



DOHaD Canada Annual Scientific Meeting CONFERENCE SCHEDULE

TUESDAY, FEBRUARY 11, 2020

2:00- 6:00 pm	REGISTRATION	Max Bell Auditorium – Foyer
4:45-5:45 pm	DOHaD Canada Council Meeting <i>(Council members only)</i>	Max Bell Building, room 156
6:00-7:00 pm	Dinner	Sally Borden Building, Vistas Dining Room
7:00-7:20 pm	WELCOME / OPENING REMARKS Meghan Riddell, Jennifer Thompson, Co-Chairs Stephen Matthews, President, DOHaD Canada	Max Bell Auditorium
7:20- 8:20 pm	KEYNOTE LECTURE JACOB E. (JED) FRIEDMAN, PhD University of Oklahoma, USA <i>Microbes, macrophages and mitochondria: how early exposure to poor maternal diet programs adult metabolic disease</i>	
8:20- 8:40pm	Trainee Flash Talks (3 min each) <ul style="list-style-type: none"> • Brittany Gruber, University of Manitoba <i>Dysregulated glucose and fatty acid metabolism in pregnant adiponectin deficient mice contributes to the development of gestational diabetes mellitus</i> • Audrey St-Laurent, Laval University <i>Factors influencing physical activity levels in toddlers: results of the 3D FIT study</i> • Elizabeth Myles, Dalhousie University <i>Effects of Early Life Probiotic on Adult Anxiety, Weight, and Systemic Inflammation After Exposure to Western Diet</i> • Ousseynou Sarr, Western University <i>Western diet feeding during early life alters hepatic transcriptome and promotes lean Non-alcoholic fatty liver disease in young guinea</i> • Nicole Brunton, University of Manitoba <i>Data driven approaches to examine casual effects of maternal weight on offspring blood pressure at 18 years of age</i> • Sandra Lafortune, Université de Montréal <i>Stress During Pregnancy: Information Needs Assessment to Increase Awareness Among Pregnant Women</i> 	
8:40-10:00 pm	NETWORKING EVENT	Kinneer Centre, room 105

WEDNESDAY, FEBRUARY 12, 2020

7:00 - 8:15 am	Breakfast	Sally Borden Building, Vistas Dining Room
8:15-8:20 am	OPENING REMARKS Meghan Riddell, Jennifer Thompson, Co-Chairs	Max Bell Auditorium
8:20-9:20 am	KEYNOTE LECTURE LUCILLA POSTON, PhD King's College London, UK <i>DOHaD, maternal obesity and diabetes</i>	
SESSION 1	ENVIRONMENTAL IMPACTS ON THE MICROBIOME	Max Bell Auditorium
9:20-9:50 am	Invited Speaker Anita Kozyrskyj, PhD, University of Alberta <i>Re-wilding the infant gut microbiome</i>	
9:50-10:05 am	Trainee Talk Charles Dupras, McGill University <i>Human rights in the postgenomic era: Challenges and opportunities arising with epigenetics</i>	
10:05-10:25 am	Coffee Break	Max Bell Central Foyer
SESSION 2	ENVIRONMENTAL INFLUENCES ON NEUROBIOLOGY	
10:25-10:55	Invited Speaker Ryan Van Lieshout, MD, PhD, McMaster University <i>If you're happy and you know it clap your hands: Emotion regulatory changes in the infants of women treated for postpartum depression</i>	Max Bell Auditorium
10:55-11:05	Trainee Talk Preeti Kar, University of Calgary <i>Associations between breastfeeding during infancy and white matter microstructure in young children</i>	
11:05-11:35	Invited Speaker Deborah Kurrasch, PhD, University of Calgary <i>Sensitivity of the rodent developing hypothalamus to maternal stressors</i>	
11:35-11:50	Trainee Talk Bahar Amani, McMaster University <i>Postpartum depression and neurobiological outcomes in infants: A systematic review</i>	
11:50- 12:00	Trainee Flash Talks (3 min each) <ul style="list-style-type: none">Stephanie King, University of Lethbridge <i>Transgenerational and Multigenerational Prenatal Stress Induces Altered Epigenetic Marks and Gene Expression in the Placenta and Fetal Cortex</i>	

- Camille Bastien Tardif, Université de Montréal
The effect of an exercise intervention program on cardiorespiratory and skeletal muscle function in young adults born preterm – The HAPI Fit project
- Stephanie Atkinson, McMaster University
Cardiometabolic status but not macronutrient intakes differ by pre-pregnancy BMI in women in early pregnancy in Southern Ontario

12:00 – 1:15

Lunch

Sally Borden Building,
Vistas Dining Room

SESSION 3

ENVIRONMENTAL INFLUENCES ON THE CARDIOVASCULAR SYSTEM

1:15-1:20

Housekeeping

Meghan Riddell, Jennifer Thompson, Co-Chairs

Max Bell Auditorium

1:20-1:50

Invited Speaker

Stephane Bourque, University of Alberta

Iron deficiency in pregnancy: a deceptively complex health issue in Canada and abroad

1:50-2:05

Trainee Talk

Gregory Robinson, Western University

The effects of delta-9-tetrahydrocannabinol and cannabidiol on fetal heart development in mice

2:05-2:20

Trainee Talk

Ronan Noble, University of Alberta

Maternal iron restriction in pregnancy causes cardiac dysfunction and morphological changes in neonates

2:20-2:50

Invited Speaker

Phoebe Stapleton, Rutgers University, USA

Cardiovascular susceptibility in offspring after maternal engineered nanomaterial exposure

2:50-3:00

Trainee Flash Talks (3 mins each)

- Efraim Yousuf, McMaster University
Persistence of bacteria in the preterm infant gut weeks after probiotic supplementation in the NICU
- Jia Hang Li, University of Alberta
Effect of Perinatal Iron Deficiency on Markers of Neonatal Cardiac Mitochondrial Biogenesis and Maturation
- Joshua Heynen, University of Lethbridge
Cumulative Ancestral and Lifetime Adversities Alter Stress Vulnerability in Metabolic Pathways in a Two-Hit Stress Model

3:00-3:20 pm

Coffee Break

Max Bell Central Foyer

SESSION 4

SOCIAL ENVIRONMENT AND DOHaD

3:20-3:50	Invited Speaker Maria Ospina, University of Alberta <i>Social determinants of health in DOHaD research</i>	Max Bell Auditorium
3:50-4:05	Trainee talk Camilla A Michalski, University of Toronto <i>Maternal cannabis use and adverse birth outcomes</i>	
4:05-4:15	Trainee Flash Talks (3 mins each) <ul style="list-style-type: none">• Oyepeju Onifade, University of Newcastle <i>First foods of indigenous Australian children in the Gomerioi Gaaynggal cohort</i>• Yulia Fahr, University of Alberta <i>Tumour necrosis factor-A (TNF-A) and sphingosine 1-phosphate (S1P) independently impact syncytialization without synergistic effects</i>• Carmen Tessier, University of Alberta <i>The Impact of Maternal Prenatal Depression on Infant Gut Colonization of C. Difficile and Microbiota Composition at 3-4 Months of Age</i>	
4:15-5:15	DOHaD Canada AGM Business Meeting	Max Bell Auditorium
5:15-5:30	Closing remarks and awards Meghan Riddell, Jennifer Thompson	