# **Advancing Research on Women's Mental Health**

April 17–18, 2024

# **CONFERENCE PROGRAM**





This event is an Accredited Group Learning Activity (section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by the CAMH Simulation Centre. You may claim a maximum of 15.5 hours (credits are automatically calculated).



# Thank you for joining us at CAMH womenmind<sup>™</sup> conference.

It is with great pleasure that I welcome you to the inaugural CAMH *womenmind* Conference. I am thrilled to witness the convergence of brilliant minds dedicated to addressing the critical issues surrounding women's mental health.

Throughout the conference, you will have the opportunity to engage with leading experts, share cutting-edge research findings, and explore innovative strategies for advancing the well-being of women worldwide.

I encourage each of you to actively participate throughout the conference. Your unique perspectives, experiences, and expertise are invaluable contributions to our shared mission of advancing women's mental health research.

Thank you for your dedication, passion, and commitment to advancing women's mental health research. I look forward to the transformative conversations and insights that will emerge from our time together.



With my warmest regards,

### Dr. Liisa Galea

Treliving Family Chair in Women's Mental Health, Senior Scientist, Campbell Family Mental Health Research Institute, CAMH; Professor Dept. of Psychiatry at University of Toronto

APRIL 17, 2024 — MORNING		
8:00-8:45 am	BREAKFAST, REGISTRATION AND TRAINEE POSTERS	
8:45–9:15 am	Welcome remarks	
9:15–10:55 am	Understanding How Hormonal Cycles Impact Mental Health	
The Link Between Pubertal Stress, Hormonal Changes, and Mental IllnessDr. Nafissa Ismail		
The Brain Epigenome as a Bridge Between Ovarian Hormones and Mental HealthDr. Marija Kundakovic		Dr. Marija Kundakovic
Understanding the Biopsychosocial Mechanisms of Dr. Benicio Frey Premenstrual Dysphoric Disorder (PMDD) to Inform Better Care		
From the Game of Hormones to the House of Neural Dragons: Bridging Data Gaps in Neuroscience for Precision Women's Mental Health and the Application of Artificial Intelligence in Large Multimodal DatabanksDr. Julia Sacher		
10:55–11:10 am	MORNING BREAK: COFFEE, TEA A	ND SNACKS
11:10 am-12:50 pm Elevating Voices: Integrating Expertise and Advocacy in Collaborative Research for Greater Impact		
Co-Design in Rese and Families	arch Involving Patients	Dr. Sophie Soklaridis and Holly Harris
Autistic Women—Underdiagnosed and Misunderstood		Megan Pilatzke
Why Canada Needs a Perinatal Mental Health Strategy		Patricia Tomasi
Indigenous Women, Two-Spirit, Trans and Gender- Diverse Peoples' Experiences with Anti-Indigenous Racism and Mental Health Care		Marisa Blake

# SCHEDULE | DAY ONE

### APRIL 17, 2024 – AFTERNOON

12:50–1:50 pm	LUNCH AND TRAINEE POSTERS	
1:50–3:30 pm	A Spotlight on Perinatal Mental Healt	th
Treating for Two: Innovations in the Epidemiology and Treatment of Mental Illness Around the Time of PregnancyDr. Simone Vigod		
Scaling up Psychological Treatments for PerinatalDr. Daisy SinglaMental HealthDr. Daisy Singla		Dr. Daisy Singla
Insights into Perinatal Mood from a TranslationalDr. KathleenMouse Model Built with Women in MindMorrison		2
Black Perinatal Mental Health: Disparities, SocialDr. Crystal ClarkDeterminants of Health, and Achieving EquityDr. Crystal Clark		
3:30–3:45 pm	AFTERNOON BREAK: COFFEE, TEA	AND SNACKS
3:45–5:25 pm Effects of Menopause on Women's Mental Health, Dementia and Alzheimer's Disease		
3:45–5:25 pm		lental Health,
Menopause and Age		<b>lental Health,</b> Dr. Natasha Rajah
Menopause and Age Related Brain Functi	Dementia and Alzheimer's Disease Affect Episodic Memory and ion in Middle-Aged Females f Menopause and Interaction	,
Menopause and Age Related Brain Functi Cognitive Effects of with Other Dementi	Dementia and Alzheimer's Disease Affect Episodic Memory and ion in Middle-Aged Females Menopause and Interaction a Risk Factors uses: The Effects of Ovarian	Dr. Natasha Rajah
Menopause and Age Related Brain Functi Cognitive Effects of with Other Dementi The Many Menopau Removal on Women	Dementia and Alzheimer's Disease Affect Episodic Memory and ion in Middle-Aged Females Menopause and Interaction a Risk Factors ses: The Effects of Ovarian i's Brain Health th Dementia: Role of Biological	Dr. Natasha Rajah Dr. Kirsten Zuloaga

APRIL 18, 2024 — MORNING		
8:00-8:45 am	BREAKFAST, REGISTRATION AND	TRAINEE POSTERS
8:45–10:30 am	What Do Sex and Gender Have to Do With It? How Studying SGBA Can Advance Knowledge on Mental Health for All	
Beyond the Binary: Sex and Gender Considerations Dr. Robert Paul Juster in Stress and Resilience Research		
Depression and Inflammation: What Does SeXX Have Dr. Georgia Hodes to Do With It?		Dr. Georgia Hodes
Decoding the Sex-Specific Developmental ImpactDr. Cecilia Floresof Adverse Experiences in AdolescenceDr. Cecilia Flores		Dr. Cecilia Flores
Integrating Sex and Gender in Autism Research Dr. Meng-Chuan Lai		Dr. Meng-Chuan Lai
10:30–10:45 am	MORNING BREAK: COFFEE, TEA	AND SNACKS
10:45 am–12:25 pm The Influence of Hormonal Contraceptives on Mental Health		
Who is at Risk for D Contraceptives?	epression When Using Hormonal	Dr. Inger Sundström Poromaa
What and How Do You Feel When Taking Hormonal Contraception?		Dr. Birgit Derntl
Hormonal Contraceptives and Depression:Dr. Vibe FrokjaerImplications for Precision PsychiatryDr. Vibe Frokjaer		Dr. Vibe Frokjaer
Beyond Birth Control: Hormonal Contraceptives Dr. Benedetta Leuner and the Adolescent Brain		Dr. Benedetta Leuner

# SCHEDULE | DAY TWO

### APRIL 18, 2024 – AFTERNOON

12:25–1:30 pm	LUNCH AND TRAINEE POSTERS	
1:30–3:10 pm	Harnessing Big Data to Understand Women's Mental Health	
The Aging Female Brain: The Role of Immunoendocrine Dr. Claudia Barth Factors During Pregnancy and Menopause		
Leveraging Brain-Based Predictive Models to Dr. Elvisha Dhamala Understand Women's Health		
The Ann S. Bowers Women's Brain Health Initiative:Dr. Emily JacobsA Trans-UC Neuroimaging Consortium to AdvanceWomen's Health Research		
Cellular and Molecular Mechanisms of DepressionDr. Marianne Seneyand Stress Susceptibility: Sex MattersDr. Marianne Seney		Dr. Marianne Seney
3:10–3:25 pm	AFTERNOON BREAK: COFFEE, TE	A AND SNACKS
3:25–4:25 pm Spotlighting The U's in Women's Mental Health: Underfunded, Undervalued, Understudied—Leaving Women Undiagnosed, Untreated and Unhealthy		
Reflections and Call to Action for the AdvancementDr. Liisa Galea andof Women's Mental Healthguests		
A Randomized, Double Blind, Placebo ControlledSpecial guestTrial of a Novel Dietary Supplement to PreventDr. Jeffrey MeyerPostpartum BluesDr. Deffrey Meyer		
4:30–4:35 p.m	Closing Remarks	

## Understanding How Hormonal Cycles Impact Mental Health

### Chair: Dr. Liisa Galea



### Dr. Nafissa Ismail

(she/her)

PhD, Professor in the Department of Psychology at University of Ottawa; University Research Chair in Stress and Mental Health



### Dr. Marija Kundakovic (she/her)

PhD, Associate Professor in the Department of Biological Sciences at Fordham University



#### Dr. Benicio Frey (he/him)

MD, PhD, Professor, Department of Psychiatry and Behavioural Neuroscience at McMaster University; Medical Director, Women's Health Concerns Clinic and Director, Centre for Clinical Neurosciences at St. Joseph's Healthcare Hamilton



#### Dr. Julia Sacher (she/her)

MD, PhD, Professor of Cognitive Neuroendocrinology with the Medical Faculty of the University Clinic of Leipzig and the Max Planck Institute for Human Brain Sciences

### **SPEAKERS**

## **Elevating Voices: Integrating Expertise and Advocacy in Collaborative Research for Greater Impact**

#### Chair: Dr. Samantha Wells





PhD, Senior Scientist and Scientific Director at CAMH; Associate Professor at the Temerty Faculty of Medicine, University of Toronto; Vice-Chair of Mental Health Equity and EDIIA at the Department of Psychiatry

M.A., Research Coordinator for the Collaborative







Megan Pilatzke (she/her)

Learning College at CAMH

Holly Harris (she/her)

Megan is a proud autistic woman with over 30 years of lived experience misdiagnosis and mental health. She is an advocate, public speaker and expert in promoting autism and neurodiversity acceptance, inclusion, and accessibility.

Patricia Tomasi (she/her) BJourn, CC-PMH, Co-Founder and Executive Director of the Canadian Perinatal Mental Health Collaborative



Marisa Blake (she/her) Researcher



## A Spotlight on Perinatal Mental Health

### Chair: Patricia Tomasi



### **Dr. Simone Vigod**

(she/her)

MD, MSc, Professor Temerty Faculty of Medicine at the University of Toronto; Head of the Department of Psychiatry and Senior Scientist and Shirley A. Brown Memorial Chair in Women's Mental Health Research at Women's College Hospital



Dr. Daisy Singla (she/her)

PhD, C. Psych, Associate Professor in the Department of Psychiatry at the University of Toronto; *womenmind* Senior Scientist at CAMH



# Dr. Kathleen Morrison (she/her)

PhD, Assistant Professor of Behavioral Neuroscience at West Virginia University



Dr. Crystal Clark (she/her)

MD, MSc, Associate Professor in the Department of Psychiatry at the University of Toronto; Associate Head of Research at Women's College Hospital; Scientist at Women's College Hospital Research Institute

## **SPEAKERS**

### **Effects of Menopause on Women's Mental Health, Dementia and Alzheimer's Disease**

#### Chair: Dr. Liisa Galea









### Dr. Maria Natasha Rajah

(she/her)

PhD, Canada Research Chair (Tier 1) in Sex, Gender, and Diversity, in Brain Health, Memory, and Aging; Professor in the Department of Psychology, Toronto Metropolitan University

# **Dr. Kirsten Zuloaga** (she/her)

PhD, Associate Professor and Director of Graduate Studies in the Department of Neuroscience and Experimental Therapeutics and Co-Founder/ Co-Director of the NY Capital Region Postdoctoral Development Program, Albany Medical College

# **Dr. Gillian Einstein** (she/her)

PhD, The Wilfred and Joyce Posluns Chair in Women's Brain Health and Aging; Professor of Psychology at the University of Toronto; Associate Scientist, Baycrest Hospital

#### Dr. Cindy Barha (she/her)

PhD, Assistant Professor Neuroscience in the Faculty of Kinesiology at University of Calgary; Canada Research Chair in Neuroscience, Brain Health and Exercise (Tier II)



## **YOUNG INVESTIGATORS**

# Hot Topics: Young Investigator Symposium

PRESENTER	ABSTRACT
Ann-Christin Kimmig	Linking Hormonal Shifts during Pill Use Changes with Female Functional Brain Architecture and Mood
Dana Jarkas	Sex Differences in the Inflammation-Depression Link: A Systematic Review and Meta-analysis
Jana Radosavljevic	Sex- and Diagnostic-based Analyses Reveal Immune Subgroups of Depression
Madeline Wood Alexander	Interactive Associations of APOE-ɛ4 Genotype and Oral Contraceptive Use with Late-life Cognitive Decline
Megan Mio	Suicide Attempts as an Independent Predictor of Worse Heart Health in Female Youth with Mood Disorders
Romina Garcia	Unveiling the Effects of IL-1 $\beta$ on Antidepressant Efficacy Using a Preclinical Model of Postpartum Depression
Serena Habib	Off-Label: Lived and Embodied Experiences of Premenstrual Dysphoric Disorder

## What Does Sex and Gender Have to Do With It? How Studying SGBA Can Advance Knowledge on Mental Health for All

#### Chair: Dr. Liisa Galea





# PhD, Director of the Center on Sex\*Gender, Allostasis,

(he/him)

**Dr. Robert Paul Juster** 

and Resilience at the Montreal Mental Health University Institute: Associate Research Professor. Department of Psychiatry and Addiction at the University of Montreal; CIHR Sex and Gender Science Chair

#### **Dr. Georgia Hodes** (she/her)

PhD, Assistant Professor at the School of Neuroscience, Virginia Tech



### **Dr. Cecilia Flores**

(she/her)

PhD. Professor in the Department of Psychiatry and Associate Member of the Department of Neurology and Neurosurgery at McGill University



#### Dr. Meng-Chuan Lai (he/him)

MD, PhD, Staff Psychiatrist and Senior Scientist at CAMH; Associate Professor and Co-Chair, Advisory Council for Equity, Diversity, Inclusion, Indigeneity and Accessibility in Clinical Care in the Department of Psychiatry at the University of Toronto

## **SPEAKERS**

## The Influence of Hormonal Contraceptives on Mental Health

### Chair: Dr. Sanjeev Sockalingam







**Dr. Inger Sundström Poromaa** (she/her)

MD, PhD, Professor of Obstetrics and Gynecology at Uppsala University, Sweden; Visiting Professor at the Center for Neuroendocrinology, University of Otago, New Zealand, and at the National University of Singapore

# Dr. Birgit Derntl (she/her)

PhD, Psychologist; Psychotherapist; Professor of Women's Mental Health and Brain Function at the Department of Psychiatry and Psychotherapy, University of Tübingen

#### Dr. Vibe Frokjaer (she/her)

MD, PhD, Clinical Professor in Neuropsychiatry, Department of Clinical Medicine, University of Copenhagen, Denmark



# **Dr. Benedetta Leuner** (she/her)

PhD, Associate Professor of Psychology at the Ohio State University, with an appointment in the Department of Neuroscience

## Harnessing Big Data to Understand Women's Mental Health

### Chair: Dr. Aristotle Voineskos



### Dr. Claudia Barth

(she/her)

(she/her)

PhD, Co-founder of the Women's NeuroNetwork; Researcher in the Department of Psychiatric Research at Diakonhjemmet Hospital, Oslo, Norway

PhD. Assistant Professor at the Feinstein Institutes for



### Medical Research and the Zucker Hillside Hospital; Pl of the Brain-Based Predictive Modeling Laboratory

Dr. Elvisha Dhamala



# **Dr. Emily Jacobs** (she/her)

PhD, Associate Professor of Psychological & Brain Sciences at UC Santa Barbara; Director of the Ann S. Bowers Women's Brain Health Initiative at the University of California



### **Dr. Marianne Seney** (she/her)

PhD, Associate Professor of Psychiatry the University of Pittsburgh

### **SPEAKERS**

## Spotlighting The U's in Women's Mental Health: Underfunded, Undervalued, Understudied–Leaving Women Undiagnosed, Untreated and Unhealthy



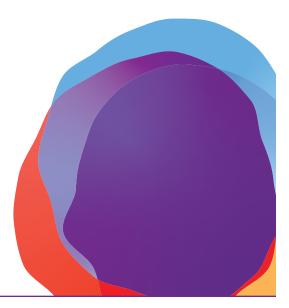


PhD, Treliving Family Chair in Women's Mental Health; Senior Scientist at CAMH; Scientific Lead for *womenmind*; Professor in the Department of Psychiatry at University of Toronto



# **Dr. Jeffrey Meyer** (he/him)

PhD, Senior Scientist at CAMH, Professor in the Department of Psychiatry at University of Toronto, Canada Research Chair in the Neurochemistry of Major Depression (Tier I)



DAY ONE — APRIL 17, 2024	
Marium Ali	Effects of Menstrual Cycle Phase on the Neural Correlates of Electronic Cigarette Versus Tobacco Use
Deniz Bengi	Bipolar Disorder and Perimenopause: A Comprehensive Update
Gilciane Ceolin	Intimate Partnerships, Depression and Healthy Eating: A Longitudinal, Mediation Analysis of Aging Women and Gender Minorities in Canada
Abigail Cherinet	Elevated Inflammatory Cytokine Levels in Females Compared to Males With and Without Treatment- Resistant Depression
Danijela Dozet	A Profile of Women Reporting Alcohol use During Pregnancy in Ontario
Vanessa Goncalves	Analysis of Mitochondrial DNA Variants in Bulimia Nervosa
Tina Kabir	Investigating Menstrual Cycle Phase Timing to Improve Smoking Cessation Treatment Outcomes
Bonnie Lee	The Parity Paradox: Differential Effects on Spatial Strategy Use and Hippocampal Neuroplasticity Depending on APOEe4 Genotype
Xinyi Lin	Influence of Sex and APOE Genotype on Cognition: What is the Role of the Complement System?
Vanessa Luk	Healthcare Utilization Before and During the COVID-19 Pandemic Among Mothers and Birthing Parents with Elevated Levels of Postpartum Depression Symptoms
Arooba Mansoor	Effectiveness of Peer Administered Interventions for Perinatal Depression and Anxiety: A Systematic Review and Meta-analysis of Randomized Controlled Trials
Ana Mendes-Silva	Exosome-associated Mitochondrial DNA in Women with Late-Life Depression: Implications for Cognitive Decline

## **TRAINEE POSTER PRESENTATIONS**

DAY ONE — APRIL 17, 2024		
Amanda Namchuck	Examining Sex-specific Activation of Immature Neurons During Chronic Stress-induced Negative Cognitive Bias	
Anna Pees	PET Imaging of Sex Differences in the Endocannabinoid Pathway Using a Preclinical Model of Alzheimer's Disease	
Mateja Perovic	Menstrual Cycle Modulates Hippocampal Pattern Separation Behaviours	
Naomi Phagau	Examining Associations of Prenatal Depression and Preconception Mental Health with Developmental Vulnerability at School Entry: A Population-based Cohort Study	
Tanvi Puri	The Trajectory of Cognitive Aging is affected by Previous Parity, APOE Genotype, and Age of Menopause	
Jennifer E. Richard	Insights into the Greater Risk for Alzheimer's Disease in Females: Parity, Body Weight, and Estradiol	
Maryam Sorkhou	Sex-Specific Effects of Extended Cannabis Abstinence on Substance Use and Clinical Outcomes in Patients with Co- Occurring Major Depression and Cannabis Use Disorder	
Vanessa Tassone	Decreased Odds of Depressive Symptoms and Suicidal Ideation in Females with Higher Education: Stratification by Employment Status	
Tishani Thiviyakumar	Mood Fluctuations and Biological Rhythms Across the Menstrual Cycle Assessed Using the MAC-PMSS and Actimetry	
Erica Vieira	GABA Level and Inflammation in Women with Substance Use Disorder	
Ally Villeneuve	Hormone Contraception Use, Stress Processes and Neuroendocrine Activity Among Young Adult Women	
Xi Zhou	The Impact of Mild Traumatic Brain Injury on Oligodendrocyte Lineage Cells in White Matter and Anxiety-Like Behaviours in Juvenile Mice	

DAY TWO — APRIL 18, 2024	
Madeline Wood Alexander	Interactive Associations of APOE-E4 Genotype and Oral Contraceptive Use with Late-life Cognitive Decline
Nikki Bozinoff	Association Between Sex and Initial Benzodiazepine Prescribing Patterns, and Time to Benzodiazepine Discontinuation: A Population-based Retrospective Cohort Study
Samantha Cote	AthenaDAO: A Decentralized Collective to Fund Women's Health Research
Gil Angela Dela Cruz	The FORWomen Qualitative Study: Substance Use Treatment Experiences of Forensic and Non-forensic Women
Katerina Dikaios	Development of a Novel Trauma-informed Psychotherapy for Treating Psychiatric Symptoms of Hormonal Sensitivity
Keri Durocher	Understanding Women's Experiences of Using Patient Portals: A Rapid Review of the Literature
Romina Garcia	Unveiling the Effects of IL-1 $\beta$ on Antidepressant Efficacy Using a Preclinical Model of Postpartum Depression
Serena Habib	Off-Label: Lived and Embodied Experiences of Premenstrual Dysphoric Disorder
Zakia Hussain	Sexual and Reproductive Health within Treatment Guidelines for Schizophrenia Spectrum Disorders: A Systematic Review Protocol
Dana Jarkas	Sex Differences in the Inflammation-Depression Link: A Systematic Review and Meta-analysi
Hannah Kearney	Re-Imagining Sexual and Reproductive Healthcare for Women and Gender Diverse Individuals: The Development of an Innovative Clinician Training Protocol
Ann-Christin Kimmig	Linking Hormonal Shifts during Pill Use Changes with Female Functional Brain Architecture and Mood

## **TRAINEE POSTER PRESENTATIONS**

DAY TWO — APRIL 18, 2024	
Kian Yousefi Kousha	The Effect of Infant Distress to Limitation on Postpartum Depression Treatment Response and Mother-Infant Bonding
Justin Matheson	"It's Just, Like, a Younger Guy Thing to Smoke Weed": Gendered Cannabis Norm Perceptions Among Treatment-Seeking Adults
Emily May	Exploring Sex Differences and Menopause in Brain Perfusion and Mild Cognitive Impairment in Patients with Vascular Risk
Megan Mio	Suicide Attempts as an Independent Predictor of Worse Heart Health in Female Youth with Mood Disorders
Chelsea Montgomery	Women in Healthcare: Investigating Personal and Workplace Risk and Resilience Factors in Burnout and Depression
Serrina Philip	The Exploration of Women's Health with Intellectual and Developmental Disabilities (IDD): Systematic Review and Meta-Analysis
Sunidhi Prabhaka	Early Diagnosis and Support for Neurodivergent Women: A Global Perspective
Jana Radosavljevic	Sex- and Diagnostic-based Analyses Reveal Immune Subgroups of Depression
Luis Francisco Ramos-Lima	Effects of Early-life trauma on Complex Posttraumatic Stress Disorder and Its Interaction with Hormonal Sensitivity in Adulthood (ECHOS Study)
Frances Sherratt	Understanding the Impact of Trauma Type and Timing on Young Women's Mental Health
Nicolette Stogios	Effects of Antipsychotics on Brain Insulin Action in Females: A Placebo-Controlled Crossover Neuroimaging Study

## **Learn More**

Our latest **womenmind Impact Report** provides valuable insights into our achievements, collaborations, and contributions to the field. Discover how *womenmind* is making a difference and how you can be part of our journey to improve mental health outcomes for women around the globe.



Scan the QR code to the right to access the **Impact Report** for 2023/23.

## Join

# WOMEN'S HEALTH

Join the **Women's Health Research Cluster**, an international network of multidisciplinary professionals, trainees and community members that strive to create a future where women and girls can live equitable lives across their lifespan.

Scan the QR code to the right to become a member for free now.

## **Evaluation**

Your feedback is valuable to us as we strive to improve our future events. Please click here to complete the **conference evaluation**.







## ACKNOWLEDGEMENTS

### **Thank You**

We would like to extend our heartfelt gratitude to the dedicated individuals whose vision, contributions and hard work has made this conference possible!

### **Executive Committee**

**Dr. Arstotle Voineskos** Vice President, Research; Director, Campbell Family Mental Health Research Institute

**Dr. Sanjeev Sockalingam** Chief Medical Officer; VP Education, CAMH Education Services

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Finally, we would like to express our deepest gratitude to all the *womenmind* donor community, including our two founding donors for which this community was made possible: *Sandi Treliving* and family, and the *Hudson's Bay Foundation*.