

# CAN-ACN 2018 Satellite 4:

## Neural stem cells in development and adulthood

### Event Agenda

8h30: Arrival and Registration (**Pavilion A**, 3<sup>rd</sup> floor of the North Tower at the Sheraton Wall Centre).

9h00 Opening remarks Armen Saghatelian (CERVO Brain Research Center)

Session 1: Embryonic neurogenesis Chair: Michel Cayouette (Institut de recherches cliniques de Montréal)

9h10 Derek van der Kooy (University of Toronto)

*Primitive and definitive neural stem cells generate different types of neural progenitor cells*

9h40 Carol Schuurmans (Sunnybrook Research Institute)

*Maintaining embryonic neural stem cell quiescence via a proneural gene based toggle switch*

10h10 Michel Cayouette (Institut de recherches cliniques de Montréal)

*Transcriptional regulation of cone photoreceptor production in the developing retina*

10h40 *coffee break*

Session 2: Adult neurogenesis Chair: Armen Saghatelian (CERVO Brain Research Center)

11h00 Karl Fernandes (Université de Montréal)

*Biological properties of dormant neural stem cells revealed by genetic targeting in the adult murine brain*

11h30 Jing Wang (Ottawa Hospital Research Institute)

*Epigenetic Regulation of Lipid Metabolism in determining adult neural stem cell fate*

11h50 Armen Saghatelian (CERVO Brain Research Center)

*The role of Ca<sup>2+</sup> transients in the regulation of adult neural stem cells activity*

12h20 *Lunch* (included with registration: Burrard Room, Century Plaza Hotel, 1015 Burrard Street)

Session 3: Functional implication of adult NSCs and their activation for neural repair

Chair: Freda Miller (The Hospital for Sick Children)

14h00 David Kaplan (The Hospital for Sick Children)

*Revitalizing the aging neural stem cell niche*

14h30 Paul Frankland (The Hospital for Sick Children)

*Hippocampal neurogenesis and forgetting*

*15h00 coffee break*

15h20 Cindi Morshead (University of Toronto)

*Activating endogenous stem cells for neural repair*

15h50 Donald Mabbott (The Hospital for Sick Children)

*Metformin results in hippocampal remodeling and improved memory encoding in paediatric brain tumor survivors treated with cranial radiation: A pilot randomized controlled crossover study*

16h10 *Closing remarks* David Kaplan, Freda Miller, Armen Saghatelian

**Sponsors:**

CERVO Brain Research Center

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