Acknowledgments

In keeping with CMA guidelines, program content and selection of speakers are the responsibility of the planning committee. Support is directed toward the costs and not to individual speakers through an unrestricted educational grant.

The Canadian College of Neuropsychopharmacology appreciates the support of the following sponsors:

SILVER LEVEL SPONSORSHIP

innovation today, healthier tomorrows

SPONSOR LEVEL

The Canadian College of Neuropsychopharmacology appreciates the ongoing support of Pfizer Canada Inc. for the Heinz Lehman, Innovations in Neuropsychopharmacology and the Young Investigator Awards.
WEDNESDAY JUNE 27, 2018
15:00 – 19:00 CCNP Council Meeting (Telus Boardroom)
17:00 – 21:00 Registration (Theatre Foyer)

THURSDAY JUNE 28, 2018
07:30 – 17:00 Registration (Theatre Foyer)
07:30 – 08:30 Breakfast (Sunroom)
08:30 – 09:00 Welcoming Remarks (Theatre)
09:00 – 10:30 Presidential Symposium (Theatre)
   Dr. David Goldbloom (University of Toronto)
   Thoughts on the future of Psychiatry
   Chair: Dr. Ridha Joober (McGill University)
10:30 – 11:00 Break (Theatre Foyer or Sunroom)
11:00 – 12:30 Symposium 1: The impact of pharmacogenomics on clinical practice
   (Theatre)
   Chair: Dr. Katherine Aitchison (University of Alberta)
   Dr. Daniel Mueller (University of Toronto)
   Genome-wide association studies suggest an association between DGKB and
   antipsychotic induced weight gain in Europeans and African Americans
   Dr. Katherine Aitchison (University of Alberta)
   Drug metabolizing enzyme associations with response to agents used in
   neuropsychopharmacology
   Dr. Robert Stowe (University of British Columbia)
   Pharmacogenomics in adult neuropsychiatric practice: real-world examples
   Dr. Chad Bousman (University of Calgary)
   Selection and dosing of psychiatric medications: do commercial pharmacogenetic-
   based decision support tools provide equivalent advice?
12:30 – 13:30 LUNCH/CCNP Business Meeting (All are welcome) (Sunroom)
13:30 – 14:00 CCNP Next Generation Presentation #1 (Theatre)
   Dr. Julie Blendy (University of Pennsylvania)
   Neurobehavioral effects of early opioid exposure in mice: influence of the OPRM1
   A118G single nucleotide polymorphism
   Dr. Francesco Leri (University of Guelph)
   Intersection between nutrition and addiction: sugar and opiates
14:00 – 15:00 **CCNP Heinz Lehmann Award Lecture** (Theatre)
   Dr. Alan Evans (McGill University)
   *A brain signature with high positive predictive power of ASD diagnosis*

   Chair: Dr. Ridha Joober (McGill University)

15:00 – 15:30 Break (Theatre Foyer or Sunroom)

15:30 – 17:00 **Symposium 2: Novel insights into the neurobiology of major depression**
   (Theatre)

   Chair: Dr. Naguib Mechawar (McGill University)

   Dr. Caroline Menard (Université Laval)
   *Social stress induces neurovascular pathology and immune response promoting depression*

   Dr. Etienne Sibille (University of Toronto)
   *Targeting gabaergic sst-positive interneurons deficits: implications for cognitive and mood symptoms in depression and other brain disorders*

   Dr. Benoit Labonté (Université Laval)
   *Sex-specific transcriptional signatures in human depression*

   Dr. Naguib Mechawar (McGill University)
   *The impact of child abuse on oligodendrocytes and myelination in the human brain*

17:00 – 17:30 Free time

17:30 – 19:30 Reception (Sunroom)

**FRIDAY JUNE 29, 2018**

07:30 – 17:00 Registration (Theatre Foyer)

07:30 – 08:30 Breakfast (Theatre Foyer)

08:30 – 09:00 Welcoming Remarks

09:00 – 10:30 **Symposium 3: Advancing patient care from bench to bedside – the people and processes driving innovation (and how you can be part of it)** (Theatre)

   Chair: Dr. Thomas Raedler (University of Calgary)

   Dr. Tara Moroz (Pfizer Canada)
   *Bench to bedside: the road to a pharmaceutical product*

   Dr. Thomas Raedler (University of Calgary)
   *Psychiatry pharmacological pipeline*
Intravenous ketamine: dissociative experience and antidepressant response

Canadian research in neuroscience, mental health and addictions – where we are headed?

10:30 – 11:00 Break (Theatre Foyer)

11:00 – 12:30 Symposium 4: Cannabis and the brain: how Canadian research can lead the world (Theatre)

Chair: Dr. Darrell Mousseau (University of Saskatchewan)

Cannabidiol enriched cannabis herbal extract in pediatric patients with refractory epileptic encephalopathy – the CARE-E study

Allosteric modulation of type 1 cannabinoid receptor in absence epilepsy

Cannabidiol dosing considerations in paediatric patients

Changes in CB1 receptor expression in Alzheimer disease, Parkinson’s disease, and depression autopsied in cortical samples

12:30 – 14:00 Lunch (HSBC Hall/overflow)

13:00 – 14:00 CCNP Poster Session 1 (HSBC Hall)

14:00 – 14:30 CCNP Next Generation Presentation 2 (Theatre)

Rapid change in fentanyl prevalence in a community-based, high-risk sample

14:30 – 15:30 CCNP Young Investigator Award Lecture (Theatre)

1. Dr. Isabelle Boileau (University of Toronto)
   Fatty acid amide hydrolase: investigating potential brain-based biomarkers in post-traumatic stress disorder

2. Dr. Stephanie Borgland (University of Calgary)
   Diet-induced obesity impairs outcome devaluation and alters excitability of the OFC

Chair: Dr. Ridha Joober (McGill University)

15:30 – 15:45 Break (Theatre Foyer)
**Symposium 5: Neurostimulation: clinical applications and mechanisms of action** (Theatre)

Chair: Dr. Fidel Vila-Rodriguez (University of British Columbia)

Dr. Fidel Vila-Rodriguez (University of British Columbia)
*Effectiveness of theta burst versus high-frequency repetitive transcranial magnetic stimulation in patients with depression (THREE-D)*

Dr. Frank MacMaster (University of Calgary)
*Repetitive transcranial magnetic stimulation in adolescents with treatment resistant depression*

Dr. Faranak Farzan (Simon Fraser University)
*Theta burst stimulation in treatment of youth depression*

Dr. Zafiris Daskalakis (University of Toronto)
*Neurophysiological mechanisms of rTMS efficacy in treatment resistant depression*

18:30 – 19:30 Gala Dinner – Cocktails (Vancouver Convention Centre, 1055 Canada Place, Level 2 Ocean Foyer)

19:30 – 20:00 CCNP Medal Award Presentation to Dr. Patricia Boksa (Vancouver Convention Centre, 1055 Canada Place, Level 2 Ocean Foyer)
Presenter: Dr. Ridha Joober

**SATURDAY JUNE 30, 2018**

07:30 – 12:30 Registration (Theatre Foyer)

07:30 – 08:30 Breakfast (Theatre Foyer)

08:30 – 10:00 **Symposium 6: New approaches for treatment of mental illness** (Theatre)

Chair: Dr. Paul Albert (University of Ottawa)

Dr. Shimon Amir (Concordia University)
*Regulation and behavioral implications of clock gene expression in the striatum*

Dr. Stephen Ferguson (University of Ottawa)
*CRF receptor1 regulates anxiety behaviour via sensitization of 5-HT2 receptor signaling*

Dr. Paul Albert (University of Ottawa)
*When SSRI’s don’t work: altered 5-HT1A autoreceptor gene repression results resistance to chronic SSRI treatment*

Dr. Pierre Blier (University of Ottawa)
*Novel approaches for early optimized treatment for clinical depression*
10:00 – 10:30 **CCNP Next Generation Presentation 3** (Theatre)

Dr. Jennifer Bossert (National Institute on Drug Abuse)
*Modeling opioid maintenance therapy in rats: effect of chronic buprenorphine and the biased mu-opioid receptor agonist TRV130 on relapse to oxycodone seeking*

Dr. Drew Townsend (Virginia Commonwealth University)
*Rapid assessment of choice between fentanyl and liquid food in rats: effect of reinforcer magnitude and immunoantagonism*

10:30 – 11:00 Break (Theatre Foyer)

11:00 – 12:30 **Symposium 7: Sex, stress and mental health** (Theatre)

**Chair: Dr. Eric Dumont (Queen’s University)**

Dr. Eric Dumont (Queen’s University)
*Sex-specific estrogenic neurophysiology in homeostasis brain circuits*

Dr. Victor Viau (University of British Columbia)
*Sex differences in the hypothalamic-pituitary adrenal (HPA) axis and stress habituation*

Dr. Nafissa Ismail (University of Ottawa)
*Pubertal probiotic treatment promotes resilience to stress-induced mood disorders*

Dr. Seema Bhatnagar (University of Pennsylvania)
*Sex differences in the role of orexins in mediating habituation to repeated stress and stress-induced changes in sleep and cognitive function*

12:30 – 14:00 Lunch (HSBC Hall/overflow)

13:00 - 15:00 **CCNP Poster Session 2** (HSBC Hall)

15:00 – 16:30 **Symposium 8: Antidepressant effects of ketamine: synaptic mechanisms and network dynamics** (Theater)

**Chair: Dr. Tak Pan Wong (McGill University)**

Dr. Tak Pan Wong (McGill University)
*Roles of the location of NMDA receptors in the antidepressant effects of ketamine*

Dr. Yu Tian Wong (University of British Columbia)
*Critical roles of glutamatergic receptors and synaptic plasticity in ketamine antidepressant actions*

Dr. Conor Liston (Cornell University)
*Sustained rescue of prefrontal circuit dysfunction by antidepressant-induced synaptogenesis*
Dr. Alexander McGirr (University of Calgary)
Cortical glutamatergic functional hyperconnectivity after chronic stress and selective network effects of subanesthetic ketamine

16:30  Poster Awards Presentation & Closing Remarks (Theatre)
Dr. Ridha Joober (McGill University)

CCNP 2018 Local Organizing Committee:
Dr. Alasdair Barr – University of British Columbia (Chair)
Dr. Willian Honer – University of British Columbia (Co-Chair)
Dr. Glen Baker – University of Alberta
Dr. Stephanie Borgland – University of Calgary
Dr. Matthew Hill – University of Calgary
Dr. Darrell Mousseau – University of Saskatchewan
Dr. Christian Schütz – University of British Columbia
Dr. Catharine Winstanley – University of British Columbia