

2017 neuro RETREAT

TRANSLATING
KNOWLEDGE
OF NEURAL CIRCUIT
DEVELOPMENT,
FUNCTION
AND DYSFUNCTION
INTO IMPROVED
HEALTH CARE



Montreal Neurological Institute and Hospital
Institut et hôpital neurologiques de Montréal



McGill

Centre universitaire
de santé McGill



McGill University
Health Centre

October 27-29, 2017
Hotel Lac Carling
Grenville-sur-la-Rouge, Quebec

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Message from the Retreat Planning Committee Co-Chairs



Welcome to The Neuro Retreat 2017!

This year's Retreat provides a forum to discuss how we can best position The Neuro to be a leader in the translation of knowledge derived from our research activities into improved understanding of neurological conditions, better patient care and enhanced clinical practice. The Retreat also provides a stage to learn more about exciting new opportunities and initiatives at The Neuro and McGill.

The Program includes presentations by clinicians, geneticists, cell and developmental biologists, and neuroimagers. We have also included other events that will stimulate synergistic interactions among members of the diverse professional groups that make up The Neuro.

We would like to thank the members of the Neuro Retreat 2017 Planning Committee and everyone else who contributed suggestions and comments during the planning process. Many thanks also go to our sponsors.

Special thanks to Debbie Rashcovsky for managing and coordinating the planning process and the Retreat events, activities and logistics.

Alyson Fournier and Stefano Stifani
Co-Chairs, Neuro Retreat 2017 Planning Committee

The Neuro Retreat 2017 is being held at Hotel du Lac Carling, a location that offers a luxurious Laurentians getaway retreat framed by a panoramic view of the golf course and charming German-inspired decor.

Its facilities include fine dining at the Ayers Restaurant, outdoor lakefront activities including canoeing, kayaking, and pedal boating, exterior activities such as golf at the neighbouring Carling Lake Golf Club, and indoor activities as well in their indoor tennis court, swimming pool, and a full sports centre.

The spa experience is not to be missed with an indoor sauna and Jacuzzi, alongside offers such as hot stone massage. The Retreat weekend to be held at Hotel du Lac Carling promises to be a stimulating and unforgettable experience.



Planning Committee



Zahoor Chughtai

Jean-Francois Cloutier

Etienne De Villers-Sidani

Lucia Fabijan

Alyson Fournier (co-chair)


Sandra McPherson

Carlo Santaguida

Madeleine Sharp

Stefano Stifani (co-chair)

Deborah Rashcovsky (retreat coordinator)

Diana Valentini 

Program

Friday, 27 October

10:00 -10:30 Lobby - Arrival and Registration (refreshments available)

Argenteuil Room

10:30 -10:45 Welcome Address

Dr. Guy Rouleau

Director, Montreal Neurological Institute and Hospital (MNI/H)
Professor and Chair,
Department of Neurology & Neurosurgery, McGill University
Wilder Penfield Chair in Neuroscience

Retreat Goals

Dr. Stefano Stifani

Associate Director (Academic Affairs),
Montreal Neurological Institute
Professor, Department of Neurology and Neurosurgery,
McGill University

10:45 -12:00 **Symposium 1: “New opportunities in research and care”**

Chair: Dr. Stefano Stifani

10:45 - 11:05 **New Initiatives in Autism Research**

Azrieli Centre for Autism Research (ACAR),
Transforming Autism Care Consortium (TACC)

Dr. Guy Rouleau

11:10 - 11:30 **Tanenbaum Open Science Institute (TOSI)**

Ms. Annabel Seyller

Chief Operating Officer, TOSI

- 11:35 – 11:55 **Healthy Brains for Healthy Lives (HBHL)**
Dr. Alan Evans
Scientific Director, HBHL
Professor, Neurology, Psychiatry, & Biomedical Engineering,
McGill University
Associate Director,
McGill Neuroimaging and Neuroinformatics Group
- 12:00 -13:30  Lunch (Dining Room)
(Argenteuil Room)
- 14:00 -15:15 **Symposium 2: “Understanding Development and Anatomy of Neural Circuits to Understand Nervous System Dysfunctions”**
Chair: Dr. Jean-Francois Cloutier
MNI Neurodevelopmental Disorders Group
Professor, Dept. of Neurology and Neurosurgery,
McGill University
- 14:00 – 14:15 **Recycle Reuse Reinvent: New Roles for Developmental Guidance Cues in the Mature CNS**
Dr. Tim Kennedy
Neurodevelopmental Disorders Group
- 14:20 – 14:35 **Neuron-Glia Interactions in Circuit Development**
Dr. Edward Ruthazer
Neurodevelopmental Disorders Group
- 14:40 – 14:55 **From Neurons to Networks: Functionalized Circuit Tracing Strategies for Understanding Brain Circuits**
Dr. Stuart Trenholm
Neural Circuit Group, MGH

15:00 – 15:15 **Creating Astrocyte Diversity in the Brain to Support Brain Circuit Function and Health**
Dr. Keith Murai
Centre for Research in Neuroscience

15:20 – 15:40 ☐ Coffee break (2nd level, outside of Argenteuil Room) ☐—☐

15:45 – 17:35 **Symposium 3: “Functional Deficits Resulting from Imbalances of Neural Circuits”**
Chair: Dr. Madeleine Sharp
MNI Cognitive Neuroscience Group
Assistant Professor, Dept. of Neurology and Neurosurgery,
McGill University

15:45 – 16:00 **New Insights into Neurocognitive Aging**
Nathan Spreng
Cognitive Neuroscience Group

16:05 – 16:20 **Atypical Cortical Morphology and Macroscale Network Organization in Autism Spectrum Disorders**
Boris Bernhardt
Epilepsy Group

16:25 – 16:40 **Reward Processing In Basal Ganglia Disorders**
Madeleine Sharp


16:45 – 17:00 ☐ Coffee break (2nd level, outside of Argenteuil Room) ☐—☐

17:00 – 17:15 **Neural Biomarkers For Predicting Language Learning Success**
Denise Klein
Cognitive Neuroscience Group

17:20 – 17:35 **Improving Auditory Working Memory by Boosting Brain Oscillations with TMS**
Robert Zatorre
Cognitive Neuroscience Group

17:40 – 18:00 **Presentation**
The Neuro Philanthropy Bureau
Aniele Lecoq
MNI/H Executive Director, Philanthropy

18:15  Cocktails (Bar “Harrington”)

19:00 Dinner (Dining Room) 

Saturday, 28 October




7:30 -9:00 Breakfast (Dining Room)
 (Argenteuil Room)

9:00 -11:00 **Symposium 4: “Knowledge translation: challenges and opportunities”**
Chair: Dr. Etienne de Villers-Sidani
Neural Circuits Group

9:00 – 9:15 **The Demeye Project: Focusing on the Blurry Lines Between Academia, Medicine and Entrepreneurship**
Dr. Etienne de Villers-Sidani


- 9:20 – 9:35 **Playing Well With Others in the McGill Program in Neuroengineering**
Dr. Tim Kennedy
- 9:40 – 9:55 **Neurodegenerative Diseases Target Brain Networks**
Dr. Alain Dagher
Neuroimaging and Neuroinformatics Group
- 10:00 – 10:15 ☐ Coffee break (2nd level, outside of Argenteuil Room) ○—○
- 10:20 – 10:35 **Fun for the Brain: The New Frontier- For Acute Stroke Recovery**
Rosa Sourial & Dr. Jeanne Teitelbaum
Clinical Stroke Program
- 10:40 – 10:55 **The Neuro Open Innovation Hub**
Dr. Viviane Poupon
MNI Executive Director, Partnerships and Strategic Initiatives
- 11:00 -11:30 Discussion/Q & A
- 12:00 -13:30 ☐ Lunch (Dining Room) ○—○
- 13:30 -18:00 Free time/Brainstorming/Liaising/Other activities
- 15:00 - 16:00 Refreshments (Lobby)
- 18:00 -19:00 Cocktails (Bar “Watson”)
- 19:00 ☐ Banquet Dinner (Argenteuil Room)
- 21:30 Campfire by the Lake - Porto & chocolate ○—○

Sunday, 29 October

8:00 - 9:30  Breakfast (Dining Room) 
 (Argenteuil Room)

9:30 -12:00 **Workshop: The Steps Ahead**
Open discussion on how to build on the opportunities provided by HBHL, ACAR/TACC, TOSI and other initiatives to engage our professional groups in new research and knowledge translation initiatives

10:45  Pause - coffee break (2nd level, outside of Argenteuil Room)

12:30 **Concluding Remarks**
Dr. Guy Rouleau 

Raffle

Tickets to win several prizes donated by our 'in kind' sponsors will be available for purchase from Friday, October 27 at 12 noon until the drawing, Saturday evening at 9:00 pm. Cost per ticket is \$10 or 3 tickets for \$25. You may purchase your tickets at the Neuro 'registration' desk located in the Main Lobby.

The proceeds from the raffle will be directed towards our *"Putting Our Heads Together"* - *"Greatest Needs - Clinical Care"*.

The prizes are:



Painting, "And Then I Met You" (36" x 72")

Carolina Echeverria (Value: \$4,000)

Panasonic TV 49 inch, Life Screen 4K Ultra HD

Applied Electronics Limited (Value: \$1,300)

Apple iPad Air 2 tablet 32 GB, 9.7 "- **Insight Canada** (Value: \$449)

Painting, “Unveiled by the Moon”



Amanpreet Badhwar (Value: \$400)



Gift Certificate - **Dinner for two plus bottle service at Bord'Elle** (Value: \$350)



Gift Certificate - **Omni Mont-Royal Hotel - 1 night stay, buffet breakfast for 2**



Gift Certificate - **Catering by Bien Manger** (Value: \$100)



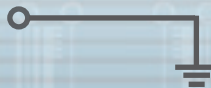
Gift Certificate - **Domenica - Little Italy Fine Grocery** (Value: \$50)



Gift Certificate - **Rona** (Value: \$50)



Gift Certificate - **Rona** (Value: \$50)



Silent Auction

Artist, Carolina Echeverria is donating her time, talent AND an original artwork which she will create over the course of the retreat weekend. She will be painting in the lobby Friday and Saturday afternoon, creating an original work of art. She will complete the painting during dinner Saturday evening. You will have an opportunity to bid on this painting in a silent auction throughout the retreat weekend up until 9:00 am Sunday morning. The successful bidder will be announced at the beginning of the workshop that morning. The bidding sheet is available at the Neuro registration desk located in the lobby.

The proceeds from the raffle and silent auction will be directed towards our “Putting our heads together” - “Greatest Needs - Clinical Care “.

About the Artist: Carolina Echeverria: our canary in a coal mine (Xavier Kataquapit)

Carolina with her incredible art has taken her own style and the influences of her life in Chile and that bold, colourful art of Norval Morrisseau to create some very powerful visions to give Native immigrants a voice in this country.

Love and a life partner drew her to Canada and although she was apprehensive of a move across continents and leaving her family and home, Carolina put her faith in her belief that people everywhere operate on a basis of goodness and inclusion. She was not disappointed and quickly began to develop as a mother, activist, artist and storyteller. She also improved her English and learned to speak French.

The fact that she had experienced a dark right wing period in Chile’s history under the dictator Augusto Pinochet provided her with the knowledge, strength and commitment to give a voice to immigrants, minorities and the disenfranchised right here in Canada. She is like our canary in a coal mine when it comes to identifying signs of weakening in our democracy.

As a Canadian and a Quebecer for almost 30 years, she has blazed a trail to develop as a visual artist who has exhibited across Canada and on the world stage. Carolina has been featured far and wide in media, including a two-year stint with CBC.

With her exhibition “Native Immigrant”, Carolina connects many peoples and in a style influenced by one of our greatest Aboriginal warrior artists. Her art is bright, colourful and extremely powerful. The images really challenge you and make you think. As she explained to me, she strives with her paintings to create a visual language of who we are and to encourage us to imagine a collective and inclusive future for Canada based on a sense of community, not merely nationality. (Xavier Kataquapit)

Extra-Curricular Activities at the Neuro Retreat 2017

○ — ○
○ Saturday, October 28



Tennis - 1:30 - 17:30
(racquets and tennis balls provided)

*To participate:
sign up at the registration desk.

****Friday, Saturday and Sunday - also available to families**

Hiking (5 - 7K)
map available at the Neuro desk



Lakeside activities



Kayaks (4), paddleboats (4) & canoes (2), life jackets provided

*To participate:
sign up at the registration desk.

Swimming



Gym - Nautilus Equipment



○ — ○
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Sponsors



The Montreal Neurological Institute and Hospital would like to thank the following for their gifts-in-kind:

Carolina Echeverria

Applied Electronics Limited

Insight Canada

Amanpreet Badhwar

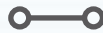
Bord'Elle, Boutique Bar & Eatery

Omni Mont-Royal Hotel

Domenica - Little Italy Fine Grocery

Bien Manger Caterer

Rona



We would also like to thank Ion Beam Applications for their sponsorship of \$1000 towards the Neuro Retreat 2017.



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