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# Event Agenda

OSSD 18th Annual Meeting

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## Sat, May 04, 2024

10:00 AM - 1:00 PM OSSD Fjord Cruise (Optional)

2:00 PM - 5:00 PM OSSD Fjord Cruise (Optional)

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## Sun, May 05, 2024

8:00 AM - 5:00 PM Registration

9:00 AM - 5:00 PM **Women's Health Research Pre-Conference - Beyond Bikini Medicine: A Spotlight on Women's Health Research**

**Opening Remarks**

9:00 AM - 9:15 AM

9:15 AM - 9:50 AM **Keynote 1 - A focus on Hormonal Transitions across the lifespan for brain health and aging trajectories**

9:55 AM - 10:55 AM **Session 1: Novel Non-Traditional Sex-Specific Cardiovascular Disease Risk Factors in Females**

**Mechanisms of accelerated cardiovascular disease risk in women with endometriosis**

9:55 AM - 10:15 AM

**Menopausal hot flashes as novel cardiovascular risk factors and markers of neurovascular dysfunction**

10:15 AM - 10:35 AM

**Neurovascular regulation in females with a history of spontaneous coronary artery dissection.**

10:35 AM - 10:55 AM

10:55 AM - 11:10 AM **Coffee Break**

11:10 AM - 12:10 PM **Session 2**

**Real-world effectiveness of hormone replacement therapy in preventing relapse in women with schizophrenia**

11:50 AM - 12:10 PM

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

11:50 AM - 12:10 PM

12:10 PM - 2:05 PM **SWHR Lunch & Learn: Lights, Camera, and Action to Improve Women's Heart Health**

Speakers: Irene Aninye, Syreen Goulmamine

**Lunch**

12:10 PM - 12:35 PM

**Spotlighting Gaps & Opportunities to Improve Women's Heart Health**

12:35 PM - 12:50 PM

**Intersecting Realities Concerning Heart Health and Intersectionality**

12:50 PM - 1:05 PM

**Q&A Panel Discussion**

1:05 PM - 1:20 PM

**Roundtable Discussions and Report Outs**

1:20 PM - 2:00 PM

**Closing Remarks**

2:00 PM - 2:05 PM

2:05 PM - 2:20 PM **Coffee Break**

2:20 PM - 4:00 PM

**Session 4: Multifaceted contributors to the pathophysiology of depression in women**

**PFC mitochondrial function: a link between gestational stress and postpartum inflammation**

2:20 PM - 2:40 PM

**Emerging roles for microglia and perineuronal nets in a rodent gestational stress model of postpartum depression**

2:40 PM - 3:00 PM

**Evidence of GABAergic Neuroactive Steroid Dysfunction in Premenstrual Dysphoric Disorder (PMDD)**

3:00 PM - 3:20 PM

**Inflammation and perinatal depression in women: results from a population-based cohort study**

3:20 PM - 3:40 PM

**Alterations in the kynurenine pathway in MDD: a specific role in the female brain**

3:40 PM - 4:00 PM

4:00 PM - 4:35 PM

**Keynote Lecture - The brains of women: Sex, drugs and so much more**

4:35 PM - 4:45 PM

**Closing Remarks**

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**Mon, May 06, 2024**

7:00 AM - 5:00 PM

**Registration**

8:30 AM - 9:45 AM

**Presidential Keynote - Gut Feelings: The Microbiome as a Key Regulator of Brain & Behaviour Across the Lifespan**

Location: Kongresal 1-4

Speaker: John Cryan

9:45 AM - 10:00 AM

**Break**

Location: Foyer

10:00 AM - 11:45 AM

**Poster Session I**

Location: Foyer

**5. Effects of binge-like ethanol drinking on glutamate transmission and excitability of D1R+MSNs in the shell of the nucleus accumbens from male and female mice**

10:00 AM - 11:45 AM

Speaker: Heather Aziz

**6. Obesity increases cardiovascular strain during passive heat stress in middle-aged women**

10:00 AM - 11:45 AM

Speaker: Tony Wolf

**13. Medicaid-Reimbursement of Doula Services to Improve Black Perinatal Care: A Qualitative Policy Analysis**

10:00 AM - 11:45 AM

Speaker: Jaylen Wright

**21. Prenatal alcohol and cannabinoid exposures impose distinct, sex-specific behavioral phenotypes of coordination and alcohol-seeking in adult mouse offspring.**

10:00 AM - 11:45 AM

Speaker: Siara Rouzer

**23. Sex Differences in Resting State Neural Networks Underlying Adolescent Multisite Pain**

10:00 AM - 11:45 AM

Speaker: Esmeralda Hidalgo-Lopez

**37. Resource scarcity experienced early in life alters the basolateral amygdala transcriptome and addiction-related behaviors in a sex-specific manner**

10:00 AM - 11:45 AM

Speaker: Amelia Cuarenta

**41. Sex differences in noise and air pollution, traffic intensity, and the associations with the risk of incident dementia in the UK Biobank**

10:00 AM - 11:45 AM

Speaker: Jessica Gong

**43. Leber's Hereditary Optic Atrophy**

10:00 AM - 11:45 AM

Speaker: Heidi Bowie

**44. Sex and Gender Dynamics of Child and Youth Mental Health during the COVID-19 Pandemic**

10:00 AM - 11:45 AM

Speaker: Maia Stelfox

**46. Sex-Specific Effects of Developmental Lead (Pb) Exposure on Cardiac Calcium Dynamics and Function**

10:00 AM - 11:45 AM

Speaker: Laurie Svoboda

**48. Toward Equal Access to Care: Racial and Ethnic Disparities in Healthcare Access and Utilization Among Midlife Women**

10:00 AM - 11:45 AM

Speaker: Akshaya

**50. Sex and Gender Representation in Canadian Critical Care Research**

10:00 AM - 11:45 AM

Speaker: Zara Stelfox

**53. Gender differences in substance abuse and behavioral impairment in Ugandan adolescents**

10:00 AM - 11:45 AM

Speaker: Ronald Anguzu

**72. Sex dependent metabolic effects of adipose specific GSK3alpha/beta deletion in mice**

10:00 AM - 11:45 AM

Speaker: Ahmad Mohammad

**79. Understanding Awareness and Uptake of Pre-Exposure Prophylaxis among HIV Negative Pregnant Women in Uganda: A Population-Based Study**

10:00 AM - 11:45 AM

Speaker: Robert Malyabe

**84. Human brain analyses reveal sex specific differences in the kynurenine pathway in depression**

10:00 AM - 11:45 AM

Speaker: Samara Walpole

**89. Janusmed Sex and Gender – a web-based knowledge database to improve drug treatment in men and women**

10:00 AM - 11:45 AM

Speaker: Linnéa Karlsson Lind

**90. Increased miRNA-34a and -125b expression in the parietal cortex of women but not men with AD**

10:00 AM - 11:45 AM

Speaker: Maricedes Acosta

**93. Developing a gender measure and examining its association with cardiovascular diseases incidence: A 28-year prospective cohort study**

10:00 AM - 11:45 AM

Speaker: Azita Zahiriharsini

**97. Sex and gender considerations in occupational health research: the example of a 20-year prospective cohort study on psychosocial stressors at work and coronary heart diseases**

10:00 AM - 11:45 AM

Speaker: Azita Zahiriharsini

**100. Which sex and gender considerations were applied in studies on psychosocial risks at work and cardiovascular diseases? An umbrella review of 55 prospective studies**

10:00 AM - 11:45 AM

Speaker: Azita Zahiriharsini

**102. Examining Sleep Disparities with Chronic Medication Use: Sex Differences in Older Adults with Insomnia Symptoms**

10:00 AM - 11:45 AM

Speaker: Negin Sattari Barabadi

**108. Changes in mood variability in transgender people after starting gender-affirming hormones**

10:00 AM - 11:45 AM

Speaker: Margot Morssinkhof

**115. Insights into the greater risk for Alzheimer's disease in females: parity, body weight, and estradiol**

10:00 AM - 11:45 AM

Speaker: Jennifer Richard

**116. Sex differences in anti-EBV antibody responses**

10:00 AM - 11:45 AM

Speaker: Julia Francis

**122. Anti-Müllerian hormone and measures of arterial stiffness in males with chronic kidney disease**

10:00 AM - 11:45 AM

Speaker: Nicole Larsen

**123. Rapid interplay between estrogen receptors and oxytocin receptors in the facilitation of social recognition in the medial amygdala of female mice**

10:00 AM - 11:45 AM

Speaker: Dante Cantini

**126. The association between anti-Müllerian hormone and cardiometabolic risk in males: A systematic review**

10:00 AM - 11:45 AM

Speaker: Nicole Larsen

**127. Investigating the genetics underlying sex differences in communication disorders**

10:00 AM - 11:45 AM  
Speaker: Tanya Phung

**152. The Effect of Controlled Ovarian Stimulation on Kidney Function: A Pilot Study**

10:00 AM - 11:45 AM  
Speaker: Sakshi Kharbanda

**159. Whole-sector policy co-design to improve integration of sex and gender in medical research**

10:00 AM - 11:45 AM  
Speaker: Alice Witt

**160. Counting diseases to predict mortality among patients with multimorbidity: as accurate as recommended prediction models? - Sex-specific results from an external validation study**

10:00 AM - 11:45 AM  
Speaker: Silvan Licher

**164. The health of care workers in diversity-sensitive care organizations from a gender and intersectional perspective.**

10:00 AM - 11:45 AM  
Speaker: Saskia Duijs

**166. Rethinking Evidence-Based Medicine in Gender-Affirming Medical Care for Youth: Unveiling Normativities and Affective Realities**

10:00 AM - 11:45 AM  
Speaker: Ezra Oosthoek

**171. Determining the Sexually Dimorphic Impact of Dio3 on Cardiac Recovery Following Myocardial Infarction**

10:00 AM - 11:45 AM  
Speaker: Sylvania Teixeira

**173. The role of neural and immune cell androgen signaling in social behavior development**

10:00 AM - 11:45 AM  
Speaker: Kerri Sparkes

**179. In vitro screening of inflammatory responses to polypropylene-based surgical mesh used in the treatment of pelvic organ prolapse**

10:00 AM - 11:45 AM  
Speaker: Kaylee Fennell

**185. A gendered ethos of safety: Mothers in emergency care occupations and new considerations for pediatric injury prevention and parenting**

10:00 AM - 11:45 AM  
Speaker: Michelle Bauer

**188. What Women Want: Patient-Informed Approaches for Increasing the Inclusivity of Women in Cardiac Rehabilitation across Canada**

10:00 AM - 11:45 AM  
Speaker: Carley O'Neill

**189. Sex differences in cancer survival among solid organ transplant recipients**

10:00 AM - 11:45 AM  
Speaker: Sarah Jackson

**190. Sex differences in the impact of prenatal hypoxia and placental antioxidant treatment on thromboxane-mediated vascular responses in the adult offspring**

10:00 AM - 11:45 AM  
Speaker: Murilo Graton

**191. Gender Differences in Cardiac Arrhythmias: From Diagnosis to Treatment Options**

10:00 AM - 11:45 AM  
Speaker: Dalia Giedrimiene

**192. Exploring the Impact of Sex Hormones on Cytotoxic Granzyme Production in Activated CD4+ T Cells**

10:00 AM - 11:45 AM  
Speaker: Oksana Goroshchuk

**194. The association between serum testosterone levels and cardiovascular health with gender-affirming testosterone therapy use.**

10:00 AM - 11:45 AM  
Speaker: Brandon Pattar

**196. The relationship of estrogen and sinonasal outcomes in women: A scoping review**

10:00 AM - 11:45 AM  
Speaker: Victoria Lee

**199. Genetic variants in COMT and ESR1 shape treatment response to raloxifene in schizophrenia-spectrum disorders**

10:00 AM - 11:45 AM  
Speaker: Bodyl Brand

**209. Efficacy and safety of psilocybin for peripartum mood disorders**

10:00 AM - 11:45 AM  
Speaker: Cassandra Hatzipantelis

**210. Sex differences in multimodal Alzheimer's disease biomarkers in cognitively unimpaired and mild cognitive impairment individuals**

10:00 AM - 11:45 AM  
Speaker: Marta Mila Aloma

**211. Sexual orientation correlates with hormonal profiles and sexually polymorphic cognition**

10:00 AM - 11:45 AM  
Speaker: Fanny Saulnier

**213. Body composition changes during in-vitro fertilization: a pilot study**

10:00 AM - 11:45 AM  
Speaker: Elaha Niazi

**217. A randomised open labelled cross sectional survey to assess the health status of labour class female with special reference to their Haemoglobin level**

10:00 AM - 11:45 AM  
Speaker: Shubha Kaushal

**219. Vascular and sympathetic responses to the cold pressor test are not associated with menopausal hot flash severity or frequency.**

10:00 AM - 11:45 AM  
Speaker: Gabrielle Dillon

**220. Hypobaric hypoxia induces depressive, anxiety and cognitive symptoms in rats, with females more vulnerable.**

10:00 AM - 11:45 AM  
Speaker: Shami Kanekar

**221. Characterization of the literature informing health care of transgender and gender-diverse individuals: a bibliometric analysis.**

10:00 AM - 11:45 AM  
Speaker: Brandon Pattar

**222. Reflexivity and positionality applied to medical practice: An experimental project on implicit gender bias with medical students at a Swiss university**

10:00 AM - 11:45 AM  
Speaker: Joelle Schwarz

**225. Associations Between Brain Volume and Sex Hormones in Males and Postmenopausal Females with Type 2 Diabetes**

10:00 AM - 11:45 AM  
Speaker: Dhananjay Vaidya

**231. A sex-dependent dual serotonergic approach for reducing methamphetamine intake in rats**

10:00 AM - 11:45 AM  
Speaker: Liana Fattore

**234. The long-term effects of pregnancy and postpartum experiences on hippocampal cell plasticity**

10:00 AM - 11:45 AM  
Speaker: Jennifer Chan

**235. High Dimensional Immune Profiling of the Blood in Midlife Healthy Human Males and Females including Females with Surgical Menopause**

10:00 AM - 11:45 AM  
Speaker: Hao Yang Liu

**236. Sex differences in follistatin mRNA expression in the polymorphic Gouldian finch brain.**

10:00 AM - 11:45 AM  
Speaker: Farrah Madison

**237. Review of potential nonclinical treatment of brain fog related to menopause**

10:00 AM - 11:45 AM  
Speaker: Marina

**238. The sex-specific effects of estrogen receptor-related alpha (ERRα) on viral myocarditis in mice.**

10:00 AM - 11:45 AM  
Speaker: Charwan Hamilton

**240. Brain-selective estrogen therapy for treatment of estrogen deficiency symptoms caused by aromatase inhibition**

10:00 AM - 11:45 AM  
Speaker: Hannah Courmoyer

**242. Weight Loss Intervention Differentially Impacts Sex Hormones in Females and Males with Type 2 Diabetes**

10:00 AM - 11:45 AM  
Speaker: Wendy L Bennett

**246. Novel method to account for menstrual cycle variation in population-based studies of sex differences.**

10:00 AM - 11:45 AM  
Speaker: Lauren

**248. Cognitive deficits in childhood leukemia survivors: A translationally-relevant mouse model identifies sex-specific effects on astrocytes**

10:00 AM - 11:45 AM  
Speaker: Teresa M Reyes

**251. X-linked Demethylase KDM6A Contributes to Mouse Cardiac Sex Differences**

10:00 AM - 11:45 AM  
Speaker: Lucia Grandison

**252. Sex-Differences in Meeting Minimal Clinically Important Differences for Physical and Mental Health Outcomes in Patients with Atrial Fibrillation Participating in Cardiovascular Rehabilitation**

10:00 AM - 11:45 AM  
Speaker: Jennifer Reed

**253. Oral health status assessment for participants undergoing gender affirming**

**hormone treatment**

10:00 AM - 11:45 AM

Speaker: P.E. Cornejo Ulloa

**256. Differences in serum protein levels associated with oral contraceptive use among African American women with hypertension and obesity**

10:00 AM - 11:45 AM

Speaker: Lisa De Roo

**259. Role of the Ovaries in Sex Differences in the Immune Response to Influenza Vaccination**

10:00 AM - 11:45 AM

Speaker: Beth DeConinck

**261. Interaction between menopause and high fat diet on cognition and pathology in a mouse model of Alzheimer's disease.**

10:00 AM - 11:45 AM

Speaker: Charly Abi Ghanem

**262. Vascular elasticity and risk factors leading to arterial stiffness in women**

10:00 AM - 11:45 AM

Speaker: Ute Seeland

**264. Intersectional Barriers to Indigenous Youth Accessing Sexual and Reproductive Health Services in Canada**

10:00 AM - 11:45 AM

Speaker: Samantha Martin-Ferris

**266. Biological sex affects the associations between intracranial blood flow and brain structure**

10:00 AM - 11:45 AM

Speaker: Erin Moir

**269. Outcomes of radiofrequency ablation for patients with ventricular tachycardia. Is there still a gender gap?**

10:00 AM - 11:45 AM

Speaker: Dalia Giedrimiene

**275. Investigating the Influence of X-Escaping Genes on Sex Differences in Neural Development: A Multiomics Approach**

10:00 AM - 11:45 AM

Speaker: Cristina Gontan

**276. Sex Differences in anxiety-like behaviors during withdrawal from morphine**

10:00 AM - 11:45 AM

Speaker: Davis Van Dyk

**278. Characterization of cognition in typical older adults: What's the role of sex and gender?**

10:00 AM - 11:45 AM

Speaker: Shana D. Stites

**280. Sex differences in the relationship between same-sex cage mates after METH Self-Administration**

10:00 AM - 11:45 AM

Speaker: Ivette Gonzalez

**281. Sex differences in striatal dopamine release during voluntary physical activity**

10:00 AM - 11:45 AM

Speaker: Margaret Tanner

**282. The Sex-Specific Influence of Iron Deficiency on Vitamin A Homeostasis**

10:00 AM - 11:45 AM

Speaker: Olivia

**284. Sex-bias during mouse embryonic development**

10:00 AM - 11:45 AM

Speaker: Christine Disteche, PhD

**285. Exploring gender differences in health information seeking: results from separate cross-sectional surveys on three health topics**

10:00 AM - 11:45 AM

Speaker: Rebecca

**290. Paradoxical Alpha Sleep During Experimental Sleep Restriction: Sex Differences**

10:00 AM - 11:45 AM

Speaker: Ian M. Greenlund

**292. Integrating sex and gender content into medical school curricula using generative artificial intelligence**

10:00 AM - 11:45 AM

Speaker: Ms. Haleigh Tianna Larson

**295. Sex differences in signatures of dementia risk factors**

10:00 AM - 11:45 AM

Speaker: Alice

**297. Cardiovascular Risk Profile Among Reproductive-Aged Women in the United States: The Behavioral Risk Factor Surveillance System (BRFSS, 2015-2020)**

10:00 AM - 11:45 AM

Speaker: Chigolum Oyeka

**298. Modulation of mucosal glycans by the vaginal microbiome: A sex-specific risk factor for chlamydia infection?**

10:00 AM - 11:45 AM

Speaker: Katherine Heger

**299. Closing the Gap in Medical Education: Sex and Gender Health Collaborative Education Initiative**

10:00 AM - 11:45 AM

Speaker: Monica Ybarra

**305. Estrogens modulate the crosstalk between cancer cells and fibroblasts in non-small cell lung cancer: an in vitro study**

10:00 AM - 11:45 AM

Speaker: Paola Matarrese

**309. Discordance in Estrogenic Effects on Lipid Metabolism in Trans Females vs Cis Females**

10:00 AM - 11:45 AM

Speaker: Ariel Thorson

**311. Sex-bias of the immune system during ageing and its interplay with X-linked gene dosage at the single cell in mouse**

10:00 AM - 11:45 AM

Speaker: Martino Borsato

**312. An atlas of sex-specific epigenetic ageing across eight human tissues**

10:00 AM - 11:45 AM

Speaker: Severine Lamon

**317. Long-term behavioural effects of pregnancy and motherhood in a long-lived rodent, the Octodon degu.**

10:00 AM - 11:45 AM

Speaker: Julia Mazur

**318. Examining sex chromosomes and hormone contributions to the sex bias in the maternal immune activation mouse model of autism: A focus on fetal development**

10:00 AM - 11:45 AM

Speaker: Alison Randell

**319. Effects of female sex hormones on genotoxic stress response in vitro.**

10:00 AM - 11:45 AM

Speaker: Joanna Ruskiewicz

**320. Sexual dimorphisms in fecundity and behavior in the absence of the BMP antagonist Gremlin2.**

10:00 AM - 11:45 AM

Speaker: Nikki Frazer

**321. Modeling sex differences in Alzheimer's Disease using isogenic hiPSC lines with different sex chromosome complements and APOE alleles**

10:00 AM - 11:45 AM

Speaker: Gala Filippova

**326. Sex related metabolic alterations after oral administration of Acetamidrid in juvenile male and female rats: preliminary data**

10:00 AM - 11:45 AM

Speaker: Roberta Tassinari

**329. Mind the Gender Gap: Data Disaggregation in Health Sciences Research & Why we need to move beyond a Male Norm**

10:00 AM - 11:45 AM

Speaker: Marina Politis

**330. Protocol for age-matched prospective study on the effects of testosterone and estrogen-based hormone therapies on muscle health and functioning in transgender Australians**

10:00 AM - 11:45 AM

Speaker: Patrice Jones

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

10:00 AM - 11:45 AM

Speaker: Shanie Landen

**332. Y chromosome damage underlies testicular abnormalities in ATR-X syndrome**

10:00 AM - 11:45 AM

Speaker: Vincent Harley

**335. The Sex-Specific Effects of Taurine Supplementation on Behavior in Socially Isolated Rats**

10:00 AM - 11:45 AM

Speaker: Madeline Kitlas

**336. Sex-specific associations of loneliness and depression**

10:00 AM - 11:45 AM

Speaker: Nina Gottschewsky

**337. Sex-specific neural activity in response to a reward-based cognitive bias task**

10:00 AM - 11:45 AM

Speaker: Travis Hodges

**338. Querying women's health histories: Implications of survey design for interpretation and analysis**

10:00 AM - 11:45 AM

Speaker: Ursula Saelzler

**353. Integrating across multiple aspects of gender/sex in neuropsychological group difference studies.**

10:00 AM - 11:45 AM

Speaker: Reubs Walsh

11:45 AM - 1:15 PM

**Trainee Lunch**

Location: Kongresal 1-4

1:15 PM - 3:00 PM

**Presidential Symposium - Studying Sex Differences Relevant for Neurodevelopment and Psychiatric Conditions: From Animal Models to Humans**

Chair: Deepak Srivastava, Elena Choleris

**Egr1 is a sex-specific regulator of neuronal chromatin, synaptic plasticity, and behavior**

1:15 PM - 1:40 PM

Speaker: Marija Kundakovic

**Identification of sex-specific mechanisms in animal models of neurodevelopmental conditions**

1:40 PM - 2:05 PM

Speaker: Peter Penzes

**Using human induced pluripotent stem cell models to study sex differences in neurodevelopmental conditions**

2:05 PM - 2:30 PM

Speaker: Deepak Srivastava

**Prenatal sex differences and autism**

2:30 PM - 3:00 PM

Speaker: Alex Tsompanidis

1:15 PM - 3:00 PM

**Cardiometabolic Comorbidities of Sleep Apnea: Are Men and Women Facing the Same Diseases?**

Chair: Vincent Joseph, Elise Belaidi

**Sex and gender differences in mechanisms, presentation and outcomes of sleep apnea**

1:15 PM - 1:40 PM

Speaker: Wojciech Trzepizur

**Role of sexual hormones in mechanisms involved in intermittent hypoxia-induced cardiometabolic consequences**

1:40 PM - 2:05 PM

Speaker: Elise Belaidi

**Sex-hormones determine metabolic responses and hepatic oxidative stress in male and female mice exposed to intermittent hypoxia**

2:05 PM - 2:30 PM

Speaker: Vincent Joseph

**Sex modifies effects of obesity in sleep disordered breathing**

2:30 PM - 3:00 PM

Speaker: Vsevolod Polotsky

1:15 PM - 3:00 PM

**Sex Differences Throughout the Medicines' Life Cycle: Evaluating and Sharing Existing Information**

Chair: Karin Schenck-Gustafsson

**An overview of the regulatory medicines system and attention to sex differences in this system**

1:15 PM - 1:40 PM

Speaker: Ineke Havinga

**Sex proportionality in clinical trials and sex differences in treatment effects with a focus on adverse drug reactions**

1:40 PM - 2:05 PM

Speaker: Sieta de Vries

**Development of a knowledge database for sex differences in drug treatment, Janusmed Sex and Gender**

2:05 PM - 2:30 PM

Speaker: Karin Schenck-Gustafsson

**Experiences and reflections from the knowledge database Janusmed Sex and Gender**

2:30 PM - 3:00 PM

Speaker: Linnéa Karlsson Lind

3:00 PM - 3:15 PM

**Break**



3:15 PM - 5:00 PM

### Sex Differences in Immunity

**Potential sex indicators of the COVID-19 vaccination response in healthcare workers: Sex hormones and microRNAs**

3:15 PM - 3:40 PM

Speaker: Anna Ruggieri

**Sex-specific gene expression reveals differentially expressed cancer signaling pathways in various B cell lymphomas**

3:40 PM - 4:05 PM

Speaker: Christiane Gaertner

**Pre-pubescent pediatric mice have more severe disease than pubescent pediatric mice and adult mice with viral myocarditis: role of sex, age and hormone status**

4:05 PM - 4:30 PM

Speaker: Katelyn Bruno

**The ovary as a secondary immune organ: Ischemic stroke as a case study**

4:30 PM - 5:00 PM

Speaker: Farida Sohrabji

3:15 PM - 5:00 PM

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

Chair: Irene Aninye

**SWHR Symposium on Aging & Women's Health Introduction**

3:15 PM - 3:30 PM

Speaker: Irene Aninye

**Adolescent Hormonal Contraceptive Administration Impacts Prefrontal Cortex Maturation and Risk-assessment in Female Rats**

3:30 PM - 3:55 PM

Speaker: Rachel Gilfarb

**Pregnancy-associated Oxidative Stress and Inflammation are not Associated with Impaired Maternal Neuronal Activity or Memory Function**

3:55 PM - 4:20 PM

Speaker: Jessica Bradshaw

**Genes that Escape X Chromosome Inactivation are Associated with Alzheimer's Disease Endophenotypes: Findings from ROSMAP**

4:20 PM - 4:45 PM

Speaker: Mabel Seto

3:15 PM - 5:00 PM

### UneXXpected Ways Sex Impacts Research Outcomes

Chair: Georgia Hodes

**The significance of environmental factors in implementing Sex as a Biological Variable (SABV) in mouse research**

3:15 PM - 3:40 PM

Speaker: Ivana Jaric

**Sex differences in the gut reaction to stress**

3:40 PM - 4:05 PM

Speaker: Georgia Hodes

**Sex- and Region-Specific Blood-Brain Barrier Disruption During Nicotine and Opioid Withdrawal**

4:05 PM - 4:30 PM

Speaker: Jill Turner

**Sex Differences in Stress Response: Classical Mechanisms and Beyond**

4:30 PM - 5:00 PM

Speaker: Nikolaos Kokras

6:00 PM - 7:00 PM

Opening Reception at King Haakon's Hall

7:00 PM - 9:00 PM

Trainee Networking Event

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## Tue, May 07, 2024

7:00 AM - 5:00 PM

Registration

8:30 AM - 9:45 AM

**Arthur P. Arnold Distinguished Lecture - G x E x D and SABV: Stress in the world and who is at risk?**

Speaker: Tracy Bale

9:45 AM - 10:00 AM

Break

10:00 AM - 11:45 AM

Poster Session II

**3. iPLA2: novel biomarker identifying sex differences in radiation-induced heart disease**

10:00 AM - 11:45 AM  
Speaker: Emily Whelan

**8. Impulsivity in women with premenstrual irritability and anger intermittently treated with Escitalopram: A laboratory crossover study**

10:00 AM - 11:45 AM  
Speaker: Maria Gröndal

**10. Transcriptional mechanisms of female stress susceptibility.**

10:00 AM - 11:45 AM  
Speaker: Christabel Mclain

**11. Investigation of gender differences in the use of antiepileptics for epilepsy, insomnia, and neuropathic pain in Norway, Japan, and the USA**

10:00 AM - 11:45 AM  
Speaker: Fatima Ali

**12. The impact of social stigma on fear of rejection, psychological distress, loneliness and domestic violence among female patients with substance use disorder in Pakistan**

10:00 AM - 11:45 AM  
Speaker: Saleem Abbas

**14. Sex differences in sensitivity to the reinforcing effects of cocaine and cocaine+nicotine combinations in a socially-housed nonhuman primate model of cocaine abuse**

10:00 AM - 11:45 AM  
Speaker: Mia Isabel Allen

**18. Microgliosis and neurological dysfunction due to chronic global hypoperfusion are worsened in a sex-specific manner in a mouse model of cerebral amyloid angiopathy**

10:00 AM - 11:45 AM  
Speaker: Romeesa Khan

**20. Marked Sex Differences are Observed in Heroin Acquisition and Affective State in Rats, but Converge to Similar Levels of Footshock Stress-Induced Reinstatement**

10:00 AM - 11:45 AM  
Speaker: Claire Deckers

**22. Sex differences in functional cortical organization reflect differences in network topology rather than cortical morphometry**

10:00 AM - 11:45 AM  
Speaker: Bianca Serio

**26. Sexually divergent traits in approach/avoidance strategies transmute the psychedelic experience**

10:00 AM - 11:45 AM  
Speaker: Giselle Rojas

**29. Sex Differences in Non-Motor Deficits in Pink1<sup>-/-</sup> Rats**

10:00 AM - 11:45 AM  
Speaker: Mary Kritzer

**31. Gendered changes in permanent sterilization among young people following Dobbs v. Jackson Women's Health**

10:00 AM - 11:45 AM  
Speaker: Jacqueline Ellison

**34. The association and contribution of gender-related characteristics to prevalent chronic kidney disease in women and men in a multi-ethnic population**

10:00 AM - 11:45 AM  
Speaker: Taryn Vosters

**36. Quantitative autoradiography of neuroinflammation in Alzheimer's disease reveals significant effects of sex**

10:00 AM - 11:45 AM  
Speaker: Mariccedes Acosta

**39. Transgender and Gender Diverse People's Experiences of Acute and Post-Discharge Mental Healthcare: A Mixed Methods Study**

10:00 AM - 11:45 AM  
Speaker: June Lam

**40. Quantifying femininity and masculinity: gender indices in epidemiological research**

10:00 AM - 11:45 AM  
Speaker: Aranka Ballering

**42. Reducing Atherosclerosis in a Model with Menopause**

10:00 AM - 11:45 AM  
Speaker: Lin Zhu

**47. Decreased expression of Phosphodiesterase 2A underlies different neurodevelopmental phenotypes in males and females**

10:00 AM - 11:45 AM  
Speaker: Barbara Bardoni

**49. Predictors of Neonatal Near-Miss in Worabe Comprehensive Specialized Hospital, Southern Ethiopia**

10:00 AM - 11:45 AM  
Speaker: Lemesa Abdisa

**51. NF- $\kappa$ B Inhibition Negatively Impacts Microvascular Function in Women with Endometriosis**

10:00 AM - 11:45 AM  
Speaker: Auni Williams

**55. Atherosclerotic Cardiovascular Disease Among Insured Adults By Gender Identity**

10:00 AM - 11:45 AM

Speaker: Carl G Streed Jr

**56. Sepsis causes sex-specific alterations in mitochondrial function and reactive oxygen species generation**

10:00 AM - 11:45 AM

Speaker: Ibrahim Khodabocus

**60. Sex-related differences in participation and trial outcomes in axial spondylarthritis randomized clinical trials: A systematic literature review and meta-analysis**

10:00 AM - 11:45 AM

Speaker: Lihi Eder

**63. Perceived Social stigma, fear of rejection, psychological distress and loneliness among patients with substance use disorder in Pakistan**

10:00 AM - 11:45 AM

Speaker: Saleem Abbas

**67. Sex difference in gut hormones and insulin signaling pathway promotes increased body fat in Drosophila females than males**

10:00 AM - 11:45 AM

Speaker: Puja Biswas

**68. Determination of androgen-induced changes in the proteome of BT-474 breast cancer cells**

10:00 AM - 11:45 AM

Speaker: Sergi Clotet-Freixas

**69. Pregnancy and cardiac arrhythmias: Contribution of atrial remodeling**

10:00 AM - 11:45 AM

Speaker: Céline Fiset

**70. CHARACTERIZING CEREBROVASCULAR DAMPING FOLLOWING ENVIRONMENTAL AUTONOMIC STIMULATION**

10:00 AM - 11:45 AM

Speaker: Tabitha Craig

**75. Cortical astrocytes sex-dependently regulate glutamate synapses to alter ethanol consumption and anxiety-like behaviors.**

10:00 AM - 11:45 AM

Speaker: Andrea Liss

**78. Sex hormones' rapid effects on social and non-social short-term memory in the dorsal hippocampus of male mice**

10:00 AM - 11:45 AM

Speaker: Kathleen LaDouceur

**87. Explaining the difference in drug survival of biologics between female and male psoriasis patients**

10:00 AM - 11:45 AM

Speaker: Liana Barenbrug

**88. Paternal Consumption of Caloric and Non-Caloric Sweeteners are Associated with Sex-Specific Differences in Reproductive and Metabolic Health in Offspring**

10:00 AM - 11:45 AM

Speaker: Michelle Kearns

**92. Differences between human male and female neutrophils**

10:00 AM - 11:45 AM

Speaker: Richard Gomer

**95. A NEUROPATHOLOGICAL PROTEIN STUDY ON THE PROGRESSION OF NEUROCOGNITIVE DECLINE FOLLOWING HISTORY OF ADOLESCENT BINGE-DRINKING IN MALE AND FEMALE C57BL/6J MICE**

10:00 AM - 11:45 AM

Speaker: Leo Jimenez Chavez

**96. Beyond the Binary: Navigating Sex and Gender in Citizen-Partnered Research with Transgender Adults**

10:00 AM - 11:45 AM

Speaker: Chantal Rytz

**103. Inhibition of NF- $\kappa$ B Activation Does Not Alter Conduit Artery Endothelial Function in Women with Endometriosis**

10:00 AM - 11:45 AM

Speaker: Virginia Content

**105. Arterial stiffness and endothelial function in transgender women using gender-affirming estrogen therapy: a cross-sectional study**

10:00 AM - 11:45 AM

Speaker: Chantal Rytz

**106. Establishing validated algorithms for identifying transgender women and men using routinely collected healthcare administrative data in Alberta, Canada**

10:00 AM - 11:45 AM

Speaker: Chantal Rytz

**109. Sex Differences in Cognition Exacerbated by Cerebral Small Vessel Disease as a Result of Hypertension**

10:00 AM - 11:45 AM

Speaker: Amanpreet Kaur

**111. Involvement of galectin-3, a protein linked to female hearing loss, in supporting cell responses to sensory cell pathogenesis in mouse cochleae**

10:00 AM - 11:45 AM

Speaker: Bohua Hu

**112. Examining sex-specific activation of immature neurons during chronic stress-induced negative cognitive bias**

10:00 AM - 11:45 AM

Speaker: Amanda Namchuk

**114. Sex differences in cognitive function and underlying neurophysiological mechanisms in mice**

10:00 AM - 11:45 AM

Speaker: Kyriaki Sidiropoulou

**118. Unveiling Insights from Nearly 250,000 Women in the NIH All of Us Dataset**

10:00 AM - 11:45 AM

Speaker: Vivian Ota Wang, PhD

**124. Sex- and Gender-Specific Reporting in Literature Informing Clinical Guidelines for Hypertension Management**

10:00 AM - 11:45 AM

Speaker: Nabilah Gulamhusein

**129. Predictors of Neonatal Near-Miss in Worabe Comprehensive Specialized Hospital, Southern Ethiopia**

10:00 AM - 11:45 AM

Speaker: Lemesa Abdisa

**130. Antipsychotic-induced prolactin elevations and gonadal hormones in men with schizophrenia: divergent effects of testosterone and estrogen on cognition and symptom severity**

10:00 AM - 11:45 AM

Speaker: Iris Hamers

**135. Quantifying Gender Disparities: Creating Gender Scores for Fragility Fracture Patients from Ontario Fracture Screening and Prevention Program Data**

10:00 AM - 11:45 AM

Speaker: Anum Ali

**136. Sex- and gender-related characteristics in relation to the care burden of family caregivers of persons with dementia**

10:00 AM - 11:45 AM

Speaker: Michiel de Graaff

**138. Alterations in dopamine system function in the VCD model of perimenopause: relevance to psychosis**

10:00 AM - 11:45 AM

Speaker: Stephanie Perez

**139. Antenatal magnesium sulfate benefits female preterm infants but results in poor male outcomes**

10:00 AM - 11:45 AM

Speaker: R. Holly Fitch

**140. Sex-differences in HemoglobinA1c Time-in-Range in a Population-level Cohort of 68,165 Patients with Diabetes in Canada**

10:00 AM - 11:45 AM

Speaker: Padma Kaul

**141. Community perceptions and experiences on caring for the premature babies in Arba Minch Health and Demographic Surveillance Site, southern Ethiopia: a qualitative study**

10:00 AM - 11:45 AM

Speaker: shitaye shibiru Getachew

**142. Studying gender in the experiences of patients with heart failure: a review of evidence and recommendations for future research**

10:00 AM - 11:45 AM

Speaker: Elias Thomas

**143. Mood sensitivity to allopregnanolone in the menopause transition**

10:00 AM - 11:45 AM

Speaker: Bethany Sander

**144. Associations of sex hormones with concussion in female athletes and cadets**

10:00 AM - 11:45 AM

Speaker: Bryna Goeckner

**146. Characterizing Cerebrovascular Damping Damping Environmental Autonomic Stimulation in Females and Males**

10:00 AM - 11:45 AM

Speaker: Tabitha Craig

**148. Characterizing the effects of estradiol on synapse development in male and female human cerebral organoids**

10:00 AM - 11:45 AM

Speaker: Adam Pavlinek

**149. Investigation of dopamine signalling in the medial prefrontal cortex during context fear discrimination**

10:00 AM - 11:45 AM

Speaker: Liv Engel

**155. Understanding Sex- and Gender-Based Drivers of the Excess Risk of Psychotic Disorders Among Migrants**

10:00 AM - 11:45 AM

Speaker: Jahin Khan

**157. Correlation between pregnancy history and CSF AD biomarkers in cognitively unimpaired postmenopausal women**

10:00 AM - 11:45 AM

Speaker: Anna Brugulat-Serrat

**158. Addressing Gender Biases in Clinical Reasoning: A Quantitative Analysis of Medical Students' Performance in an Objective Structured Clinical Examination**

10:00 AM - 11:45 AM

Speaker: Carole Clair

**165. Sex-specific mechanisms underlie plasticity at hippocampus-nucleus accumbens synapses**

10:00 AM - 11:45 AM

Speaker: Tara LeGates

**167. Glomerular filtration rate estimation in transgender adults using gender-affirming hormone therapy: an exploratory cross-sectional study**

10:00 AM - 11:45 AM

Speaker: Keila Turino Miranda

**170. Neurovascular control of blood pressure in hormone-naïve transgender men: A protocol**

10:00 AM - 11:45 AM

Speaker: Keila Turino Miranda

**172. The Contextualized Usage of Hormonal Contraception Model: Accounting for Context in Brain and Behavior Research**

10:00 AM - 11:45 AM

Speaker: Emily May

**174. Cellular targets of estrogen signaling and spatial learning in the mouse hippocampus**

10:00 AM - 11:45 AM

Speaker: Aaron Fleischer

**176. Does the Y chromosome play a role in neonatal lung injury?**

10:00 AM - 11:45 AM

Speaker: Rose Albert

**183. Gender stereotypes & hormones modulate visuospatial abilities differently among gender diverse & cisgender people**

10:00 AM - 11:45 AM

Speaker: Mina Guérin

**186. The reciprocal relationship between aromatase, estrogen, and binge alcohol consumption**

10:00 AM - 11:45 AM

Speaker: Lia Zallar

**187. Voluntary exercise attenuates stress-induced dorsal raphe serotonergic activity in female rats**

10:00 AM - 11:45 AM

Speaker: Simone Mellert

**193. Estradiol receptor alpha determines sex-specific cardiovascular responses to intermittent hypoxia**

10:00 AM - 11:45 AM

Speaker: Ella AKA

**195. Estimating the association between parity and gravidity & blood pressure and hypertension: a protocol**

10:00 AM - 11:45 AM

Speaker: Nabilah Gulamhusein

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

10:00 AM - 11:45 AM

Speaker: Nabilah Gulamhusein

**205. A review of the Role of Sex Hormones in Empathic Processing**

10:00 AM - 11:45 AM

Speaker: Bonnie O'malley

**207. The Role of Sex and Ovarian Hormones in Sleep Loss-Induced Hippocampal Deficits**

10:00 AM - 11:45 AM

Speaker: Luisa Epifani

**208. Cellular and brain aging in UK Biobank females are associated with menopause-related factors, depression, and APOE  $\epsilon$ 4 genotype.**

10:00 AM - 11:45 AM

Speaker: Arielle Crestol

**214. Causal relations between estradiol and depression in females – a Mendelian randomization study**

10:00 AM - 11:45 AM

Speaker: Hannah Oppenheimer

**218. IMPACT OF INTERMITTENT HYPOXIA AND SEX ON MYOCARDIAL INFARCTION IN A MODEL OF SLEEP APNEA**

10:00 AM - 11:45 AM

Speaker: Brittany Blachot-Minassian

**227. Investigating mechanisms behind sex specific effects of neurodevelopmental mutations in a Myt1l<sup>+/-</sup> mouse model**

10:00 AM - 11:45 AM

Speaker: Sneha Chaturvedi

**229. Expression of fatty acid oxidation genes is specifically and intrinsically female-**

**biased in healthy human cardiomyocytes**

10:00 AM - 11:45 AM

Speaker: Maya Talukdar

**232. Sex specific functional effects of common and rare autism risk variants**

10:00 AM - 11:45 AM

Speaker: Din Selmanovic

**233. Sex matters in Systemic Sclerosis: males and females are equal but not the same!**

10:00 AM - 11:45 AM

Speaker: Pamela Waked

**239. Evaluating sex differences in depressive and anxiety-like phenotypes in C57Bl/6 mice using the chronic mild unpredictable stress model**

10:00 AM - 11:45 AM

Speaker: Meagan Hinks

**243. Two-hit mouse model of neonatal hypoxic ischemic encephalopathy results in developmental delays, transcriptional changes, and sex-dependent decreases in brain volume**

10:00 AM - 11:45 AM

Speaker: Elise Lemanski

**244. Divergent Sex-Specific Effects of TLR4 and CD14 in Dahl Salt-Sensitive Hypertension**

10:00 AM - 11:45 AM

Speaker: Emily Burns-Ray

**245. Female sex chromosomes contribute to the sex-specificity of the mechanisms of obesity-associated hypertension**

10:00 AM - 11:45 AM

Speaker: Candee Barris

**247. Dialysis adequacy as a modifiable sex-specific cardiovascular risk factor: A systematic review**

10:00 AM - 11:45 AM

Speaker: Victoria Riehl-Tonn

**249. Hemodialysis-related quality of life differs by sex and gender**

10:00 AM - 11:45 AM

Speaker: Victoria Riehl-Tonn

**254. Adolescent Hormonal Contraceptive Administration Impacts Prefrontal Cortex Maturation and Risk-Assessment in Female Rats.**

10:00 AM - 11:45 AM

Speaker: Rachel Gilfarb

**257. Pattern separation performance varies across the menstrual cycle**

10:00 AM - 11:45 AM

Speaker: Mateja Perovic

**260. Sex differences in the effects of adverse childhood experiences on cognition along the Alzheimer's disease continuum**

10:00 AM - 11:45 AM

Speaker: Mateja Perovic

**265. A cross-species analysis of neuroanatomical covariance sex differences**

10:00 AM - 11:45 AM

Speaker: Linh Pham

**267. Multiome analyses to understand sex differences in GBM outcome**

10:00 AM - 11:45 AM

Speaker: Lorida Llaci

**270. Beyond Pill count: Navigating Pain Medication Risks with a Sex and Gender Lens**

10:00 AM - 11:45 AM

Speaker: Marimee Godbout-Parent

**272. Sex differences in the effect of oxytocin and methamphetamine electrically stimulated dopamine release and reuptake**

10:00 AM - 11:45 AM

Speaker: Noah Leonardo

**274. Regulation of Stress and Mood in a Mouse Model of Oral Contraceptives**

10:00 AM - 11:45 AM

Speaker: Kristen Schuh

**277. Sex Differences in the Response of Aortic Valve Interstitial Cells to TNF $\alpha$**

10:00 AM - 11:45 AM

Speaker: Ashley Scott Patterson

**279. A substantia nigra to dorsolateral striatum pathway mediates the effects of female estrous cycle on fear extinction and is a novel target for the prevention of fear relapse**

10:00 AM - 11:45 AM

Speaker: Alyssa Hohorst

**283. Sex differences in probable depression over 12 months among youth in South Africa**

10:00 AM - 11:45 AM

Speaker: Tatiana Pakhomova

**287. Estradiol, through the ER $\beta$  and GPER, Protects Females from Neurovascular Coupling Impairment Induced by Interleukin-17A**

10:00 AM - 11:45 AM

Speaker: Jessica Youwakim

**288. Sex-specific inclusion of patients with cardiovascular disease in exercise research**

**in Canada: a rapid review**

10:00 AM - 11:45 AM

Speaker: Isabela Marçal

**289. Past Oral Contraceptive Use and Age at Initiation Relate to Late Life Cognition**

10:00 AM - 11:45 AM

Speaker: Pallavi Chandrasekhar

**293. Sex differences in the impact of the Community Paramedicine at Clinic (CP@clinic) Program on the health status and quality of life of older adults**

10:00 AM - 11:45 AM

Speaker: Jasdeep Brar

**294. Male bias towards apoptotic response to inflammation through sex-biased lncRNA RP-11 and IGFBP3 mediation in keratinocytes highlights a potential mechanism for sex-differences increasing risk for autoimmunity**

10:00 AM - 11:45 AM

Speaker: Kam Kennicott

**314. Gender based discrimination, Social stigma, fear of rejection and loneliness among patients with substance use disorder in Pakistan**

10:00 AM - 11:45 AM

Speaker: Saleem Abbas

**325. Sex differences in brain activity and functional connectivity impact of GLP-1 and amylin in awake rats**

10:00 AM - 11:45 AM

Speaker: Karolina Skibicka

**327. Brain sex in the limbic system as phenotype for pubertal development**

10:00 AM - 11:45 AM

Speaker: Gloria Matte Bon

**333. Drug targets for female hormone therapy and risk of neuropsychiatric disorders: a Mendelian randomisation study**

10:00 AM - 11:45 AM

Speaker: Louise Schindler

**334. Synergism between Lewy body and Alzheimer's disease pathologies differs by sex**

10:00 AM - 11:45 AM

Speaker: Madeline Wood Alexander

11:45 AM - 1:15 PM

**EDI Luncheon & Lecture - Finding the Light then Being the Light: Surviving Academia and Better Supporting Historically Marginalized Folks in Science**

Speaker: Angeline Dukes

1:15 PM - 3:00 PM

**Elizabeth Young New Investigator Symposium**

**Introduction**

1:15 PM - 1:25 PM

**Efficacy and safety of psilocybin for peripartum mood disorders**

1:26 PM - 1:43 PM

Speaker: Cassandra Hatzipantelis

**Q&A I**

1:43 PM - 1:48 PM

**Prenatal alcohol and cannabinoid exposures impose distinct, sex-specific behavioral phenotypes of coordination and alcohol-seeking in adult mouse offspring.**

1:49 PM - 2:06 PM

Speaker: Siara Rouzer

**Q&A II**

2:06 PM - 2:11 PM

**Sex Differences in the Response of Aortic Valve Interstitial Cells to TNF $\alpha$**

2:12 PM - 2:29 PM

Speaker: Ashley Scott Patterson

**Q&A III**

2:29 PM - 2:34 PM

**Sex chromosome complement and gonadal hormones differentially contribute to the sex bias in the maternal immune activation mouse model of autism**

2:35 PM - 2:52 PM

Speaker: Stephanie Salia

**Q&A IV**

2:52 PM - 3:00 PM

3:00 PM - 3:15 PM

Break

3:15 PM - 5:00 PM

### Hot Topics from Biology of Sex Differences

Chair: Jill Becker

#### **Sex and gender differences in human brain**

3:15 PM - 3:35 PM

Speaker: Anagha Joshi

#### **X chromosome inactivation skewing is common in advanced carotid atherosclerotic lesions in females and predicts secondary peripheral artery events**

3:35 PM - 3:55 PM

Speaker: Ernest Diez Benavente

#### **Sex-specific associations of matrix metalloproteinases in Alzheimer's disease**

3:55 PM - 4:15 PM

Speaker: Mari Aksnes

#### **Sex differences in distribution and identity of aromatase gene expressing cells in the young adult rat brain**

4:15 PM - 4:35 PM

Speaker: Erika Comasco

#### **Cocaine-induced sensitization and glutamate plasticity in the nucleus accumbens core: Effects of sex**

4:35 PM - 5:00 PM

Speaker: Carrie Ferrario

3:15 PM - 5:00 PM

### Moving the Dial on Promoting Brain Health Through Modifiable Risk Factors: Can Considering Sex Get us There?

Chair: Cindy Barha, Erin Sundermann

#### **The role of sleep apnea and hypertension on tau pathology and memory in older women**

3:15 PM - 3:40 PM

Speaker: Kitty Lui

#### **Exercising for brain health: Examining the mechanisms underlying the sex difference in exercise efficacy with humans and rodents**

3:40 PM - 4:05 PM

Speaker: Cindy Barha

#### **Sex differences in the neurocognitive effects of fitness and exercise**

4:05 PM - 4:30 PM

Speaker: Kirk Erickson

#### **Leveraging existing Alzheimer's clinical trials datasets to investigate sex-specific response to treatment (LEADERS study)**

4:30 PM - 5:00 PM

Speaker: Judy Pa

3:15 PM - 5:00 PM

### Sex Hormones and Their Impact on Vascular and Metabolic Aging: Insights and Implications

Chair: Roshanak Rahimian, Mitra Esfandiarei

#### **Sex differences in diabetic vascular dysfunction: A deep dive into diabetes-induced vascular aging in males vs females and the impact of exercise**

3:15 PM - 3:40 PM

Speaker: Roshanak Rahimian

#### **Sex differences in marfan syndrome-associated vascular complications: A model for premature vascular aging**

3:40 PM - 4:05 PM

Speaker: Mitra Esfandiarei

#### **Sex differences in cardiovascular and metabolic effects of androgens and the impact of aging: The good, the bad, and the ugly**

4:05 PM - 4:30 PM

Speaker: John N. Stallone

#### **Sex related susceptibility to fatty liver in response to high fat diet supplemented with liquid fructose**

4:30 PM - 5:00 PM

Speaker: Roger Bentanachs

5:00 PM - 5:00 PM

### Dinner On Your Own

5:15 PM - 6:30 PM

### OSSD Council Meeting (Closed)

6:30 PM - 8:00 PM

### CIHR-IGH Trainee Award Event (Closed)

Location: 26 North Social Club

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**Wed, May 08, 2024**

7:00 AM - 5:00 PM

Registration



8:30 AM - 9:45 AM

### Education Panel: Measurement of Sex and Gender

Speakers: Sofia Ahmed, Colleen Norris, Lara Wierenga

10:00 AM - 11:45 AM

### Sex Differences in Aging

**Neurogenesis and its downstream synaptic targets mediate sex differences in contextual fear discrimination in advanced aged mice**

10:00 AM - 10:25 AM

Speaker: Victor Luna

**A meta-analysis of sex differences in longitudinal tau-PET in clinically normal adults**

10:25 AM - 10:50 AM

**Iron overload induces cerebral endothelial senescence in aged mice and in primary culture in a sex-dependent manner**

10:50 AM - 11:15 AM

Speaker: Jose Moruno-Manchon

**Heat vulnerability in the context of global warming: Sex differences in older adults**

11:15 AM - 11:45 AM

Speaker: Olivia Leach

10:00 AM - 11:45 AM

### Citizen-Partnered Research: What are the Sex and Gender Implications?

Chair: Henry T Stelfox

**Citizen experiences with partnered research**

10:00 AM - 10:25 AM

Speaker: Marie-Maxime Bergeron

**Citizen partnered research: What is the evidence?**

10:25 AM - 10:50 AM

Speaker: Stephana Julia Moss

**Sex, gender and participatory research with youth**

10:50 AM - 11:15 AM

Speaker: Jeanna Parsons Leigh

**Beyond the binary: Navigating sex and gender in citizen-partnered research with transgender adults**

11:15 AM - 11:45 AM

Speaker: Chantal Rytz

10:00 AM - 11:45 AM

### Interactions Between Ovarian Hormones and Substance Use Disorder (SUD)

Chair: Wendy Lynch

**The role of ovarian hormone cycles on stimulant effects in the dopamine reward system**

10:00 AM - 10:25 AM

Speaker: Eleanor Holmgren

**Roles for sex chromosome complement and gonads in drug-related behavior**

10:25 AM - 10:50 AM

Speaker: Emilie Rissman

**Influence of ovarian hormones on opioid-induced subjective effects and antinociception in women**

10:50 AM - 11:15 AM

Speaker: Justin Strickland

**Cannabis use in pregnancy: Sex-specific associations with perinatal outcomes and neurodevelopment in offspring**

11:15 AM - 11:45 AM

Speaker: Daniel Corsi

11:45 AM - 1:15 PM

### Funder Forum Lunch

1:15 PM - 3:00 PM

### ORWH SCORE on Sex Differences: Sex Differences in Dietary Response, Hypertension, and the Microbiome

Chair: Karen Reue

**ORWH Specialized Centers of Research Excellence (SCORE) on Sex Differences as drivers of advancements in women's health**

1:15 PM - 1:40 PM

Speaker: Chyren Hunter

**Sex differences in cardiometabolic disease: The impact of sex chromosomes and gonads**

1:40 PM - 2:05 PM

Speaker: Karen Reue

**Sex differences in brain-gut microbiome interactions in irritable bowel syndrome**

2:05 PM - 2:30 PM

Speaker: Arpana Gupta

**High-fat diet enhances blood pressure sensitivity of females to salt relative to males**

2:30 PM - 3:00 PM

Speaker: Jennifer Sullivan

1:15 PM - 3:00 PM

### Mapping Sex Differences in Brain Organization Across Species and Spatial Scales

Chair: Armin Raznahan, Allen Mackenzie-Graham

#### **Sex and the mouse brain: Effects of gonads, X and Y chromosomes, and developmental timing**

1:15 PM - 1:40 PM

Speaker: Jason Lerch

#### **Dissecting sex-biasing factors in brain gene regulation at spatial and single cell resolutions**

1:40 PM - 2:05 PM

Speaker: Xia Yang

#### **Cross-species neuroimaging study of sex differences on the human and mouse brain**

2:05 PM - 2:30 PM

Speaker: Elisa Guma

#### **Sex-differences in the common genetic architecture of the human brain anatomy**

2:30 PM - 3:00 PM

Speaker: Rebecca Shafee

1:15 PM - 3:00 PM

### Sex-Differences in the Developmental Programming of Cardio Metabolic Disease

Chair: Stephane Bourque, Jennifer Thompson

#### **Intergenerational impacts of women's health on offspring health**

1:15 PM - 1:40 PM

Speaker: Dana Dabelea

#### **We are products of our (intrauterine) environment: How developmental exposure to maternal obesity programs cardiometabolic disease risk in a sex-specific manner**

1:40 PM - 2:05 PM

Speaker: Taylor Scheidl

#### **Sweet Child O' Mine: The impact of sweetener exposure on metabolic outcomes in mothers and offspring**

2:05 PM - 2:30 PM

Speaker: Clare Reynolds

#### **Sex Differences for the impact of developmental origins of cardiovascular disease**

2:30 PM - 3:00 PM

Speaker: Sandra Davidge

3:15 PM - 5:00 PM

### NIH ORWH Science Policy Travel Award program

Chair: Samia Noursi

#### **Armed Conflict and Women's Intimate Partner Violence Risk in Colombia**

3:15 PM - 5:00 PM

Speaker: Mayte Restrepo

3:15 PM - 5:00 PM

### Sex Differences in Molecular Mechanisms Mediating Drug Taking and Seeking Behaviors

Chair: Sunila Nair, Wendy Lynch

#### **Neurobiological mechanisms of the telescoping effect in females for the development of an cocaine addiction-like phenotype**

3:15 PM - 3:40 PM

Speaker: Wendy Lynch

#### **Sex differences in the role of glutamate receptor trafficking proteins in cocaine seeking**

3:40 PM - 4:05 PM

Speaker: Lisa Briand

#### **Estradiol regulation of prefrontal cortex activity and drug seeking**

4:05 PM - 4:30 PM

Speaker: Elizabeth Doncheck

#### **Sex differences in how social status influences the molecular mechanisms mediating cocaine reinforcement in nonhuman primate models**

4:30 PM - 5:00 PM

Speaker: Michael Nader

3:15 PM - 5:00 PM

**Local Session - Towards an Understanding of Sex/Gender Differences in Mental Health and Cognition: A Lifespan Perspective**

Chair: Claudia Barth

**Development of emotional problems from childhood to adolescence: Exploring sex differences with longitudinal network analysis**

3:15 PM - 3:40 PM

Speaker: Eira R. Aksnes

**Sex/gender differences in cognitive abilities**

3:40 PM - 4:05 PM

Speaker: Marco Hirnstein

**Sex differences in social cognition in schizophrenia**

4:05 PM - 4:30 PM

Speaker: Anja Vaskinn

**Sex effects on DNA methylation affect discovery in epigenome-wide association study of schizophrenia**

4:30 PM - 5:00 PM

Speaker: Markos Tesfaye Woldeyohannes

6:00 PM - 8:00 PM

**Awards Dinner**

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**Thu, May 09, 2024**

7:00 AM - 12:00 PM

**Registration**

8:30 AM - 9:45 AM

**Capstone Lecture: Sex Differences in Cardiac Disease**

Speaker: Eva Gerdtz

10:00 AM - 11:45 AM

**IGM Symposium**

**Application and dissemination of gender medicine in Italy: The role of Italian National Institute of Health**

10:00 AM - 10:25 AM

Speaker: Elena Ortona

**Changes in mood variability in transgender people after starting gender-affirming hormones**

10:25 AM - 10:50 AM

Speaker: Margot Morssinkhof

**Vascular elasticity and risk factors leading to arterial stiffness in women**

10:55 AM - 11:20 AM

Speaker: Ute Seeland

**The implementation of a Rodent Model of Gender-Affirming Hormone Therapies to Identify Susceptibility and Vulnerability of Transgender People in the Chemical Risk Assessment**

11:20 AM - 11:45 AM

Speaker: Francesca Maranghi

10:00 AM - 11:45 AM

**Brains in transition: The Effect of Sex and Gender**

Chair: Birgit Derntl, Claudia Barth

**Sex and gender uniquely influence brain networks in children**

10:00 AM - 10:25 AM

Speaker: Elvisha Dhamala

**Understanding vulnerability through variability: A longitudinal twin study linking sex differences in neurodiversity, neurodevelopment, and X-linked genetic mechanisms.**

10:25 AM - 10:50 AM

Speaker: Lara Wierenga

**Sex differences in motivation: Hormonal modulation of cost-benefit decision-making**

10:50 AM - 11:15 AM

Speaker: Melina Grahlow

**Sex differences in cardiometabolic risk and brain age in midlife and older adulthood**

11:15 AM - 11:45 AM

Speaker: Sivaniya Subramaniapillai

10:00 AM - 11:45 AM

**Biologically-Based Sex Differences Driving Precision Health Strategies for Women's Heart Disease**

Chair: Jennifer Dungan, Katelyn Bruno

**Overview of the biologic basis for sex differences in women's heart disease**

10:00 AM - 10:25 AM

Speaker: C. Noel Bairey Merz

**Sex-associated genomic biomarkers in ischemic heart disease**

10:25 AM - 10:50 AM

Speaker: Jennifer Dungan

**Sex specific biomarkers in myocarditis**

10:50 AM - 11:15 AM

Speaker: DeLisa Fairweather

**Sex differences in risk factors of CVD: Precision health strategies for cardiovascular care**

11:15 AM - 11:45 AM

11:45 AM - 1:15 PM

**OSSD/IGM/COGS Lunch**