerebral macrovascular flow**

10:45 AM - 12:30 PM

Speaker: Zhilun Zhou

**82. Parity differences in early postpartum central monoamine metabolite concentrations of rhesus macaques**

10:45 AM - 12:30 PM

Speaker: Elia Hafen

**83. X-Linked and Autosomal microRNA Expression in Alzheimer's Disease**

10:45 AM - 12:30 PM

Speaker: Amy Shiyab

**84. Investigating the link between cardiovascular autonomic regulation and cognitive control in females with polycystic ovary syndrome**

10:45 AM - 12:30 PM

Speaker: Alicia Duval

**85. Decoding the X-chromosome: investigating the sex-specific genetic architecture of multiple system atrophy**

10:45 AM - 12:30 PM

Speaker: Anindita Ray

**86. Sex differences in the impact of social determinants of health on substance use disorder treatment outcomes**

10:45 AM - 12:30 PM

Speaker: Leo Jimenez Chavez

**87. Exploring sex differences in inhibition of prefrontal cortical dopamine during a novel context threat discrimination task**

10:45 AM - 12:30 PM

Speaker: Liv Engel

**88. Sex-specific placental-fetal adaptations to prenatal alcohol and cannabinoid exposure**

10:45 AM - 12:30 PM

Speaker: Nadia Samiya

**89. Protein synthesis in the female *Drosophila* larval fat body drives multiple aspects of cellular metabolism**

10:45 AM - 12:30 PM

Speaker: Celena Cherian

**90. Regulation of stress and depression by oral contraceptives**

10:45 AM - 12:30 PM

Speaker: Kristen Schuh

**91. Skeletal muscle mitochondrial and functional deficits are present in both male and female mice of the TAZKO model of Barth syndrome**

10:45 AM - 12:30 PM

Speaker: Drake Christie

**92. Sex Differences in Angiotensin II Signaling in Memory-Related Brain Regions in Aged Rats**

10:45 AM - 12:30 PM

Speaker: Jennifer Gardner

**93. Role of a Y-Linked histone demethylase, Kdm5d, in sex-biased behaviors**

10:45 AM - 12:30 PM

Speaker: Maxwell Miyasato

**94. Multi-Omic Signatures Linking Menopause Timing to Brain Aging**

10:45 AM - 12:30 PM  
Speaker: Pia Campagna

**95. Phthalate Metabolism and Reproductive Toxicity: Why Sex Matters**

10:45 AM - 12:30 PM  
Speaker: Estela Jauregui

**96. The Impact of Gestational Exposure to Polystyrene Nanoplastics on Cardiac Development and Function in Mice Offspring**

10:45 AM - 12:30 PM  
Speaker: Thomas O'Brien

**97. Alzheimer's disease progression and neuroimmune activity in a mouse model of oral contraceptive exposure**

10:45 AM - 12:30 PM  
Speaker: Leah Conrad

**98. Hippocampal AT1 signaling and oxidative stress exhibit sex-dependent responses to chronic intermittent hypoxia**

10:45 AM - 12:30 PM  
Speaker: Tyler Armstrong

**99. The association between sex, age, and household adult mental illness during childhood on current mental health among adults**

10:45 AM - 12:30 PM  
Speaker: Leiah Alvez

**100. Menstrual cycle phase-specific vascular function in individuals living with chronic kidney disease: an exploratory study**

10:45 AM - 12:30 PM  
Speaker: Neha Pattar

**101. Management of chronic kidney disease in transgender individuals**

10:45 AM - 12:30 PM  
Speaker: Badal (Brandon) Pattar

**102. Sex differences and estradiol modulation of somatic symptoms of morphine withdrawal in rats**

10:45 AM - 12:30 PM  
Speaker: Tiffany Aguirre

**103. Sex differences in DNA methylation are tissue-specific with ageing**

10:45 AM - 12:30 PM  
Speaker: Danielle Hiam

**104. Biochemical flux uncoupling: mapping endocrine-metabolic trajectories of the menopausal transition to predict GLP-1RA susceptibility**

10:45 AM - 12:30 PM  
Speaker: Chelsea Page

**105. An examination of lifestyle behaviors, domain-specific cognition, and tau in women at risk for Alzheimer's disease**

10:45 AM - 12:30 PM  
Speaker: Celina McDowell

**106. Does Cumulative Stress Burden Impact Cognitive Screening Performance?**

10:45 AM - 12:30 PM  
Speaker: Michelle Grady

**107. Sex stratified metabolic correlates of selective serotonin reuptake inhibitor treatment failure in major depressive disorder**

10:45 AM - 12:30 PM  
Speaker: Mary Dickson-Amagada

**108. The TET3 Epigenetic Regulator Promotes Sex-Specific Neuroprotection After Ischemic Stroke**

10:45 AM - 12:30 PM  
Speaker: Sylvania Pietrzak

**109. Hormonal contraceptive links to brain structure underlying spatial cognition**

10:45 AM - 12:30 PM  
Speaker: Ran Yan

**12:30 PM - 2:00 PM**

**Social Responsibility Lunch - The State of Sex Differences Research: Navigating Challenges, Celebrating Advancements, and Upholding Social Responsibility**

Location: Kona Ballroom

Moderator & Committee Co-Chair: Elvisha Dhamala, Karthickeyan Chella Krishnan

2:00 PM - 3:45 PM

**Elizabeth Young New Investigator**

Location: Kona Ballroom  
Chair: Ashlyn Swift-Gallant, Travis Hodges

**Stress Reshapes Gene Regulation by Estrogen Receptor Alpha in a Sex-Dependent Manner**

2:00 PM - 2:20 PM  
Speaker: Christabel Mclain

**From Brain to Pain: Sex-Related Pathways of Adolescent Multisite Pain Development**

2:20 PM - 2:40 PM  
Speaker: Esmeralda Hidalgo-Lopez

**Multi-Omic Signatures Linking Menopause Timing to Brain Aging**

2:40 PM - 3:00 PM  
Speaker: Pia Campagna

**Sex Differences in Radiation-Induced Cardiotoxicity**

3:00 PM - 3:20 PM  
Speaker: Emily Whelan

**Combined Influence of Earlier Age at Menopause and Lower Left Ventricular Ejection Fraction on Brain Health**

3:20 PM - 3:40 PM  
Speaker: Tallinn Splinter

3:45 PM - 4:00 PM

**Break**

Location: Grand Promenade

4:00 PM - 5:45 PM

**The Longitudinal Menopause Project: A Precision Approach for Investigating the Midlife Menopause Transition, from Large-Scale Multi-Omics and Neuroimaging to Sleep-Wake Cycles and Hormone Therapy**

Location: Kona Ballroom  
Chair: Judy Pa ; Speakers: Emily Jacobs, Kaitlin Casaletto, Suzanne Baker, Rachel Buckley

**Chair Session Opening**

4:00 PM - 4:05 PM  
Speaker: Judy Pa

**Menopause and Aging: Implications for Brain Health**

4:05 PM - 4:20 PM  
Speaker: Rachel Buckley

**Mapping Brain Changes Across the Menopausal Transition: Insights from Precision Imaging**

4:20 PM - 4:35 PM  
Location: Kona Ballroom  
Speaker: Emily Jacobs

**Menopause as a Window Into Alzheimer's Disease Pathogenesis**

4:35 PM - 4:50 PM  
Location: Kona Ballroom  
Speaker: Kaitlin Casaletto

**Capturing Sleep and Physical Activity Across Menopausal Transition**

4:50 PM - 5:05 PM

**The Impact Of Menopausal Hormone Therapy And Hormone Fluctuations On Myelin, Cerebral Blood Flow And Glymphatic Clearance**

5:05 PM - 5:20 PM  
Location: Kona Ballroom  
Speaker: Suzanne Baker

**Panel Discussion**

5:20 PM - 5:45 PM

4:00 PM - 5:45 PM

**GLP-1 and its Analogues: Does Sex Matter?**

Location: Kohala 3  
Chair: Karolina Skibicka ; Speakers: David Tingley, Morgan Sotzen

**Sex Matters in Metabolic Impact of GLP-1 Analogues**

4:00 PM - 4:25 PM  
Location: Kohala 3  
Speaker: Karolina Skibicka

**Sex Differences in GLP-1 Signaling Across Species**

4:25 PM - 4:50 PM  
Location: Kohala 3  
Speaker: David Tingley

**GLP-1 Analogue, Semaglutide, Affects Male and Female Reproductive Systems in Rats**

4:50 PM - 5:15 PM  
Location: Kohala 3  
Speaker: Morgan Sotzen

4:00 PM - 5:45 PM

### Biology of Sex Differences Hot Topics

Location: Kohala 4

Chair: Jill Becker ; Speakers: Sneha Chaturvedi, David Waters, Sean Li, Alice Kane, John Stallone

#### Chromosomal and Gonadal Sex Have Differing Effects on Social Motivation in Mice

4:00 PM - 4:20 PM

Location: Kohala 4

Speaker: Sneha Chaturvedi

#### A Life-Course Approach to the Biology of Sex-Differences in Frailty: Early-life Gonadectomy Diminishes Late-life Robustness in Male and Female Dogs in the Exceptional Aging in Rottweilers Study

4:20 PM - 4:40 PM

Location: Kohala 4

Speaker: David Waters

#### Sex-Biased Evolution of Bladder Cancer

4:40 PM - 5:00 PM

Location: Kohala 4

Speaker: Sean Li

#### Sex Dimorphism and Tissue Specificity of Gene Expression Changes in Aging Mice

5:00 PM - 5:20 PM

Location: Kohala 4

Speaker: Alice Kane

#### The Role of Sex Differences in Cardiovascular, Metabolic, and Immune Functions in Health and Disease: A Review for "Sex Differences in Health Awareness Day"

5:20 PM - 5:40 PM

Location: Kohala 4

Speaker: John Stallone

5:00 PM - 5:00 PM

Dinner on Your Own

6:30 PM - 8:00 PM

CIHR Institute of Gender and Health: Canadian Research Reception

Location: Grand Staircase

---

## Thursday, May 14, 2026

7:00 AM - 9:00 AM

Breakfast on Your Own

9:00 AM - 10:15 AM

Education Event - The Interaction of Sex and Age: Why It Matters and How to Model It

Location: Kona Ballroom

Moderator: DeLisa Fairweather, Erin Sundermann ; Panelist: Alexandra DeCasien, Dena Dubal, Karen Reue

10:30 AM - 12:30 PM

Poster Session III

Location: Kohala 1 & 2

#### 110. From protection to predisposition: a scoping review of sex-specific vascular responses to acute stressors across the lifespan

10:30 AM - 12:30 PM

Speaker: Mya Lax

#### 111. Sex and Gender Inclusion in Health and Medical Research Organisations and University Curricula in Victoria, Australia

10:30 AM - 12:30 PM

Speaker: Severine Lamon

#### 112. Profiling sex differences in human skeletal muscle ageing

10:30 AM - 12:30 PM

Speaker: Severine Lamon

#### 113. Hypoxia-induced risk for depression and anxiety can vary with age

10:30 AM - 12:30 PM

Speaker: Shami Kanekar

#### 114. Italian National Institute of Health for the application and dissemination of gender medicine in Italy

10:30 AM - 12:30 PM

Speaker: Massimo D'Archivio

#### 115. Sex-specific effects of Acetaminiprid on adipose tissue in severe obesity

10:30 AM - 12:30 PM

Speaker: Massimo D'Archivio

#### 116. Sex disparities in guideline-recommended care for late-onset hypertension and chronic kidney disease: a population-based cohort study

10:30 AM - 12:30 PM

Speaker: Ann Bugeja

#### 117. Sex differences in cancer incidence among people living with HIV in the US, 2001-2019

10:30 AM - 12:30 PM

Speaker: Sarah Jackson

**119. Addressing Sex Based Diagnostic Bias in Thyroid Disease Across the Female Life Course Using Sex Aware Artificial Intelligence**

10:30 AM - 12:30 PM

Speaker: Miyuki Katai

**120. Women's Health Education in Medical School Research Projects**

10:30 AM - 12:30 PM

Speaker: Jinko Yokota

**121. Post-stroke brain damage is exacerbated in males, but not females, by the loss of m6A reader YTHDF1**

10:30 AM - 12:30 PM

**122. Sex and gender analysis of next-day driving performance**

10:30 AM - 12:30 PM

Speaker: Patricia Di Ciano

**123. Investigating long-term effects of gender-affirming hormone therapy in murine model co-exposed to DEHP as model compound**

10:30 AM - 12:30 PM

Speaker: Francesca Maranghi

**124. Unified structural–functional brain connectivity predicts coronary microvascular dysfunction and cognition in women with suspected INOCA**

10:30 AM - 12:30 PM

Speaker: Arzu Has Silemek

**125. Menopause, Migraines and Chest Pain in the Canadian Coronary Microvascular Disease Registry**

10:30 AM - 12:30 PM

Speaker: Emilie Theberge

**126. About the National Institutes of Health (NIH) Office of Research on Women's Health (ORWH): 35 years of research on the health of women**

10:30 AM - 12:30 PM

Speaker: Samia Noursi

**127. Fractionation of sex differences in human brain anatomy**

10:30 AM - 12:30 PM

Speaker: Hyo Lee

**128. Chronic cocaine exposure alters the balance of sex-specific approach/avoidance decision-making**

10:30 AM - 12:30 PM

Speaker: Clementine Blaschke

**129. Sex-specific differences in the transcriptomic profile of the human habenula**

10:30 AM - 12:30 PM

Speaker: Sarah Cameron

**130. Opportunities to advance sex-difference discovery in postmortem brain studies of major psychiatric disorders (1974-2024)**

10:30 AM - 12:30 PM

Speaker: Sarah Cameron

**131. The maternal X chromosome modulates gene expression across hippocampal cell types and sexes**

10:30 AM - 12:30 PM

Speaker: Jillybeth Burgado

**132. Sex-dependent regulation of microglial autophagy by arginine-driven GPRC6A signaling**

10:30 AM - 12:30 PM

Speaker: Akiko Mizokami

**133. Exploring sex differences in associations between adolescent eating disorder symptoms, BMI, and body fat percentage**

10:30 AM - 12:30 PM

Speaker: Ronan Scott

**134. Significant weight loss triggered by a plant hormone in mice fed a high fat diet: Unique sex-specific mechanisms uncovered in female mice**

10:30 AM - 12:30 PM

Speaker: Denise Belsham

**135. Sex-specific depressive-like endophenotypes in response to maternal CORT and immune perturbations**

10:30 AM - 12:30 PM

Speaker: Romina Garcia de leon

**136. Biological sex and sleep shape hippocampus-memory dynamics across stages of cognitive impairment**

10:30 AM - 12:30 PM

Speaker: Alana Brown

**137. Sex-specific renal responses to salt and nicotine in hypertension**

10:30 AM - 12:30 PM

Speaker: A Jones

**138. Exploring sex differences in associations between ADHD symptoms and pubertal status and age in pre-adolescent and adolescent boys and girls**

10:30 AM - 12:30 PM

Speaker: Sarah Jones

**139. Sex-dependent vulnerability to polypharmacy in cognitive, functional, and metabolic outcomes during aging**

10:30 AM - 12:30 PM  
Speaker: Francesca Eroli

**140. Exploring sex-specific risk factors for alcohol use problems in women: The importance of positive urgency**

10:30 AM - 12:30 PM  
Speaker: Jelena Simon

**141. Sex-specific metabolic responses to a plant-based diet in the BPH/5 mouse**

10:30 AM - 12:30 PM  
Speaker: Isabella Faulkner

**142. The sex-specific effects of quipazine on hyperarousal and binge drinking in male and female Sprague-Dawley rats**

10:30 AM - 12:30 PM  
Speaker: Cat Marchando

**143. Cardiovascular disease in adult male and female offspring of preeclamptic-like BPH/5 mice**

10:30 AM - 12:30 PM  
Speaker: Scott Butler

**144. Disrupted beginnings: How early attachment shapes socioemotional development**

10:30 AM - 12:30 PM  
Speaker: Lily McGee

**145. Assessing genistein-mediated sex-dependent effects in a mouse model of cystic fibrosis**

10:30 AM - 12:30 PM  
Speaker: Layla Al-Nakkash

**146. Brain-memory associations do not differ by sex in healthy aging**

10:30 AM - 12:30 PM  
Speaker: Anne Ravndal

**147. Estradiol Modulation of Morphine Withdrawal-Induced Anxiety**

10:30 AM - 12:30 PM  
Speaker: Davis Van Dyk

**148. Sex differences in high-grade glioma gene expression**

10:30 AM - 12:30 PM  
Speaker: Lee Curtin

**149. An Inclusive Dual-Format Measure for Categorizing Youth Gender and Sexuality**

10:30 AM - 12:30 PM  
Speaker: Kalysha Closson

**150. Cell type-specific sex differences in gene expression in human 1st trimester placenta: implications for hypertensive pregnancy complications**

10:30 AM - 12:30 PM  
Speaker: Joel Berletch

**151. Investigating sex differences in the regulation of conditioned morphine reward by orexin**

10:30 AM - 12:30 PM  
Speaker: Farzana Akter Koly

**152. Molecular mechanisms underlying the regulation of metabolic function by ovarian hormones**

10:30 AM - 12:30 PM  
Speaker: Laila Ouldibbat

**153. The sexually dimorphic mouse adrenal gland**

10:30 AM - 12:30 PM  
Speaker: Jeff Huang

**154. X Chromosome Dosage and APOE e4 Interact to Modulate Alzheimer's Disease Biology in Human Neurons and Microglia**

10:30 AM - 12:30 PM  
Speaker: Michelle Casad

**155. Sex-Specific Regulation of Lysosomal Dysfunction and APP Processing in Alzheimer's Disease: Insights into Therapeutic Targeting of the Neu1-PPCA Axis**

10:30 AM - 12:30 PM  
Speaker: Gouri Yogalingam

**156. Influence of sex on bone health in a rodent model of mitochondrial dysfunction**

10:30 AM - 12:30 PM  
Speaker: Paul LeBlanc

**157. Sex-specific effects of chronic jet lag on circadian rhythms, metabolism, and microbiome in mice under standard and high-fat diets**

10:30 AM - 12:30 PM  
Speaker: tiantian Ma

**158. Sex-dependent response of affective behavior and brain monoamine systems to photoperiod in mice**

10:30 AM - 12:30 PM  
Speaker: Shinobu Yasuo

**159. Structural and Fluid Dynamic Brain Changes During Human Pregnancy**

10:30 AM - 12:30 PM  
Speaker: Anya Mirmajlesi

**160. Variability in sex ratios among US preterm infants by maternal race-ethnicity and nativity**

10:30 AM - 12:30 PM

**161. Latent Sex Differences in Chronic Stress Induced Effects on Hippocampus to NAC Plasticity**

10:30 AM - 12:30 PM

Speakers: Deeya Mistry, Ella Reinders

**162. Sex differences in disease progression and survival in aging mice with lupus**

10:30 AM - 12:30 PM

Speaker: Keisa Mathis

**163. Low Estrone Predicts More Tau Accumulation in the Brains of Women at Risk for Alzheimer's Disease**

10:30 AM - 12:30 PM

Speaker: Sarah Banks

**164. Resolving sex-specific cellular signatures of pain response in dorsal root ganglia using imaging mass cytometry**

10:30 AM - 12:30 PM

Speaker: Skyler Brand

**165. Associations of reproductive lifespan and hormonal therapy with later-life neurovascular health**

10:30 AM - 12:30 PM

Speaker: Giulia Lorenzon

**166. DMN dynamics in aging women vary by sex and menopausal status and relate to pTau217 and cognition**

10:30 AM - 12:30 PM

Speaker: Giulia Lorenzon

**167. Non-Canonical Pathways Mediate Female-Specific Thrombosis**

10:30 AM - 12:30 PM

Speaker: Jordan Shavit

**168. Novel Protocol to Assess Postpartum Motivation for Pups**

10:30 AM - 12:30 PM

Speaker: Sydney Ku

**12:30 PM - 2:00 PM**

**Lunch on Your Own**

**2:00 PM - 3:45 PM**

**Hot Topics in Sex Differences Research - Alzheimer's Disease**

Location: Kona Ballroom

Chair: Cindy Barha ; Speakers: Maria Latorre Leal, Natalie Tronson, Holly Hunsberger, Negin Sattari Barabadi, Jonathan Epp, Lauren Oberlin

**Impact of Gender-Affirming Hormone Therapy and Sex Hormone Signaling on Alzheimer's Pathology**

2:00 PM - 2:17 PM

Location: Kona Ballroom

Speaker: Maria Latorre Leal

**Sex Differences in Susceptibility to Cognitive Decline and Alzheimer's Disease Progression After Immune Challenge**

2:17 PM - 2:34 PM

Location: Kona Ballroom

Speaker: Natalie Tronson

**Understanding and Targeting Neuropsychiatric Symptoms in Alzheimer's Disease**

2:34 PM - 2:51 PM

Location: Kona Ballroom

Speaker: Holly Hunsberger

**Sex Differences in How APOE Genotype and Sleep Interact with Alzheimer's Biomarkers and Memory in Older Adults**

2:51 PM - 3:08 PM

Location: Kona Ballroom

Speaker: Negin Sattari Barabadi

**the Retrosplenial Cortex as a Gateway to Early Alzheimer's Pathology: Sex-Specific Circuits, Vulnerabilities, and Resilience**

3:08 PM - 3:25 PM

Location: Kona Ballroom

Speaker: Jonathan Epp

**Precision of Alzheimer's Disease Blood Biomarkers may be Influenced by Sex Differences in Body Composition**

3:25 PM - 3:42 PM

Location: Kona Ballroom

Speaker: Lauren Oberlin

2:00 PM - 3:45 PM

### **Sex Chromosomes and Hormones in Arterial Stiffness: Mechanisms, Implications, and Therapeutic Targets**

Location: Kohala 3

Chair: Sarah Lindsey, PhD ; Co-Chair: Kerrie Moreau ; Speakers: Megan Wenner, Lyndsey DuBose, Zach Clayton

#### **Impact of Aging versus Menopausal Status on Arterial Stiffness in Women**

2:00 PM - 2:25 PM

Location: Kohala 3

Speaker: Megan Wenner

#### **Men have hormones too: Influence of Testosterone on Arterial Stiffening in Men**

2:25 PM - 2:50 PM

Location: Kohala 3

Speaker: Lyndsey DuBose

#### **Unlocking the Role of Sex Hormones in Vascular Aging and Arterial Stiffness using Animal Models**

2:50 PM - 3:15 PM

Location: Kohala 3

Speaker: Sarah Lindsey, PhD

#### **Arterial Stiffening with Breast Cancer: The Triple Threat of Malignancy, Chemotherapy and Ovarian Suppression**

3:15 PM - 3:40 PM

Location: Kohala 3

Speaker: Zach Clayton

2:00 PM - 3:45 PM

### **SWHR Emerging Scholars in Women's Health Research Award Symposium**

Location: Kohala 4

Chair: Syreen Goulmamine ; Speakers: Sarah Broders, Leah Conrad, Elle Murata

#### **SWHR Symposium on Immunology & Women's Health**

2:00 PM - 2:15 PM

Speaker: Syreen Goulmamine

#### **Dissecting Chromosomal and Hormonal Sex Effects on Immune Responses in Myocarditis**

2:15 PM - 2:40 PM

Speaker: Sarah Broders

#### **Alzheimer's Disease Progression and Neuroimmune Activity in a Mouse Model of Oral Contraceptive Exposure**

2:40 PM - 3:05 PM

Speaker: Leah Conrad

#### **Neurobiological Signatures of Endometriosis: Characterizing Pain, Cognition, and Brain Morphology**

3:05 PM - 3:30 PM

Speaker: Elle Murata

#### **Panel Q&A Discussion**

3:30 PM - 3:45 PM

3:45 PM - 4:00 PM

### **Break**

Location: Grand Promenade

4:00 PM - 5:45 PM

### **From Brain to Heart: Sex Differences in the Multisystem Effects of Exercise**

Location: Kona Ballroom

Chair: Simone Mellert ; Speakers: Joram Mul, Kerrie Moreau, Teresa Liu-Ambrose

#### **Sex Differences in the Neural Circuits Underlying Exercise-Induced Stress Resistance**

4:00 PM - 4:25 PM

Location: Kona Ballroom

Speaker: Simone Mellert

#### **Sex-dependent neurobiology of exercise-induced stress resilience: a focus on $\Delta$ FOSB**

4:25 PM - 4:50 PM

Location: Kona Ballroom

Speaker: Joram Mul

#### **The Aging Vasculature: Sex-Specific Patterns and Exercise-Induced Adaptations**

4:50 PM - 5:15 PM

Location: Kona Ballroom

Speaker: Kerrie Moreau

#### **Sex Differences in Exercise Efficacy on Cognitive and Brain Outcomes in Vascular Cognitive Impairment**

5:15 PM - 5:40 PM

Location: Kona Ballroom

Speaker: Teresa Liu-Ambrose

4:00 PM - 5:45 PM

**Estrogens, More than a Female Reproductive Hormone?**

Location: Kohala 3

Chair: Christina Dalla ; Co-Chair: Jessica Santollo ; Speakers: Georgia Hodes, Ivan Nalvarte

**The Estrogenic Control of Fluid Balance**

4:00 PM - 4:25 PM

Location: Kohala 3

Speaker: Jessica Santollo

**Lost in Aromatization: Opposite Immune Messages in Body and Brain Under Stress**

4:25 PM - 4:50 PM

Location: Kohala 3

Speaker: Georgia Hodes

**Sex differences in depression: Pharmacological effects of GPER1 estrogen membrane receptor**

4:50 PM - 5:15 PM

Location: Kohala 3

Speaker: Christina Dalla

**Sex hormone signaling and Alzheimer's disease: Timing matters**

5:15 PM - 5:40 PM

Location: Kohala 3

Speaker: Ivan Nalvarte

4:00 PM - 5:45 PM

**From Mice to Humans: Cross-Species Insights into Sex-Specific Biological Age Markers**

Location: Kohala 4

Chair: Alice Kane ; Speakers: Dantong Zhu, Clayton Baker, Alexandra DeCasien, Albert Higgins-Chen

**DNA Methylation Signatures of Frailty Beyond Age: A Longitudinal Study of Female and Male Mice**

4:00 PM - 4:25 PM

Location: Kohala 4

Speaker: Dantong Zhu

**Aging disrupts actin dynamics and compromises chemotactic migration in female mouse bone marrow neutrophils**

4:25 PM - 4:50 PM

Location: Kohala 4

Speaker: Clayton Baker

**Single-Cell, Multi-Region Profiling of the Macaque Brain Across the Lifespan**

4:50 PM - 5:15 PM

Location: Kohala 4

Speaker: Alexandra DeCasien

**Sex-Specific Benchmarking of Omics Aging Biomarker Responsiveness, Stability, Disease Prediction**

5:15 PM - 5:40 PM

Location: Kohala 4

Speaker: Albert Higgins-Chen

5:45 PM - 6:15 PM

**Business Meeting**

Location: Kona Ballroom

6:15 PM - 6:30 PM

**Break**

6:30 PM - 8:30 PM

**Awards Reception**

Location: Lagoon Lanai

8:35 PM - 9:00 PM

**Dinner on Your Own**

---

**Friday, May 15, 2026**

7:00 AM - 9:00 AM

**Breakfast on Your Own**

9:00 AM - 10:15 AM

**Arthur P. Arnold Distinguished Lecture - Molecular and Immune Reprogramming During Gender-Affirming Hormone Therapy**

Location: Kona Ballroom

Keynote Speaker: Boris Novakovic ; Introduction: Marija Kundakovic

10:15 AM - 10:30 AM

**Grand Promenade**

Location: Foyer

10:30 AM - 12:15 PM

**Novel Insights into Hormonal Contraceptive Links to Brain, Cognition, and Behavior Across the Reproductive Lifespan**

Location: Kona Ballroom

Chair: Christel Portengen ; Co-Chair: Esmeralda Hidalgo-Lopez ; Speakers: Benedetta Leuner, Natasha Chaku, Kathleen Casto, Adriene Beltz

**Hormonal Contraceptives in Adolescence: Impacts on Prefrontal Cortex Development and Behavior**

10:30 AM - 10:55 AM

Location: Kona Ballroom

Speaker: Benedetta Leuner

**Pubertal Timing Moderates Cognitive Responses to Exogenous Hormones in Young Adulthood**

10:55 AM - 11:20 AM

Location: Kona Ballroom

Speaker: Natasha Chaku

**Hormonal Contraceptive Use and Functional Brain Activity During Cognitive Performance**

11:20 AM - 11:45 AM

Location: Kona Ballroom

Speaker: Kathleen Casto

**Implants, Intrauterine Devices, and Pill Ingredients, Oh My! Links Between Hormonal Contraceptive Types and Middle Adulthood Cognition, Behavior, and Health**

11:45 AM - 12:10 PM

Location: Kona Ballroom

Speaker: Adriene Beltz

10:30 AM - 12:15 PM

**Sex Differences in Neural Mechanisms Modulating the Response to Stressors and Drugs of Abuse**

Location: Kohala 3

Chair: Jill Becker ; Speakers: Birgit Derntl, Liisa Galea, Amelia Cuarenta

**Sex Differences in Acute and Chronic Stress Responses: Insights from Neural Reactivity and Brain Morphology**

10:30 AM - 10:55 AM

Location: Kohala 3

Speaker: Birgit Derntl

**Hormonal Contraceptives during Adolescence but not Adulthood Increase Neural and Immune Networks Resembling Depressive Like Endophenotypes**

10:55 AM - 11:20 AM

Location: Kohala 3

Speaker: Liisa Galea

**Sex Differences in the Effects of Social Support on Self-Administration of Methamphetamine and Dopamine Release in the Nucleus Accumbens**

11:20 AM - 11:45 AM

Location: Kohala 3

Speaker: Jill Becker

**Sex-Dependent Effects of Early Life Adversity on Brain and Behavior**

11:45 AM - 12:10 PM

Location: Kohala 3

Speaker: Amelia Cuarenta

10:30 AM - 11:30 AM

**NIH Scholar Travel Awards Session**

Location: Kohala 4

Chair: Samia Noursi

**National Institutes of Health (NIH) and the Office of Research on Women's Health (ORWH)**

10:30 AM - 10:40 AM

Speaker: Samia Noursi

**NIH Policy on Sex As a Biological Variable (SABV) and additional programs administered by ORWH**

10:40 AM - 10:50 AM

Speaker: Chyren Hunter

**Etiologic Evaluation of Primary Ovarian Insufficiency: Clinical Practice Patterns and Determinants of Incomplete Assessment**

10:50 AM - 11:30 AM

Speaker: Sara Stockman