

EARLY  
TRIGGERS  
OF PARKINSON'S  
DISEASE

ÉLÉMENTS  
DÉCLENCHEURS  
DE LA MALADIE  
DE PARKINSON

Toutes les conférences se dérouleront en anglais  
All presentations will be given in English

Programme / Program

Mai 21 - 22 May 2019

**41<sup>e</sup> Symposium international en neurosciences de l'Université de Montréal**  
**Éléments déclencheurs de la maladie de Parkinson**  
**Early Triggers of Parkinson's Disease**

Pavillon 3200, rue Jean-Brillant, local B-2245

**Comité organisateur / Organizing committee:** Antoine Duquette, Alexandru Hanganu, Nicole Leclerc, Daniel Lévesque, Diana Matheoud, Michel Panisset, Martine Tétreault, Louis-Eric Trudeau.

## Mardi, 21 mai / Tuesday, May 21

7 h 30 – 8 h 30      Accueil

8 h 30 – 9 h          Mots de bienvenue / Opening statements

**Christian Baron**, vice-doyen, recherche et développement, Faculté de médecine

**Patrick Cossette**, directeur, Département de neurosciences

**Michel Panisset**, professeur, Département de neurosciences

## SESSION 1

### Early phenotyping and detection of Parkinson's disease

Modérateur / Moderator: Antoine Duquette

9 h – 9 h 30          **Roger Barker, Ph.D.**  
Department of Clinical Neurosciences  
University of Cambridge, Cambridge, UNITED KINGDOM  
**Parkinson's Disease- one disorder or many?**

9 h 40 - 10 h 10      **Andrew D. Siderowf, M.D.**  
Department of Neurology  
University of Pennsylvania, Philadelphia, PA, USA  
**Prodromal Parkinson Disease: Lessons from PARS and PPMI**

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10 h 10– 10 h 40 Pause-café / Coffee break

10 h 40 – 11 h 20 **Antonio P. Strafella, Ph.D.**  
Campbell Family Mental Health Research Institute  
Department of Medicine's Division of Neurology  
University Health Network, Toronto, ON, CANADA  
**Neuroimaging biomarkers for early detection of Parkinsonism**

11 h 30 – 13 h Repas / Lunch: Cafétéria Jean-Brillant

13 h – 14 h Session d'affiches / Poster session

## SESSION 2

### Patient-derived systems to study early triggers and novel therapeutics

Modérateur / Moderator: Martine Tétreault

14 h – 14 h 30 **Thomas M. Durcan, Ph.D.**  
Department of Neurology and Neurosurgery  
Montreal Neurological Institute and Hospital  
McGill University, Montreal, QC, CANADA  
**Developing new models of Parkinson's through stem cells**

14 h 40 – 15 h 10 **Janelle Drouin-Ouellet, Ph. D.**  
Faculté de pharmacie  
Université de Montréal, Montréal, QC, CANADA  
**Direct neuronal reprogramming to study sporadic Parkinson's disease**

15 h 15 – 15 h 35 Pause-café / Coffee break

15 h 40 – 16 h 10 **Michela Deleidi, Ph.D.**  
Department of Neurodegenerative Diseases  
University of Tübingen, Tübingen, GERMANY  
**Innate immunity and immune cell metabolism: links to Parkinson's disease**

16 h 15 – 17 h 15 Session d'affiches / Poster session

18 h **Cocktail et banquet / Cocktail and banquet**  
Restaurant Le Cercle  
3000, chemin de la Côte-Sainte-Catherine, 6<sup>e</sup> étage

## Mercredi, 22 mai / Wednesday, May 22

7 h 40 – 8 h 40 Accueil

### SESSION 3

#### Early pathophysiological triggers and biomarkers of Parkinson's disease

Modérateur / Moderator: Daniel Lévesque

8 h 45 – 9 h 15 **Richard Youle, Ph.D.**  
Biochemistry section  
National Institute of Neurological Disorders and Stroke, Bethesda,  
MD, USA  
**Neuroinflammation stemming from mitochondrial DAMPs linked to Parkinson's disease genes and mitophagy defects**

9 h 20 – 9 h 50 **Francesca Cicchetti, Ph. D.**  
Département de psychiatrie et de neurosciences  
Université Laval, Québec, QC, CANADA  
**Erythrocytes derived microvesicles: a new biomarker of Parkinson's disease**

9 h 55 – 10 h 10 Pause-café / Coffee break

10 h 10 – 10 h 30 **Louis-Eric Trudeau, Ph. D.**  
Département de pharmacologie et de physiologie  
Université de Montréal, Montréal, QC, CANADA  
**Axonal abor size and bioenergetics and determinants of early vulnerability**

10 h 35 – 11 h 05 **Anurag Tandon, Ph.D.**  
Department of Medicine  
University of Toronto, Toronto, ON, CANADA  
**Gene therapy for synucleinopathies**

11 h 05 – 12 h 05 Session d'affiches / Poster session

12 h 05 – 13 h Repas / Lunch: Cafétéria Jean-Brillant

## SESSION 4

### Inflammation and immune responses as early triggers of Parkinson's

Modérateur / Moderator: Michel Desjardins

- 13 h – 13 h 30**      **Marina Romero-Ramos, Ph.D.**  
Department of Biomedicine  
Aarhus University, Aarhus, DENMARK  
**Peripheral Monocytic Cells in Parkinson's Disease**
- 13 h 35 – 14 h 05**      **Ashley S. Harms, Ph.D.**  
Department of Neurology  
University of Alabama at Birmingham, Birmingham, AL, USA  
**Alpha-Synuclein and the immune response in Parkinson's disease**
- 14 h 10 – 14h 25**      Pause-café / Coffee break
- 14 h 30 – 15 h**      **Malú G. Tansey, Ph.D.**  
Department of Physiology  
Emory University School of Medicine, Atlanta, GA, USA  
**The role of inflammation and immune responses in the gut-brain axis in Parkinson's disease**
- 15 h 05 – 15 h35**      **Diana Matheoud, Ph. D.**  
Département de neurosciences  
Centre de recherche du CHUM  
Université de Montréal, Montréal, QC, CANADA  
**Parkinson's disease related proteins PINK1 and Parkin are major regulators of the immune system**
- 15 h 40 – 16 h**      Mot de clôture / Closing statements