The Canadian Association
for Neuroscience presents

11th Annual Canadian Neuroscience Meeting 2017

Meeting Program

May 28–31, 2017

The Hilton Bonaventure Hotel
Montréal, Québec

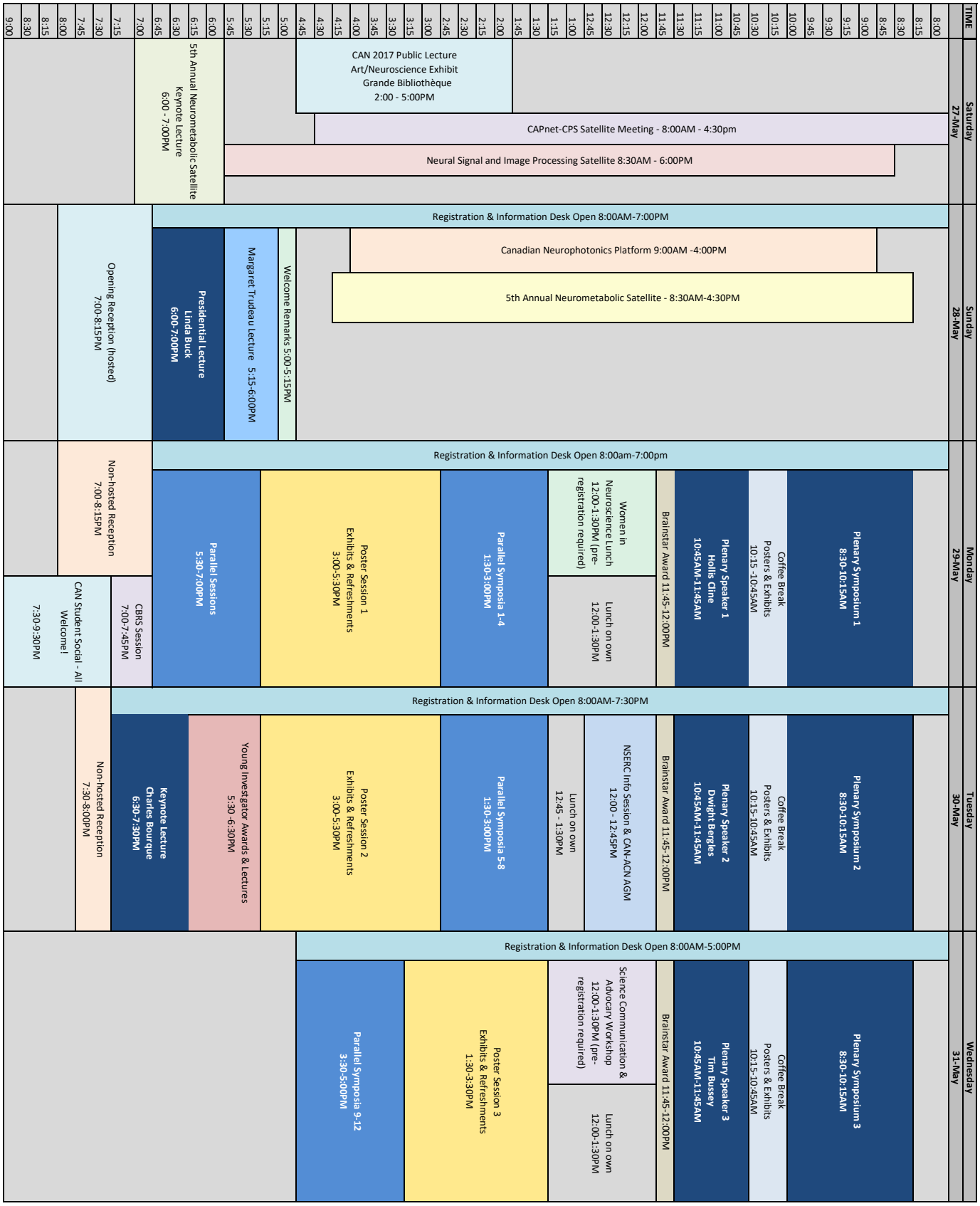
CAN-ACN

CANADIAN ASSOCIATION FOR NEUROSCIENCE
ASSOCIATION CANADIENNE DES NEUROSCIENCES

Place Des Arts

can-acn.org

PROGRAM AT A GLANCE



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LETTER FROM THE PRESIDENT

Dear Colleagues and Friends

I am happy to welcome you to the 11th annual Canadian Neuroscience Meeting in Montreal. The CAN meeting showcases the best neuroscience research in Canada every year, and has become the go-to place to network with the vibrant Canadian neuroscience research community.

The 2017 program committee, chaired by Jaideep Bains and co-chaired by Shernaz Bamji, has put together an exciting list of Keynote and Plenary speakers, which includes Nobel laureate Linda Buck, SfN Past-President Hollis Cline, Dwight Bergles, Charles Bourque and Tim Bussey. The program committee is proud to announce that it has achieved gender parity for plenary speakers for the first time this year.

Our scientific program will once again feature parallel symposia proposed and organized by our members. We thank all the members who submitted proposals, and our program committee, who had the difficult task of choosing, amongst the many excellent proposals received, the twelve who are featured this year. As you will see in the program, these sessions cover a wide range of research topics, highlighting the diversity and strength of Canadian neuroscience research. I would also like to emphasize that this truly excellent scientific program, including the Plenary and Keynote lectures, would not be possible without the funding provided by many different neuroscience organizations throughout Canada.

We are also proud to announce a new partnership with the International Brain Research Organization (IBRO), who is sponsoring a Women In Neuroscience lunch meeting, featuring a presentation by Hollis Cline, as well as providing travel awards and a networking reception for international trainees and for Canadian trainees working abroad attending the CAN meeting. We are also happy to welcome trainees participating in the Canadian IBRO School of Neuroscience, as we have in previous years. Importantly, IBRO is not our only new partner in the international neuroscience arena, since the International Society for Developmental Neuroscience is also sponsoring a Keynote Lecture and symposium.

Advocacy for neuroscience research and mental health issues is very important for our community, and as such I am delighted to be able to welcome mental health advocate Margaret Trudeau, who will speak to us on the opening night of the meeting. I would also like to highlight a number of other important advocacy initiatives at our conference this year, which are partially cosponsored with The Society for Neuroscience. First, the CAN advocacy committee will be giving out advocacy prizes again this year, in a session featuring the most innovative neuroscience research advocacy initiatives in the country. Second, for trainees, we are offering a neuroscience advocacy workshop for the first time this year. Finally, we would like to invite you to participate in a discussion about the development of a Canada-wide Brain Research Strategy, with incoming CAN President Lynn Raymond and important partners.

I hope you enjoy the meeting, and I look forward to welcoming you to Montreal.

Freda Miller
President of the Canadian Association for Neuroscience

Chers collègues et amis

Je suis heureuse de vous accueillir au 11ème congrès annuel de l'Association canadienne des neurosciences à Montréal. Le congrès CAN-ACN met en valeur la meilleure recherche en neurosciences au Canada à chaque année et est l'endroit idéal pour établir des liens avec la communauté canadienne de recherche en neurosciences.

Le comité du programme scientifique 2017, présidé par Jaideep Bains et co-présidé par Shernaz Bamji, a réuni une liste impressionnante de conférenciers pléniers et d'honneur, dont la lauréate du prix Nobel Linda Buck, la présidente sortante de SfN Hollis Cline, Dwight Bergles, Charles Bourque et Tim Bussey. Le comité du programme est fier d'annoncer qu'il a atteint la parité hommes-femmes pour les conférenciers pléniers pour la première fois cette année.

Les symposiums parallèles, proposés et organisés par nos membres, constitueront encore cette année une partie très importante de notre programme. Nous remercions tous les membres qui ont soumis des propositions, et notre comité du programme, qui a eu la difficile tâche de choisir, parmi les nombreuses excellentes propositions reçues, les douze qui seront présentées cette année. Comme vous le verrez dans le programme, ces séances couvrent un large éventail de sujets de recherche, mettant en lumière la diversité et la force de la recherche canadienne en neurosciences. Je tiens à souligner que notre excellent programme scientifique, incluant les conférences plénières et d'honneur, ne serait pas possible sans le soutien financier fourni par de nombreuses organisations de neurosciences de tout le pays.

Nous sommes également fiers d'annoncer un nouveau partenariat avec l'Organisation internationale de recherche sur le cerveau (International Brain Research Organisation - IBRO), qui parraine cette année un diner-rencontre pour les femmes en neurosciences, qui inclura une présentation de Hollis Cline. IBRO offrira également des bourses de voyage et une réception de réseautage pour des stagiaires internationaux travaillant au Canada et pour des stagiaires canadiens travaillant à l'étranger, pour soutenir leur participation au congrès CAN-ACN. Nous sommes également heureux d'accueillir les stagiaires qui participent à l'École des neurosciences canadiennes de l'IBRO, comme nous l'avons fait les années précédentes. Il est important de souligner que l'IBRO n'est pas notre seul partenaire international dans le domaine des neurosciences, puisque la Société internationale pour les neurosciences du développement (International Society for Developmental Neuroscience) commanditera cette année une présentation et un symposium.

La promotion et la défense de la recherche en neuroscience et en santé mentale sont très importantes pour nous et nos membres. À ce titre, je suis ravie de pouvoir accueillir Margaret Trudeau, une ardente défenseure de la santé mentale, qui nous parlera lors de la soirée d'ouverture du congrès. Je veux également souligner un certain nombre d'autres initiatives importantes de promotion des neurosciences qui auront lieu au congrès cette année, et qui sont partiellement commanditées par la Society for Neuroscience. Premièrement, le comité de promotion de l'ACN offrira encore des prix de promotion des neurosciences cette année, au cours d'une séance consacrée aux initiatives les plus novatrices au pays. Deuxièmement, pour les stagiaires, nous offrons pour la première fois cette année un atelier de formation en promotion des neurosciences. Enfin, nous aimerions vous inviter à participer à une discussion sur l'élaboration d'une stratégie pancanadienne de recherche sur le cerveau, avec la vice-présidente de l'ACN Lynn Raymond et des partenaires importants.

J'espère que vous apprécierez le congrès et je me réjouis de pouvoir vous accueillir à Montréal.

Freda Miller,
Présidente de l'Association canadienne des neurosciences

ABOUT CAN-ACN

CAN-ACN

CANADIAN ASSOCIATION FOR NEUROSCIENCE
ASSOCIATION CANADIENNE DES NEUROSCIENCES

The Canadian Association for Neuroscience is a community of scientists, researchers and students brought together with the common purpose of representing the interests of Canadian neuroscientists at national and international levels. CAN's mission is to promote communication among neuroscientists throughout Canada, and generate interest and understanding of the importance of scientific research and development.

CAN-ACN Annual Meeting

Since 2007, the Canadian Neuroscience Annual Meetings have been an important platform for researchers to present their work, generate scholarly debate, and obtain valuable feedback and be informed about the important neuroscience research done across country and abroad. This highly regarded conference is in its 11th year.

11th Annual Canadian Neuroscience Meeting 2017

The Canadian Association for Neuroscience presents

Download the official CAN Mobile App!

Building on the well-received usage of our app, we are excited to bring you the 2017 edition of the official CAN Mobile Meeting App! The app is, once again, available as a free download for iPhone, Android, Blackberry and all tablets, and in a web version for all other web browser-enabled smartphones. Maximize your time and experience with the CAN Meeting – scan the QR code to access the app.

The CAN app allows you to:

- View all conference information (sessions, abstracts, speakers, exhibitors, maps, attendee profiles, etc.) on your mobile device
- Build a personalized schedule and access any session handouts
- Find information quickly with the search feature
- Opt into messaging with other attendees
- Receive important conference-related notifications and updates
- Take notes on your mobile device during specific sessions with the ability to extract the information later
- Browse local restaurants and attractions
- **And much more…**

Did you access our app at the 2016 meeting in Toronto? If so, simply open the Podium App and select the 11th Annual Meeting App.

CAN-ACN LEADERSHIP

Elected members govern the Canadian Association for Neuroscience. These members comprise the Board of Directors who in turn elects Officers that comprise the Executive Committee. The Society's Bylaws govern how the Board manages the Society.

Executive Committee:

President: **Freda Miller** University of Toronto
Vice-president (President-elect): **Lynn Raymond** University of British Columbia
Secretary: **Edward Ruthazer** McGill University
Treasurer: **Ellis Cooper** McGill University

Board Members:

Past President: **Doug Munoz** Queen's University
Katalin Toth Université Laval
Shernaz Bamji University of British Columbia
Stephanie Borgland University of Calgary
Charles Bourque McGill University
William Colmers University of Alberta
Roger Thompson University of Calgary
Melanie Woodin University of Toronto

Incoming Executives:

Next CAN President-elect: **Jaideep Bains** University of Calgary
CAN Treasurer-elect: **Derek Bowie** McGill University
Next Vice-President-elect: **Katalin Toth** Université Laval
Next Secretary-elect: **Alyson Fournier** McGill University

Incoming Board Members:

Alanna Watt McGill University
Jean-Claude Béïque University of Ottawa
Martin Paré Queen's University

2017 Scientific and Local Program Committee

Conference Chair:
Jaideep Bains University of Calgary

Conference Co-Chair:
Shernaz Bamji University of British Columbia

Local Organizing Committee Chair:
Richard Robitaille Université de Montréal

2017 Scientific Program Committee Members

Jean-Claude Béïque	University of Ottawa
Maurice Chacron	McGill University
James Fawcet	Dalhousie University
Stephanie Fulton	Université de Montréal
Sarah McFarlane	University of Calgary
Martin Paré	Queen's University
Marco Prado	Western University
Catharine Rankin	University of British Columbia
Marie-Ève Tremblay	Université Laval
Ian Winship	University of Alberta

2017 Advocacy Committee

Chair **Katalin Toth**	Université Laval
Jaideep Bains	University of Calgary
Jean-Claude Béïque	University of Ottawa
Michael Hendricks	McGill University
David Kaplan	University of Toronto
Beverley Orser	University of Toronto
Anastasia Voronova	University of Toronto Liaison to CSMB
Doug Zochodne	University of Alberta

CAN-ACN Administration

ASSOCIATION SECRETARIAT & CONFERENCE MANAGEMENT

secretariat@can-acn.org

PODIUM CONFERENCE SPECIALISTS

- Marischal De Armond
- Pam Prewett
- Alaina Laflamme
- Michelle Smith

CHIEF OPERATING OFFICER

info@can-acn.org Julie Poupart

Membership Information

CAN membership is open to all scientists, principal investigators and students actively involved in neuroscience research from across Canada and around the world. CAN membership dues are paid annually and cover the calendar year from September 1st to August 31st.

Benefits

CAN-ACN membership includes the following benefits:

- Eligibility to submit or sponsor communications at CAN Scientific meetings
- A significant reduction on registration for our annual meeting
- Networking opportunities
- The possibility of advertising positions and meetings on the CAN-ACN website
- A forum to exchange information with colleagues and the general public
- Eligibility for CAN-ACN prizes and awards
- Members, Honorary Members and Emeritus Members, but not Student Members or Corporate Members, shall have the right to vote at any duly constituted business meeting of the Association and shall have the right to hold office in the Association.

TO BECOME A CAN-ACN MEMBER PLEASE VISIT US AT THE REGISTRATION DESK TODAY.

GENERAL CONFERENCE INFORMATION

Conference Venue

Hotel Bonaventure Montréal
900 Rue de la Gauchetière Ouest, Montréal, QC H5A 1E4
All conference sessions will take place in this location.

Registration

Annual Conference registration fees include access to all sessions including panel, symposium, and poster sessions. Registration also includes 2 daily refreshment breaks.

Name Badges

Your name badge is your admission ticket to the conference sessions, coffee breaks, and receptions. Please wear it at all times. At the end of the Conference we ask that you recycle your name badge in one of the name badge recycling stations that will be set out, or leave it at the Registration Desk.

Lost name badges:
There is a $25 replacement fee for any lost or missing name badges – If you've lost your name badge, visit the registration desk for a replacement as soon as possible.

Registration and Information Desk Hours

The CAN-ACN Registration and Information Desk, located in the Grand Ballroom Foyer will be open during the following dates and times:

Sunday, May 28	8:00 am to 7:00 pm
Monday, May 29	8:00 am to 7:00 pm
Tuesday, May 30	8:00 am to 7:30 pm
Wednesday, May 31	8:00 am to 5:00 pm

If you need assistance during the conference, please visit the Registration Desk.

Poster Information

Set-Up / Removal
There are three Poster Sessions during the Meeting and posters have been allocated to either one of the sessions based on poster themes. Poster presenters must set-up and remove their posters during the following times.

Poster Session 1 – Monday, May 29

Poster Hours:	10:15 am – 10:45 am
(lunch on own – posters will remain open)	12:00 pm – 1:30 pm
	3:00 pm – 5:30 pm
Poster set-up:	Sunday, May 28: 4:00 pm – 5:00 pm
	Monday, May 29: 7:30 am – 8:30 am
Removal of all posters by:	**7:00 pm on May 29**

Poster Session 2 – Tuesday, May 30

Poster Hours:	10:15 am – 10:45 am
(lunch on own – posters will remain open)	12:45 pm – 1:30 pm
	3:00 pm – 5:30 pm
Poster set-up:	Tuesday, May 30: 7:30 am – 8:30 am
Removal of all posters by:	**7:00 pm on May 30**

Poster Session 3 – Wednesday, May 31

Poster Hours:	10:15 am – 10:45 am
(lunch on own – posters will remain open)	12:00 pm – 1:30 pm
	1:30 pm – 3:30 pm
Poster set-up:	Wednesday, May 31: 7:30 am – 8:30 am
Removal of all posters by:	**5:00 pm on May 31**

Information on Poster Authors, Poster Numbers and Poster Titles begins on page 39. The poster abstract book can be downloaded from the CAN-ACN website. Posters can also be browsed using the CAN App by downloading the app from the Apple Store/Google Play Store

Message Board

For your convenience, a Message Board will be located near the Registration Desk. Feel free to leave messages of interest to other conference participants.

Wi-Fi Access

This code should be valid for 7 days from the start of the 2017 Meeting:
Network: **Conference Bonaventure**
Password/Code: **3482214573**

Staff

CAN-ACN staff from Podium Conference Management can be identified by ribbons on their name badges. Feel free to ask anyone of our staff for assistance. For immediate assistance please visit us at the Registration Desk.

Food Sales

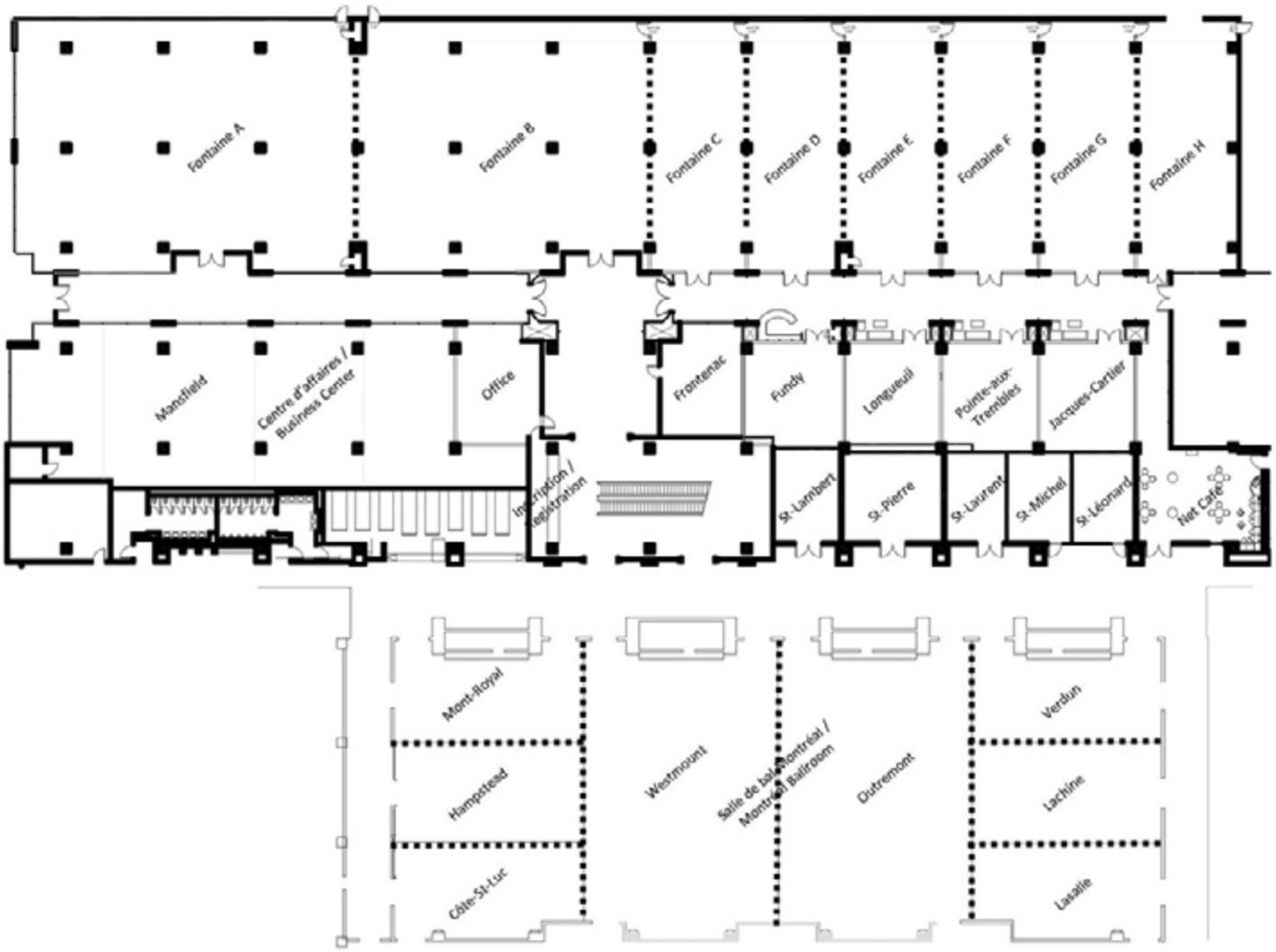
The hotel offers a selection of food and drinks for sale in the Net Cafe.

Menu item	Price (Including Taxes & Service)
Coffee, Tea, Herbal Tea	$ 5.85
Bottled Juice, Soft Drinks, Bottled Water	$ 5.85
Muffin, Croissant	$ 4.55
Brownies	$ 4.55
Home Baked Cookies	$ 3.60
Granola Bars	$ 4.55
Whole Fresh Fruit	$ 3.00
Sliced Fruits Package	$ 7.80
"Half" Lunch Box (Half Sandwich, Vegetable Sticks, Dip)	$ 13.00
Sandwich	$ 8.45
Green Salad, Dressing	$ 9.75
Vegetable Sticks, Dip	$ 6.00
Individual Bags of Chips	$ 4.90
Chocolate Bar (Candy Bar)	$ 4.90

Food Sales
Food courts are located in the basement of the hotel building, and in the Montreal Central Train Station, next door to the hotel.

Check out the Local Places in the CAN Conference App for more options.

GENERAL CONFERENCE INFORMATION



2017 Young Investigator Arwardees

Two CAN Young Investigator Awards in 2017:
Przemyslaw (Mike) Sapieha, from Université de Montréal, and Tuan Trang, from University of Calgary.

The Canadian Association for Neuroscience is proud to announce it will be awarding two Young Investigator Awards in 2017. The laureates are Przemyslaw (Mike) Sapieha, from Université de Montréal, and Tuan Trang, from University of Calgary. The CAN nominations committee was equally impressed with both candidates, who have made important contributions to our understanding of the brain and the nervous system in the early stages of their careers. Both winners have developed a strong program of basic, curiosity-driven research that have led to discoveries that can be used to improve the lives of Canadians.

Mike Sapieha

A leader in the fight against blindness.

In his young career, Mike Sapieha has already made impactful discoveries about the mechanisms underlying age and diabetes related loss of vision. His studies have shed light on the working of the eye, and specifically how age and conditions like diabetes affect blood vessels in the retina. Vascular defects in the retina, both age and diabetes related, are the leading cause of vision loss in developed countries. Dr Sapieha's research is especially timely in Canada as loss of vision is increasing exponentially with the rapidly aging population, and the increasing prevalence of diabetes.

Learn more about Mike Sapieha's research accomplishment in his Young Investigator profile:

http://can-acn.org/przemyslaw-mike-sapieha-will-receive-a-2017-can-young-investigator-award

Tuan Trang

Research to improve the lives of those living with chronic pain

Dr. Tuan Trang's research has led to a better understanding of the fundamental mechanisms underlying chronic pain, the mechanism of action of opioids and the role that immune cells of the central nervous system called microglia play in chronic pain and opioid response. Chronic Pain affects one in five adults in Canada – in the elderly population, this number reaches one in three. Finding new treatments and preventative approaches to the chronic pain epidemic is extremely timely and important. Dr. Trang's research findings have broad ramifications for opioid analgesia, opioid induced modification of nerve signaling and pain signaling in the spinal cord. His studies have the potential to have a significant impact for patients suffering from chronic pain.

Learn more about Dr. Tuan Trang in his Young Investigator profile:

http://can-acn.org/tuan-trang-will-receive-a-2017-can-young-investigator-award

The Canadian Association for Neuroscience congratulates both winners!

Doug Munoz,
Chair of the CAN-ACN nominations committee

AWARD WINNERS

BRAIN STAR AWARD WINNERS

MONDAY, MAY 29 11:45AM - 12:00PM

Claire Gizowski, Research Institute of the McGill University Health Centre

Clock-driven vasopressin neurotransmission mediates anticipatory thirst prior to sleep

Circadian rhythms have evolved to anticipate and adapt animals to the constraints of the earth's 24-hour light cycle1. Although the molecular processes that establish periodicity in clock neurons of the suprachiasmatic nucleus (SCN) are well understood, the mechanisms by which axonal projections from the central clock drive behavioural rhythms are unknown2–4. Here we show that the sleep period in mice (Zeitgeber time, ZT0–12) is preceded by an increase in water intake promoted entirely by the central clock, and not motivated by physiological need. Mice denied this surge experienced significant dehydration near the end of the sleep period, indicating that this water intake contributes to the maintenance of overnight hydromineral balance. Furthermore, this effect relies specifically on the activity of SCN vasopressin (VP) neurons that project to thirst neurons in the OVLT (organum vasculosum lamina terminalis), where VP is released as a neurotransmitter. SCN VP neurons become electrically active during the anticipatory period (ZT21.5–23.5), and depolarize and excite OVLT neurons through the activation of postsynaptic VP V1a receptors and downstream non-selective cation channels. Optogenetic induction of VP release before the anticipatory period (basal period; ZT19.5–21.5) excited OVLT neurons and prompted a surge in water intake. Conversely, optogenetic inhibition of VP release during the anticipatory period inhibited the firing of OVLT neurons and prevented the corresponding increase in water intake. Our findings reveal the existence of anticipatory thirst, and demonstrate this behaviour to be driven by excitatory peptidergic neurotransmission mediated by VP release from central clock neurons.

TUESDAY, MAY 30 11:45AM - 12:00PM

Sameer Agnihotri, Princess Margaret Cancer Centre

The Somatic Landscape of Schwannoma

Schwannomas are common peripheral nerve sheath tumors that can cause debilitating morbidities. We performed an integrative analysis to determine genomic aberrations common to sporadic schwannomas. Exome sequence analysis with validation by targeted DNA sequencing of 1 25 samples uncovered, in addition to expected NF2 disruption, recurrent mutations in ARID1A, ARID1B and DDR1. RNA sequencing identified a recurrent in-frame SH3PXD2A-HTRA1 fusion in 1 2/125 (10%) cases, and genomic analysis demonstrated the mechanism as resulting from a balanced 1 9-Mb chromosomal inversion on chromosome 1 0q. The fusion was associated with male gender predominance, occurring in one out of every six men with schwannoma. Methylation profiling identified distinct molecular subgroups of schwannomas that were associated with anatomical location. Expression of the SH3PXD2A-HTRA1 fusion resulted in elevated phosphorylated ERK, increased proliferation, increased invasion and in vivo tumorigenesis. Targeting of the MEK-ERK pathway was effective in fusion-positive Schwann cells, suggesting a possible therapeutic approach for this subset of tumors

WEDNESDAY, MAY 31 11:45AM - 12:00PM

Malika Oubaha, Université de Montréal

Senescence-associated secretory phenotype contributes to pathological angiogenesis in retinopathy

Pathological angiogenesis is the hallmark of diseases such as cancer and retinopathies. Although tissue hypoxia and inflammation are recognized as central drivers of vessel growth, relatively little is known about the process that bridges the two. In a mouse model of ischemic retinopathy, we found that hypoxic regions of the retina showed only modest rates of apoptosis despite severely compromised metabolic supply. Using transcriptomic analysis and inducible loss-of-function genetics, we demonstrated that ischemic retinal cells instead engage the endoplasmic reticulum stress inositol-requiring enzyme 1a (IRE1a) pathway that, through its endoribonuclease activity, induces a state of senescence in which cells adopt a senescence-associated secretory phenotype (SASP). We also detected SASP-associated cytokines (plasminogen activator inhibitor 1, interleukin-6, interleukin-8, and vascular endothelial growth factor) in the vitreous humor of patients suffering from proliferative diabetic retinopathy. Therapeutic inhibition of the SASP through intravitreal delivery of metformin or interference with effectors of senescence (semaphoring 3A or IRE1a) in mice reduced destructive retinal neovascularization in vivo. We conclude that the SASP contributes to pathological vessel growth, with ischemic retinal cells becoming prematurely senescent and secreting inflammatory cytokines that drive paracrine senescence, exacerbate destructive angiogenesis, and hinder reparative vascular regeneration. Reversal of this process may be therapeutically beneficial.

SPECIAL MEETINGS & SOCIAL EVENTS

SATURDAY, MAY 27, 2017

2:00 – 4:30 pm
Grande Bibliothèque
475, boulevard
De Maisonneuve Est

Canadian Association for Neuroscience 2017

Public Lecture

Sonia Lupien, neuroscientist, Director and founder of the Centre for studies on human stress, Institut universitaire en santé mentale de Montréal

Le stress : Ou comment chasser le mammouth sans y laisser sa peau

Art/Neuroscience Exhibit of the Convergence initiative

www.convergenceinitiative.org

SUNDAY, MAY 28, 2017

5:00 – 5:15 pm
Montreal Ballroom

Welcome and Opening Remarks

Freda Miller President of the Canadian Association for Neuroscience

5:15 – 6:00 pm
Montreal Ballroom

Special lecture

Margaret Trudeau Mental Health Advocate

6:00 – 7:00 pm
Montreal Ballroom

Presidential Lecture

Linda Buck Fred Hutchinson Cancer Research Center in Seattle

7:00 – 8:15 pm
Salon Fontaine & Foyer

Opening Reception (hosted)

Join us to celebrate CAN! Enjoy good food while catching up with old friends and making new ones to start off the annual meeting.

SPECIAL MEETINGS & SOCIAL EVENTS

MONDAY, MAY 29, 2017

12:00 – 1:30 pm
Salon Ville Marie

CAN WIN Mentorship Lunch: Your future in science: following your head and your heart
Dr. Hollis Cline

7:00 – 7:45 pm
Outremont

Canada-wide Brain Research Strategy Development session
Creating Synergy to make a difference

Find out why Canada needs a national brain research strategy, what this could look like and how it might be implemented with additional government funding, in order to drive transformative outcomes in neurological and mental health for Canadians.

Presentation of Canadian Brain Research Strategy (CBRS) by Lynn Raymond and Yves De Koninck, partnered with presentations from the Neurological Health Charities Canada (NHCC) and the Canadian College of Neuropyschopharmacology (CCNP).

7:00 – 7:30 pm
Montreal Ballroom Foyer

Reception (non-hosted)
Grab a quick drink in the Foyer with your colleagues at the end of the first day. Bars will be set up in the Foyer to make evening plans, discuss the day and network with fellow attendees.

7:00 – 7:45 pm
Fundy Room

International Trainee reception (IBRO sponsored, by invitation only)

7:30 – 9:30 pm
Sir Winston Churchill Pub
1459 Rue Cresent

CAN Student Social
First drink is complimentary for students.

TUESDAY, MAY 30, 2017

12:00 – 12:45 pm
Montreal Ballroom

CAN-ACN Annual General Meeting & NSERC Info Session

6:30 – 7:30 pm
Montreal Ballroom

Keynote Lecture
Charles Bourque McGill University

7:30 – 8:00 pm
Montreal Ballroom Foyer

Reception (non-hosted)

7:30 – 10:00 pm
Visual Voice Gallery
Belgo Building, Space 421,
372 Rue Sainte-Catherine Ouest.

Neurocraft Opening Reception at Visual Voice Gallery
Neurocraft is an exhibition of neuroscience-themed art pieces that have been produced through a collaboration between the Manitoba Neuroscience Network and the Manitoba Craft Council.

The opening reception is an exclusive reception and viewing.

WEDNESDAY, MAY 31, 2017

12:00 – 12:30 pm
Salon Bonaventure

Science Communication and Advocacy Workshop
"All You Need Is Love… And A Little Help From Your Friends."
A Science Communication and Advocacy Workshop
Jason A. Tetro Advocacy Officer, CAN

CAN SATELLITE MEETINGS

Each year, the opportunity for like-minded groups to hold a Satellite Meeting at CAN-ACN is offered. This year, CAN-ACN is pleased to offer the following satellite meetings. If you or a group you are involved in are interested in holding a satellite meeting at future CAN-ACN meetings, please stop by the registration desk to speak to a member of the planning team.

SATURDAY, MAY 27

8:00 am – 4:30 pm **SATELLITE 1**
Salon Bonaventure

CAPnet-CPS CAN-ACN Satellite symposium

Perception, Action and their interaction: Data, Models and Dysfunction

This one-day satellite symposium focuses on perception and sensorimotor processes underlying the control of vision and movement in healthy and clinical populations.

Jointly organized by the Canadian Action and Perception Network (CAPnet), a neuroscience research consortium that focuses on sensation, perception, and movement control, and by the Canadian Physiological Society (CPS) we invite abstract submission.

The satellite is open to everyone and will highlight presentations from neuroscientists across Canada in talk sessions, a poster session, and a keynote lecture given by the recipient of the 2017 CPS Sarrazin Lectureship.

Sponsored by: **Western, the Brain and Mind Institute**

Western
The Brain and Mind Institute

6:00 pm **SATELLITE 2**
Verdun/Lachine

Keynote Lecture: 5th Annual Canadian Neurometabolic Meeting

The 5th Annual Canadian Neurometabolic meeting welcomes all researchers working on CNS controls of appetite, energy metabolism, obesity and related disorders. The objective of the meeting is to provide a platform for trainees to present their research, in the form of short talk or poster, and to foster interactions and exchange amongst scientists interested in brain-metabolism interplay.

Thanks to our sponsors this meeting is free.

Harvey Grill, PhD Professor of Psychology, University of Pennsylvania, Obesity Unit Director of the Penn Institute for Diabetes, Obesity and Metabolism

Treating the hyperphagia driving obesity: Focus on feeding inhibition

8:30 am – 6:00 pm **SATELLITE 5**
Lasalle

Neural Signal and Image Processing: Quantitative Analysis of Neural Activity

Given the exponentially growing size and complexity of experimental data, advanced data analyses methods are proving to be indispensable for neuroscience research. In this workshop we will overview different analysis methods used in variety of neuroscience fields to help to understand complex brain signals. The target audience of the workshop will be graduate students, postdoctoral researchers and principal investigators in neuroscience and psychology with interest in data analysis. The course will combine lectures and hands-on tutorials using MATLAB. Participants will perform the computer exercises using data sets and analysis software on their own laptop computers. Participants will be expected to bring laptops with installed Matlab. Access to additional MATLAB toolboxes will be provided, if needed.

Scope: This short course will provide a survey of diverse topics, including methods for analyzing single and multiple spike trains, local field potential, EEG/MEG recordings, optical imaging data, and fMRI data.

Sponsored by: **Tucker-Davis**

TUCKER-DAVIS TECHNOLOGIES

CAN SATELLITE MEETINGS

SUNDAY, MAY 28

8:30 am – 4:30 pm Lachine/Lasalle

SATELLITE 2

5th Annual Canadian Neurometabolic Meeting
Short talks + poster session with lunch

9:00 am – 4:00 pm Verdun

SATELLITE 3

Canadian Neurophotonics Platform

One of the greatest challenges of modern science is to decipher the functional connectome of nature's most complex organ, the human brain. A key to success in this effort is to develop and exploit technologies that allow us to probe and manipulate brain microcircuits from the level of single synapses – and even nanoscale substructures within synapses – to entire circuits in the intact brain in behaving animals. Light-based tools represent the enabling technology in this endeavour.

An all-day short course to articulate new methods and applications of light microscopic imaging and optogenetic manipulation of nervous system tissues. Optogenetics topics include: optogenetic probe development, optogenetic activation and inhibition, with emphasis on region selective expression, light, and probe delivery. Imaging topics include: in vivo approaches (2-photon fast scanning, wide-field), super-resolution imaging, and methodologies for assessing the structure and function of large brain networks. Data analysis topics include visualization of activity in large networks, and image processing strategies to improve light microscopic images.

Sponsored by: **The Canadian Neurophotonics Platform funded by Brain Canada and partners**

Notes

ANNUAL CONFERENCE SCHEDULE

SATURDAY, MAY 27, 2017

2:00 – 5:00 pm
Grande Bibliothèque

CAN 2017 Public Lecture Art/Neuroscience Exhibit

8:00 am – 4:30 pm
Salon Bonaventure

SATELLITE 1
CAPnet-CPS CAN-ACN Satellite symposium
Perception, Action and their interaction: Data, Models and Dysfunction
Sponsored by: **Western University, The Brain and Mind Institute**

6:00 pm
Vedun/Lachine

SATELLITE 2
5th Annual Canadian Neurometabolic Meeting

Keynote lecture
Harvey Grill, PhD Professor of Psychology, University of Pennsylvania, Obesity Unit Director of the Penn Institute for Diabetes, Obesity and Metabolism

Treating the hyperphagia driving obesity: Focus on feeding inhibition

8:30 am – 6:00 pm
Verdun/Lachine

SATELLITE 5
Neural Signal and Image Processing: Quantitative Analysis of Neural Activity
Sponsored by: **Tucker-Davis**

SUNDAY, MAY 28, 2017

8:30 am – 4:30 pm
Verdun/Lachine

SATELLITE 2
5th Annual Canadian Neurometabolic Meeting

9:00 am – 4:00 pm
Lasalle

SATELLITE 3
Canadian Neurophotonics Platform

5:00 – 5:15 pm
Montreal Ballroom

Welcome and Opening Remarks
Freda Miller, President of the Canadian Association for Neuroscience

5:15 – 6:00 pm

Special lecture
Margaret Trudeau, Mental Health Advocate

Sponsored by: **The Djavad Mowafaghian Centre for Brain Health**

6:00 – 7:00 pm

Presidential Lecture
Linda Buck, Fred Hutchinson Cancer Research Center in Seattle

Sponsored by: **Hotchkiss Brain Institute**

7:00 – 8:15 pm
Salons Fontaine & Foyer

Opening Reception
Supported by: **the Lady Davis Institute**

ANNUAL CONFERENCE SCHEDULE

MONDAY, MAY 29, 2017

8:30 – 10:15 am — Montreal Ballroom

Plenary Symposium 1

Growing, wiring and refining neural circuits in the developing brain.

Chair:

Edward Ruthazer, McGill University

Speakers:

Karun Singh, McMaster University

Signaling mechanisms regulating neural circuit formation and their relevance to neurodevelopmental disorders

Julie LeFebvre, SickKids Hospital

The Protocadherin cell-surface code promotes the wiring and survival of inhibitory interneurons into brain circuits.

Graziella DiCristo, Université de Montréal

Mechanisms of refinement of cortical GABAergic circuits

10:15 – 10:45 am — Poster & Exhibit Hall Salons Fontaine

Coffee break Posters/exhibits

10:45 – 11:45 am — Montreal Ballroom

Featured Plenary speaker

Hollis Cline, The Scripps Research Institute

Building circuits to process visual information

Sponsored by: **The International Society for Developmental Neuroscience (ISDN)**

11:45 am – 12:00 pm

Brain Star Talk

12:00 – 1:30 pm

Lunch on own

Salon Ville Marie

CAN WIN Mentorship Lunch (Registration required, limited attendance)

Your future in science: following your head and your heart'

Hollis Cline, The Scripps Research Institute

Sponsored by: **IBRO**

1:30 – 3:00 pm — Montreal Ballroom A

Parallel Symposia

Symposium 1

Sleep mechanisms and functions

Chair

Valérie Mongrain, Université de Montréal

Speakers

John Peever, University of Toronto

Circuits controlling REM sleep in health and disease

Barbara E Jones, McGill University

Arousal systems and their regulation by sleep

Emma K O'Callaghan, Actual Analytics, Edinburgh

Contribution of circadian components to sleep homeostasis

Robbert Havekes, University of Groningen, The Netherlands

The tired hippocampus: insight into the molecular origins of hippocampal memory deficits associated with sleep loss

Montreal Ballroom B

Symposium 2

Critical Mediators of Pain: Uncovering Novel Therapeutic Targets

Chair

Michael Hildebrand, Carleton University

Speakers

Daniela Salvemini, Saint Louis University
Deregulation of adenosine signaling at the A3 adenosine receptor subtype drives chronic neuropathic pain states - new insights in a novel therapeutic target.

Michael Hildebrand, Carleton University
Molecular determinants of dorsal horn hyperexcitability in pathological pain processing

Laura Stone, McGill University
Preventing pain at the source: targeting intervertebral disc degeneration as a therapeutic strategy for low back pain.

Montreal Ballroom C

Symposium 3

Control of locomotor activity: from the cortex to the spinal cord

Chair

Simon Gosgnach, University of Alberta

Speakers:

Trevor Drew, Université de Montréal
Walking 101 : What the brain tells the spinal cord.

Alain Frigon, Université de Sherbrooke
The control of left-right coordination during locomotion by spinal circuits interacting with somatosensory feedback

Ying Zhang, Dalhousie University
The local circuits of V3 interneurons in the spinal cord

Patrick Whelan, University of Calgary
The control of left-right coordination during locomotion by spinal circuits interacting with somatosensory feedback

Montreal Ballroom D

Symposium 4

Genetic and Optogenetic Investigation of Neural Circuit Mechanisms for Behaviours

Chair

Mei Zhen, Lunenfeld-Tanenbaum Research Institute

Speakers:

Kenichi Okamoto, Lunenfeld-Tanenbaum Research Institute
Novel optogenetic approaches for studying spatiotemporal roles of cAMP and cGMP signalling from the synapse level to the brain cognitive function

Oyama Tomoko, McGill University
Multilevel multimodal integration enhances action selection in Drosophila

Michael Hendricks, McGill University
Functional asymmetry for temporal stimulus features in C. elegans

Michael Gordon, University of British Columbia
Neural circuit mechanisms for integrating taste, hunger, and nutrient detection in Drosophila

ANNUAL CONFERENCE SCHEDULE

3:00 – 5:30 pm **Posters session 1**
Poster & Exhibit Hall
Salon Fontaine
Exhibits & Refreshments

Sponsored by: **McMaster University - Stem Cell & Cancer Research Institute**

5:30 – 7:00 pm **Parallel Sessions**

Montreal Ballroom A **Careers Session**

Montreal Ballroom B **Highlight of Canadian Neuroscience Advocacy Initiatives and Networking**

7:00 – 7:30 pm **Reception** (non-hosted)

7:00 – 7:45 pm **Canada-wide Brain Research Strategy Development session**
Montreal Ballroom C

7:00 – 7:45 pm **IBRO International Trainee reception** (IBRO sponsored, by invitation only)

7:30 – 9:30 pm **CAN Student Social**
Sir Winston Churchill Pub
1459 Rue Crescent

TUESDAY, MAY 30, 2017

8:30 – 10:15 am **Plenary Symposium 2**
Montreal Ballroom
Glia and brain function
Chair:
Richard Robitaille, Université de Montréal

Speakers:
Richard Robitaille, Université de Montréal
Glial Mismanagement of Neuromuscular Junction Structure and Function in Amyotrophic Lateral Sclerosis

Marie-Ève Tremblay, Centre Hospitalier de l'Université Laval
Microglia-synapse interactions in health and disease

Grant Gordon, University of Calgary
Behavioral State Dependence of Cortical Astrocyte Ca2+ Signals During Neurovascular Coupling

10:15 – 10:45 am **Coffee break**
Poster & Exhibit Hall Salon Fontaine

10:45 – 11:45 am **Featured Plenary speaker**
Montreal Ballroom
Multi-scale analysis of astrocyte activity in the mammalian brain
Dwight Bergles, Johns Hopkins University

Sponsored by: **Université de Montréal**

11:45 am – 12:00 pm **Brain Star talk**

12:00 – 12:45 pm **CAN-ACN Annual General Meeting of members & NSERC Info Session**

12:45 – 1:30 pm **Lunch on own**

1:30 – 3:00 pm Parallel Symposia

Montreal Ballroom A

Symposium 5

Memory symphony: the score, the orchestra and the conductor

Chair:
Lisa Topolnik, Université Laval

Speakers:
Mark Brandon, McGill University
Space and time in the entorhinal-hippocampal circuit in health and Alzheimer's disease

Attila Losonczy, Columbia University
Dissecting hippocampal circuits for navigation and memory

Lisa Topolnik, Université Laval
VIP members of the hippocampus

Sylvain Williams, McGill University
Optogenetic manipulation and visualization of neuronal assemblies during memory formation

Montreal Ballroom B

Symposium 6

Mitochondria as a therapeutic target in Parkinson's disease

Chair:
Louis-Eric Trudeau, Université de Montréal

Speakers:
Louis-Eric Trudeau, Université de Montréal
Is increased basal bioenergetics a common property of vulnerable neuronal populations in Parkinson's disease?

Joanne Nash, University of Toronto
SIRT3 rescues dopaminergic neurons through stabilisation of mitochondrial biogenetics in a rat model of parkinsonism

Ruth Slack, University of Ottawa
Mitochondrial restructuring to enhance ATP production and resistance to stress.

David Park, University of Ottawa
Letm1 as a substrate of the Parkinson's disease gene pink1

Montreal Ballroom C

Symposium 7

Emerging roles of the cerebellum in shaping brain development and disease

Co-Chairs
Lu-Yang Wang, SickKids Research Institute & Hospital
Alanna Watt, McGill University

Speakers:
Yi-Mei (Amy) Yang, University of Minnesota
Molecular underpinnings of excessive inhibition in cerebellum with Autism Spectrum Disorder

Derek Bowie, McGill University
Defective excitatory and inhibitory circuits of the Fragile-X brain

Alanna Watt, McGill University
Ameliorating motor incoordination in a mouse model of spinocerebellar ataxia

Montreal Ballroom D

Symposium 8

Stroke Recovery: From circuitry to behaviour

Chair

Diane Lagace, University of Ottawa

Speakers:

Baptiste Lacoste, Ottawa Hospital Research Institute
Assessing Pathological Cerebrovascular Remodeling

Tim Murphy, University of British Columbia
Automated Mesoscale Circuit and Motor Function Assessment in Mouse Models of Stroke

Diane Lagace, University of Ottawa
Neurogenesis and Stroke Recovery

Dale Corbett, University of Ottawa
Stroke Recovery: Does Rehabilitation Matter?

3:00 – 5:30 pm Poster & Exhibit Hall

Posters session 2

Exhibits & Refreshments

5:30 – 6:30 pm Montreal Ballroom

Young investigator award and lecture

Przemyzlaw (Mike) Sapieha, Université de Montréal
Neurovascular Interactions in Retinopathies

Tuan Trang, University of Calgary
Pain, poppies, and pannexin-1 channels

6:30 – 7:30 pm

Keynote Lecture

Control of body hydration by heat, salt and circadian time

Charles Bourque, McGill University

Sponsored by: **McGill University**

7:30 – 8:00 pm Montreal Ballroom Foyer

Reception (non-hosted)

WEDNESDAY, MAY 31, 2017

8:30 – 10:15 am Montreal Ballroom

Plenary Symposium 3

Memory & Cognition

Chair:

Paul Frankland, University of Toronto

Speakers:

Kari Hoffman, York University
Multiple roles of the primate hippocampus in visual exploration

Katherine Duncan, University of Toronto
Memory States in the Human Brain and Behaviour

Paul Frankland, University of Toronto
Identification and interrogation of a fear memory network

10:15 – 10:45 am — **Coffee break**
Poster & Exhibit Hall

10:45 – 11:45 am — **Featured Plenary speaker**

Tim Bussey, Western University
How is memory organized? Memory Systems versus the Representational-Hierarchical View

Sponsored by: **SickKids Centre for Brain & Mental Health and Neurosciences & Mental Health**

11:45 am – 12:00 pm — **Brain Star talk**

12:30 – 1:30 pm — **Lunch on own**

Salon Bonaventure — **Science Communication and Advocacy Workshop**
(Registration required – limited attendance)

1:30 – 3:30 pm — **Posters session 3**
Poster & Exhibit Hall — Exhibits & Refreshments

3:30 - 5:00 pm — **Parallel Symposia**

Montreal Ballroom A

Symposium 9
Epigenetics, DNA Methylation, and Mental Health
Chair

Mojgan Rastegar, University of Manitoba

Speakers:

Mojgan Rastegar, University of Manitoba
A multi-level epigenetic deregulation in the brain of Rett Syndrome patients

Nathalie Berube, Western University
Chromatin organization in the developing brain

Patrick McGowan, University of Toronto
The impact of adversity on the DNA methylome

James Davie, Children's Hospital Research Institute of Manitoba
DNA Methylation and FASD

Montreal Ballroom B

Symposium 10
New Insights into Reconsolidation
Chair

Karim Nader, McGill University

Speakers:

Karim Nader, McGill University
Recovery from Amnesia is Fool's Gold; specific impairments in consolidation, reconsolidation and long-term memory maintenance lead to memory erasure.

BK Kaang, Seoul National University
Multiple repressive mechanisms in the hippocampus during memory formation

Martin Cammarota, Federal University of Rio Grande do Norte
How to break the constraints on reconsolidation

Merel Kindt, University of Amsterdam
An Abrupt Transformation of Phobic Behavior After a Post-Retrieval Amnesic Agent

Montreal Ballroom C

Symposium 11

Estrogen's effect on cognition and the brain: A translational perspective

Chair

Gillian Einstein, University of Toronto

Speakers:

Nicole Gervais, University of Toronto
Impact of ovarian hormones on recognition memory and perirhinal cortex in rats and humans

Agnès Lacreuse, University of Massachusetts
Neurocognitive effects of estrogens in female non-human primates across the adult lifespan

Elizabeth Hampson, Western University
Estrogen's Effects on Frontocortical Memory in Peri- and Postmenopausal Women

Montreal Ballroom D

Symposium 12

Mechanisms of Neuronal Migration and Regeneration

Chair

Claire Bénard, UQAM / UMass Medical School

Speakers:

Nicolas Pilon, UQAM
Fam172a is critically required for neural crest cell migration and proliferation

Claire Bénard, UQAM / UMass Medical School
Extracellular modulators of axonal guidance and long-term neuronal protection

Timothy Kennedy, McGill University
Netrin-1 and GAG Function in CNS Perineuronal Nets

Alexandra Byrne, UMass Medical School
Poly(ADP-Ribosylation) Regulates Axon Regeneration

– END OF MEETING –

PLENARY SYMPOSIA AND KEYNOTE SESSIONS

SUNDAY, MAY 28, 2017

5:15 – 6:00 pm **Special lecture**

Margaret Trudeau, Mental Health Advocate

6:00 – 7:00 pm **Presidential Lecture**

Linda Buck, Fred Hutchinson Cancer Research Center in Seattle

Djavad Mowafaghian
CENTRE FOR BRAIN HEALTH

HOTCHKISS
BRAIN INSTITUTE

Deconstructing Smell

The sense of smell allows mammals to perceive a multitude of environmental chemicals as having a distinct odor. It also mediates the detection of pheromones and predator odors that elicit innate responses. We are interested in how the olfactory system detects different chemicals and how the nervous system translates those chemicals into diverse perceptions and behaviors. Using a combination of molecular, cellular, and genetic approaches, we have identified families of receptors that initially detect odorants and pheromones in peripheral sense organs, asked how those receptors encode the identities of different chemicals, and investigated how the signals they generate are routed and organized in the nervous system to yield distinct perceptions and instinctive responses. Our work also touches on other neural circuits that affect emotions and innate drives that modulate behavior.

MONDAY, MAY 29, 2017

Plenary Symposium 1

Growing, wiring and refining neural circuits in the developing brain.

Chair:
Edward Ruthazer, McMaster University

Speakers:
Karun Singh, McMaster University

Signaling mechanisms regulating neural circuit formation and their relevance to neurodevelopmental disorders

The development of the mammalian brain requires precise formation of synaptic connections between neurons, and abnormalities in this process are thought to play a central role in the pathophysiology of autism spectrum disorders (ASDs). Signaling cascades, including multiple kinases, play key roles in initiating, promoting and stabilizing the growth of synapses in the cerebral cortex. We are interested in identifying novel signaling molecules and mechanisms that regulate this process with a specific goal to determine if disruption of these pathways is implicated in neurodevelopmental disorders. Our work focuses on understanding how a member of the MAP serine/threonine kinase family signals to regulate excitatory synapse development and maturation. We have identified that KO mice have multiple abnormalities in synapse development and excitatory neurotransmission in the cortex, leading to learning and memory, and social deficits. Our recent work has also identified novel mutations in this molecule from subjects with Autism. Testing of the mutations reveals they impair kinase activity, leading to abnormal development of dendritic arbors and synapses. This demonstrates that clinically-derived mutations have a detrimental impact on neurodevelopment. In addition, we have recently begun to examine the effects on a human in vitro KO model of neurodevelopment. Together, our data describe how specific members of the MAP kinase family regulate dendritic and synapse development, and provide novel insight into the molecular mechanisms of neurodevelopmental disorders.

Julie LeFebvre, Sickkids Hospital

The Protocadherin cell-surface code promotes the wiring and survival of inhibitory interneurons into brain circuits.

In many brain regions, inhibitory interneurons migrate over long distances and integrate into neural circuits with highly specific patterns in their distribution, number, and synaptic targeting. We know little of the molecular cues that coordinate local interactions for wiring of interneurons. We propose that the clustered Protocadherins (Pcdhs), a large family of cell-surface molecules, promote the morphogenesis and survival of inhibitory interneurons by mediating cell-cell interactions with target cells in developing brain circuits. The clustered Pcdhs comprise ~60 cadherin-related transmembrane proteins with an extraordinary potential for cell-surface diversity and wiring specificity. Pcdh isoforms have been shown to be combinatorially expressed among individual neurons and to engage homophilic interactions. With properties that greatly amplify cell-surface diversity and selectivity, Pcdhs are proposed to serve as a code of 'neuron individuality' to mediate complex patterns of connectivity. Our previous work in the mouse retina revealed roles for Pcdhs in dendrite self-avoidance and interneuron survival during circuit formation. Here, I will discuss our recent findings on the roles for Pcdhs in the development of GABAergic inhibitory cells in the brain. Juvenile mice lacking Pcdhs from broad classes of GABAergic cells exhibit dramatic motor deficits, anxiety, and epileptic seizures. I will discuss ongoing work in which we focus on cortical and cerebellar circuits to elucidate how Pcdhs regulate dendritic and axonal patterning and promote the survival of inhibitory interneurons during circuit formation. These studies could yield new insights on the local interactions and molecular cues required for proper establishment of inhibitory cells into circuits.

Grazielle DiCristo, Université de Montréal

Mechanisms of refinement of cortical GABAergic circuits

Within the forebrain, GABAergic (γ-aminobutyric acid producing) interneurons possess the largest diversity in morphology, connectivity, and physiological properties. Cortical GABAergic circuit development is a prolonged process that extends well into adolescence. The maturation of GABAergic connectivity is activity-dependent and, in turn, it affects neuronal circuit refinement during postnatal period of heightened plasticity. One of the most prominent classes of cortical GABAergic cells are the parvalbumin (PV)-positive interneurons, which specifically target the soma and proximal dendrites of pyramidal cells, hence the name of "basket cells". PV cells can adjust the gain of integrated synaptic responses and have been implicated in synchronizing the firing of neuronal populations and in generating gamma oscillations, which are important for perception, selective attention, working memory and cognitive control in humans and rodents. Importantly, PV cells have also been involved in experience-dependent refinement of cortical circuits during postnatal development, or critical period plasticity.

Featured Plenary speaker

Hollis Cline, The Scripps Research Institute

Building circuits to process visual information

Visual experience is essential to establish functional connectivity throughout the visual system, however the mechanisms by which activity influences neuronal development and circuit connectivity are not clear. Using Xenopus tadpoles we have identified the cellular and molecular effects of visual experience on topographic map formation, on tectal cell development and on development of the visual circuit. Dr. Cline will present results of in vivo imaging experiments demonstrating novel cellular mechanisms by which experience controls visual circuit plasticity and function.

TUESDAY, MAY 30, 2017

Plenary Symposium 2

Glia and brain function

Chair:
Richard Robitaille, Université de Montréal

Speakers:
Richard Robitaille, Université de Montréal

Glial Mismanagement of Neuromuscular Junction Structure and Function in Amyotrophic Lateral Sclerosis

A major pathogenic events in Amyotrophic Lateral Sclerosis (ALS) is the destruction of neuromuscular junctions (NMJ) leading to an extended denervation and retraction of the nerve terminal at the NMJ. Despite the importance of NMJ malfunction and the reported involvement of other glial cells in ALS, the contribution of Perisynaptic Schwann cells (PSCs), glial cell at the NMJ, remains unknown. PSCs influence synaptic efficacy, structural stability and integrity and repair of the NMJ. Interestingly, these roles are complementary and muscarinic receptor (mAChR) activation represents a central element for appropriate PSC responses. In particular, PSCs muscarinic signaling must be reduced for NMJ morphological plasticity and repair to occur. We tested whether PSC properties are not compatible with NMJ plasticity and repair and that restoring PSCs activity would rescue NMJ structure and function.

We used soleus nerve-muscle preparations of a mouse model of ALS carrying the SOD1G37R human mutation. We combined morphological and physiological approaches to determine the properties and activity of the synaptic and glial components at the NMJ. We observed that the PSCs muscarinic signaling is enhanced in a SOD1 mouse model, suggesting that their contribution to NMJ repair and remodelling in ALS would be impaired. To test this possibility, we performed chronic in vivo blockade of PSC mAChRs (using fluorescent pirenzepine, flPir) and examine whether NMJ repair was restored. Muscarinic activation of PSCs was reduced by the in vivo treatment although synaptic properties remained unaffected. Importantly, reduction of PSCs mAChRs activity restored their ability to repair and maintain NMJs structural integrity as indicated by the increased PSCs process extensions, sprouting events of the presynaptic terminals and poly-innervated NMJs.

These results suggest that reducing PSCs mAChRs activation could be beneficial in a context of ALS. This intrinsic PSC property could represent an important and novel therapeutic target in ALS.

Marie-Ève Tremblay, Centre Hospitalier de l'Université Laval

Microglia-synapse interactions in health and disease

A series of discoveries spanning the last decade has challenged our view of microglia, the brain's immune cells, showing their essential but previously unexpected contribution to the experience-dependent remodeling of neuronal circuits. My research program aims to determine how this newly-defined fundamental mechanism could be implicated in the loss of synapses that best correlates with the impairment of learning and memory across chronic stress, depression, schizophrenia, aging, and Alzheimer's disease. In my presentation, I will discuss about an ultrastructurally distinct microglial phenotype that is predominantly associated with pathological states. These cells are rare under steady-state condition, but become prevalent upon chronic stress, aging, or Alzheimer's disease pathology. They exhibit several signs of oxidative stress including a condensed, electron-dense cytoplasm and nucleoplasm giving them a 'dark' appearance, accompanied by endoplasmic reticulum dilation, mitochondrial disruption, and nuclear heterochromatin remodeling. Dark microglia appear extremely active at synapses, even more than the normal microglia, suggesting their implication in the pathological/traumatic remodeling of neuronal circuits, through synaptic stripping, extracellular digestion, or phagocytosis.

Grant Gordon, University of Calgary

Behavioral State Dependence of Cortical Astrocyte Ca2+ Signals During Neurovascular Coupling

PV cell function relies on their pattern of connectivity: they innervate hundreds of postsynaptic targets with multiple synapses clustered around the cell body and proximal dendrites. The establishment of mature innervation by a single PV cell requires several steps, from finding the right cell target and selecting the appropriate subcellular location for synapse localization, to synapse proliferation and refinement. Here, I will discuss some of our recent findings regarding the molecular mechanisms regulating the timing of maturation of PV cell connectivity in the postnatal rodent cortex.

Featured Plenary speaker

Dwight Bergles, Johns Hopkins University

Multi-scale analysis of astrocyte activity in the mammalian brain

Understanding how information processing in neural circuits is influenced by brain state requires in vivo assessments of population activity during different behaviors. To define the mechanisms responsible for activating astrocyte networks in the adult brain, we developed conditional GCaMP mouse lines and performed in vivo two photon imaging in awake animals. Our studies indicate that there are two functionally distinct, but interdependent modes of calcium signaling in astrocytes – one based on activation of metabotropic receptors and another that is intrinsically generated. I will describe the contexts in which these modes of signaling occur and the mechanisms responsible.

Keynote Lecture

Charles Bourque, McGill University

Control of body hydration by heat, salt and circadian time

Understanding how information processing in neural circuits is influenced by brain state requires in vivo assessments of population activity during different behaviors. To define the mechanisms responsible for activating astrocyte networks in the adult brain, we developed conditional GCaMP mouse lines and performed in vivo two photon imaging in awake animals. Our studies indicate that there are two functionally distinct, but interdependent modes of calcium signaling in astrocytes – one based on activation of metabotropic receptors and another that is intrinsically generated. I will describe the contexts in which these modes of signaling occur and the mechanisms responsible.

WEDNESDAY, MAY 31, 2017

Plenary Symposium 3

Memory & Cognition

Chair:
Paul Frankland, University of Toronto

Speakers:
Kari Hoffman, York University

Multiple roles of the primate hippocampus in visual exploration

The hippocampus plays a role in memory across various species, though species differences appear on closer examination of the tasks and neuronal correlates. I will describe hippocampal activity during learning and memory in primates as contrasted with better-established correlates in rodent models. Using this comparative lens, I will revisit the role of the hippocampus in navigation and in memory, presenting new results from memory-guided visual exploration and during wireless recordings in freely-behaving macaques

Katherine Duncan, University of Toronto

Memory States in the Human Brain and Behaviour

The key characteristic distinguishing memory from other cognitive processes is that memory's ultimate success depends on multiple phases: encoding new memory traces; storing and consolidating those traces; and retrieving the stored content. The distinct, and potentially incompatible, demands of each phase may present challenges for specialized memory systems like the hippocampus. One way that the hippocampus has been proposed to overcome these challenges is by dynamically shifting its processing to favour memory encoding in novel contexts and retrieval in familiar ones. Our research has explored this possibility, identifying evidence for hippocampal processing shifts in humans. Using fMRI, we have characterized how the hippocampus detects novelty and how novelty detection can shift connectivity along hippocampal pathways. We have also used this hippocampal framework to make new predictions about how novelty and familiarity shape memory behaviour. Specifically, drawing on the time-course of hippocampal cholinergic modulation, we have identified that recent exposure to novelty elicits a memory state that facilitates the formation of distinct memories, whereas recent exposure to familiarity facilitates the reactivation of other, unrelated associations. Together, this work highlights that memory success can depend on the state of hippocampal processing, in turn influenced strongly by the context in which the memory is made and, later, retrieved.

Paul Frankland, University of Toronto

Identification and interrogation of a fear memory network

Long-term memories are thought to depend upon the coordinated activation of a broad network of cortical and subcortical brain regions, but within this distributed network some regions may play more important roles than others during consolidation. Previously, we used a global mapping approach to identify networks of brain regions activated following recall of long-term fear memories in mice (Wheeler et al [2013] PLoS Comp Biol). Expression analysis of the activity-regulated gene, c-fos, across 84 brain regions allowed us to identify regions that were co-active following memory recall, and presumably form a network that is engaged by long-term memory recall. Graph theoretical analysis of this network indicated that the memory network had small-world properties, and included several highly-connected hub-like regions that may play privileged roles in memory expression. Using pharmacogenetic neuronal silencing strategies, here we test the hypothesis that these hub regions play disproportionately important roles in the consolidation of long-term contextual fear memories. To do this we virally expressed the inhibitory designer receptor exclusively activated by designer drugs (DREADD) HM4Di in different hub and non-hub regions in the memory network. DREADDs are insensitive to endogenous ligands but activated by a synthetic ligand clozapine-N-oxide (CNO). When bound to CNO, this Gi-coupled DREADD induces membrane hyperpolarization and inhibition of spiking activity. Following contextual fear conditioning training, CNO or vehicle was administered via drinking water for 14 days and then contextual fear memory was tested. We found that inhibition of several cortical and subcortical hub regions disrupted consolidation of the contextual fear memory. In contrast, our data indicate that similar inhibition of non-hub regions in the memory network had no effect. These data support the idea that highly-connected hub regions play a disproportionately important role in the consolidation of contextual fear memories.

Featured Plenary speaker

SickKids®

Tim Bussey, Western University

How is memory organized? Memory Systems versus the Representational-Hierarchical View

The predominant paradigm in cognitive and behavioural neuroscience assumes that the brain is organized into processing modules specialised for particular psychological functions. With respect to memory, the textbook view is that different systems are specialised for processing underlying specific types of memory. For example, there is thought to be a memory system localised in the medial temporal that is specialised for declarative (explicit) memory. Structures in the ventral visual stream, on the other hand, are important for other functions such as perceptual discrimination, categorization, etc — the so-called "perceptual representation system". In my talk I will describe, and provide evidence for, an alternative framework – the Representational-Hierarchical View, which suggests that instead of labeling different areas of the brain as being important for different types of memory processing, it may be more useful to think in terms of content, i.e., the specific representations that different regions maintain, and specifically how higher-level representations disambiguate behaviourally ambiguous lower-level representations. This view can account for everything the memory system view can account for -- and much that it can't.

PARALLEL SYMPOSIA

Please note: the individual abstracts of all symposium presentations listed below are available on the CAN Conference App, and on the CAN-ACN website.

If you haven't already downloaded the conference app, you can scan the QR code at the registration desk.

MONDAY, MAY 29, 2017

SYMPOSIUM 1 *Sleep mechanisms and functions*

Chair:
Valérie Mongrain, Université de Montréal

Overview:
Sleep is an essential behavior regulated by complex interactions at the molecular, cellular and circuit levels. Recent technological advances in neuroscience have allowed an increasingly precise understanding of how these different levels contribute to the regulation of sleep and wakefulness and to the generation of brain rhythmic activity during the different behavioral states. The first two talks of the symposium will detail newly identified contributions of specific neuronal circuits in the control of arousal and of the different stages of sleep. In addition, behavioral state determines how the brain processes and stores information, and sleep loss impacts a variety of brain functions through intricate molecular mechanisms. The last two presentations of the symposium will be presenting, for different brain regions, how networks are impacted by sleep loss to modulate neuronal functions.

Speakers:

John Peever, University of Toronto
Circuits controlling REM sleep in health and disease

Barbara E Jones, McGill University
Arousal systems and their regulation by sleep

Emma O'Callaghan, Université de Montréal
Contribution of circadian components to sleep homeostasis

Robbert Havekes, University of Groningen, The Netherlands
The tired hippocampus: insight into the molecular origins of hippocampal memory deficits associated with sleep loss

SYMPOSIUM 2 *Critical Mediators of Pain: Uncovering Novel Therapeutic Targets*

Chair:
Michael Hildebrand, Carleton University

Overview:
Chronic pain is a major public health challenge that affects one in five Canadians and is often severe, debilitating and exceedingly difficult to treat. Current treatments provide moderate pain relief and have many side effects, as exemplified by the tolerance and withdrawal associated with opioids. Thus, there is an urgent need to identify therapeutic targets based on new mechanisms. The spinal cord and intervertebral discs in the spine are potential sites of action for new therapeutic approaches, and spinal neuroplasticity and intervertebral disc degeneration are both associated with chronic pain. This session will highlight current research aimed at identifying the molecular players in spinal hyperexcitability and in intervertebral disc degeneration. We will discuss the roles of specific receptors, channels, intracellular signaling pathways, and epigenetic mechanisms in mediating pathological plasticity and degeneration. Based on evidence from ex vivo assays, rodent models of pathological pain and human pain conditions, we will discuss how targeting these diverse mechanisms reverses pain-related pathologies ranging from opioid tolerance to neuropathic and low back pain.

Speakers:

Daniela Salvemini, Saint Louis University School of Medicine
Deregulation of adenosine signaling at the A3 adenosine receptor subtype drives chronic neuropathic pain states - new insights in a novel therapeutic target

Michael Hildebrand, Carleton University
Molecular determinants of dorsal horn hyperexcitability in pathological pain processing

Laura Stone, McGill University
Preventing pain at the source: targeting intervertebral disc degeneration as a therapeutic strategy for low back pain

SYMPOSIUM 3 *Control of locomotor activity: from the cortex to the spinal cord*

Chair:
Simon Gosgnach, University of Alberta

Overview:
Locomotion is an essential motor act which is characterized by the rhythmic alternation of muscles on the left and right sides of the body. This rhythmic activity is generated by a neural circuit located in the spinal cord (the locomotor CPG) which receives inputs from the cortex and the periphery in order to tailor its activity to accommodate environmental cues. Recently, much has been learned about component interneurons of the locomotor CPG, however we still know little regarding the manner in which sensory and descending input interface with it, and fine tune its output. In this symposium we will discuss new findings regarding the connectivity of genetically defined interneuronal components of the locomotor CPG, and the manner in which activity of these interneurons is modulated by sensory afferents. We will also discuss how cortical and subcortical areas are involved in the planning and modulation of locomotor activity based on sensorimotor cues. The overarching goal of this symposium is to begin to unravel the complex connectivity between components of the CNS that interface with the locomotor CPG and enable purposeful, goal directed locomotion to be generated.

Speakers:

Trevor Drew, Université de Montréal
Walking 101 : What the brain tells the spinal cord

Alain Frigon, Université de Sherbrooke
The control of left-right coordination during locomotion by spinal circuits interacting with somatosensory feedback

Ying Zhang, Dalhousie University
The local circuits of V3 interneurons in the spinal cord

Patrick Whelan, University of Calgary
Parallel dopaminergic pathways controlling locomotion in the mouse

SYMPOSIUM 4 *Genetic and Optogenetic Investigation of Neural Circuit Mechanisms for Behaviours*

Chair:
Mei Zhen, Lunenfeld-Tanenbaum Research Institute

Overview:
An ultimate goal of neuroscience is to understand the neural basis for animal behaviors. Only through a comparison of the organization and operation of neural circuits from multiple systems can fundamental principles underlying signal processing in the nervous system be extracted. In this symposium, we bring together junior and mid-career researchers who combine optogenetic and genetic approaches to study circuit mechanisms that underlie sensorimotor and cognitive behaviors in invertebrate (C. elegans and Drosophila) and vertebrate (mouse) models. Through these talks we will introduce state-of-art technology and the latest breakthroughs in dissecting the cellular mechanisms for animal behaviors in different model systems. Further, we aim to stimulate discussion on the diversity and conservation of circuit basis for animal behaviors.

Speakers:

Kenichi Okamoto, Lunenfeld-Tanenbaum Research Institute

Novel optogenetic approaches for studying spatiotemporal roles of cAMP and cGMP signalling from the synapse level to the brain cognitive function

Michael Gordon, University of British Columbia

Neural circuit mechanisms for integrating taste, hunger, and nutrient detection in Drosophila

Tomoko Oyama, McGill University

Multilevel multimodal integration enhances action selection in Drosophila

Michael Hendricks, McGill University

Functional asymmetry for temporal stimulus features in C. elegans

SYMPOSIUM 5 *Memory symphony: the score, the orchestra and the conductor*

Chair:

Lisa Topolnik, Université Laval

Overview:

Every important event and every significant life episode is imprinted in our brain through memory traces. The brain?s amazing capacity to store the most essential information about our life, the so-called contextual memory, is encoded and stored through a concerted dialogue of several brain structures, including the hippocampal and rhinal cortices. It is believed that hippocampal circuitry together with the entorhinal cortex, subiculum and the medial septum take a central place in the brain cognitive map and constitute the memory orchestra. What is the symphony played by this orchestra? Who writes the score and who is the conductor? This mini-symposium will attempt to answer these questions by highlighting several recent breakthroughs in the field of memory circuits that became possible due to ingenious combinations of multiple technologies in awake behaving rodents, including multi-site electrophysiology, optogenetics, miniaturized microscope and two-photon imaging. This symposium will bring together four outstanding scientists at different stages in their career to present novel findings on spatial and episodic memory encoding through multi-level circuit interactions.

Speakers:

Mark Brandon, Douglas Mental Health University Institute McGill University

Space and time in the entorhinal-hippocampal circuit in health and Alzheimer's disease

Attila Losonczy, Mortimer B. Zuckerman Mind Brain Behavior Institute Kavli Institute for Brain Science, Columbia University

Dissecting hippocampal circuits for navigation and memory

Lisa Topolnik, Université Laval

VIP members of the hippocampus

Sylvain Williams, Douglas Mental Health University Institute McGill University

Optogenetic manipulation and visualization of neuronal assemblies during memory formation

SYMPOSIUM 6: *Mitochondria as a therapeutic target in Parkinson's disease*

Chair:

Louis-Eric Trudeau, Université de Montréal

Overview:

Mitochondria are at a central position in the pathophysiology of Parkinson's disease (PD). A number of key PD-related genes encode proteins that regulate mitochondrial function, turnover and even antigen presentation. The present symposium will present recent data evaluating the possibility that elevated basal mitochondrial bioenergetics may be at the origin of the high vulnerability of key subsets of neurons in the PD brain and that targetting mitochondrial function to facilitate energy production while reducing oxydative stress may represent a viable therapeutic approach. Louis-Eric Trudeau will present work demonstrating that the particular morphological properties of vulnerable neurons in PD are at the origin of their high energy requirements and vulnerability. Joanne Nash will demonstrate that upregulation of the mitochondrial deacetylase SIRT3 can protect dopamine neurons in a rat PD model. Ruth Slack will discuss how mitochondria can be reconfigured to enhance their bioenergetics capacity. David Park will discuss the role of Pink1 in regulating the putative mitochondrial C2 /H exchanger Letm1 in regulating neuronal survival.

Speakers:
Louis-Eric Trudeau, Université de Montréal
Is increased basal bioenergetics a common property of vulnerable neuronal populations in Parkinson's disease?
Joanne Nash, University of Toronto
SIRT3 rescues dopaminergic neurons through stabilisation of mitochondrial biogenetics in a rat model of parkinsonism
Ruth Slack, University of Ottawa
Mitochondrial restructuring to enhance ATP production and resistance to stress.
David Park, University of Ottawa
Letm1 as a substrate of the Parkinson's disease gene pink1.

SYMPOSIUM 7 *Emerging roles of the cerebellum in shaping brain development and disease*

Chair:
Lu-Yang Wang & Alanna Watt, SickKids Research Institute & Hospital, McGill University

Overview:
The cerebellum is classically associated with motor functions, but recent human and animal studies point to crucial roles in higher-order brain functions. This symposium will bring together scientists from across Canada and the States who have made outstanding contributions to the development and function of the cerebellum in health and disease, including cerebellar ataxia, autism spectrum disorders (ASD), and Fragile X Syndrome (FXS). They will discuss their exciting and largely unpublished research spanning a diverse range of approaches, from the genetics of development (Dan Goldowitz), the molecular and cellular mechanisms of synaptic transmission and plasticity (Derek Bowie & Amy Yang) and the cellular rescue of pathological motor phenotypes (Alanna Watt). This wide spectrum of research topics exemplifies the depth and breadth of basic neurobiological research and translational potentials propelled by advanced genetic and protein perturbation tools, behavioural assays, and cutting-edge in vitro and in vivo electrophysiological and imaging technologies.

Speakers:
Dan Goldowitz, University of British Columbia and BC Children's Hospital Research Institute
Exploring novel and familiar genes involved in cerebellar development
Yi-Mei (Amy) Yang, University of Minnesota & SickKids Research Institute
Molecular underpinnings of excessive inhibition in cerebellum with Autism Spectrum Disorder
Derek Bowie, McGill University
Defective excitatory and inhibitory circuits of the Fragile-X brain
Alanna Watt, McGill University
Altered Purkinje cell output underlies disease pathophysiology in ataxia

SYMPOSIUM 8 *Stroke Recovery: From circuitry to behaviour*

Chair:
Diane Lagace, University of Ottawa

Overview:
In Canada, over 400,000 stroke survivors live with the after effects of stroke making it the leading cause of functional disability. In order to develop game-changing interventions to improve recovery for survivors, there is an urgent need to better understand the biology of stroke recovery from a neuronal, vascular and behavioral perspective. Dr. Lacoste, will begin the session by presenting data on the dynamic changes within the neuro-vascular unit and how this can be modified therapeutically. Dr. Murphy will then provide insights on the modification to synapses and sensorimotor circuits that occur in live mice during stroke recovery. Then, Dr. Lagace will present her data on whether neurogenesis is required or sufficient to produce improvements in stroke recovery. Finally, Dr. Corbett will close the session by describing the proportional recovery hypothesis in stroke recovery and its implications in clinical and basic research.

Speakers:
Baptiste Lacoste, Ottawa Hospital Research Institute
Assessing Pathological Cerebrovascular Remodeling
Tim Murphy, University of British Columbia
Automated Mesoscale Circuit and Motor Function Assessment in Mouse Models of Stroke
Diane Lagace, University of Ottawa
Neurogenesis and Stroke Recovery
Dale Corbett, University of Ottawa
Stroke Recovery: Does Rehabilitation Matter?

SYMPOSIUM 9 *Epigenetics, DNA Methylation, and Mental Health*

Chair:
Mojgan Rastegar, University of Manitoba

Overview:
Epigenetics control gene expression through mechanisms that are not directly reflected by the underlying DNA sequences. These include different types of DNA methylation, histone post-translational modifications, and chromatin structure, among others. Recent discoveries have highlighted the importance of epigenetics and neuroepigenetics in the brain development, function, neuroscience, and mental disability. This proposed parallel symposium is an exciting gathering of four neuroepigenetic experts in Canada whose research is directly linked to neuroscience and mental health. Each speaker will present a topic related to epigenetics/DNA methylation and the impact in neuroscience and mental health. Juan Ausio (U. Victoria): Functional aspects of native and mutant MeCP2 biology Nathalie Berube (Western University): Chromatin organization in the developing brain Patrick McGowan (U. Toronto): The impact of adversity on the DNA methylome Mojgan Rastegar (U. Manitoba): A multi-level epigenetic deregulation in the brain of Rett Syndrome patients This symposium will cover exciting recent discoveries in epigenetics that impact in neuroscience and mental health.

Speakers:
Mojgan Rastegar, University of Manitoba
A multi-level epigenetic deregulation in the brain of Rett Syndrome patients
Nathalie Berube, Western University
Chromatin organization in the developing brain
Patrick McGowan, University of Toronto
The impact of adversity on the DNA methylome
James Davie, University of Manitoba
DNA Methylation and FASD

SYMPOSIUM 10 *New Insights into Reconsolidation*

Chair:
Karim Nader, McGill University

Overview:
This proposed symposium will showcase four leading researchers in the field of memory reconsolidation and neuroplasticity. Prof. Kida will discuss Forgetting & Neurogenesis. In his talk, he will demonstrate that Forgetting of a recent fear memory is promoted by treatment with memantine, which increases hippocampal neurogenesis. Prof. Kaang?s talk unveils the yet-unappreciated importance of gene repression mechanisms for memory formation. Prof. Cammarota will discuss data that describes the neurobiological conditions required for memory de-stabilizization. In her talk, Prof. Kindt will showcase the application of reconsolidation blockade in clinical settings. She will demonstrate how reconsolidation blockage is is an effective treatment of animal phobias (i.e., spider). The presenters are renowned international neuroscientists, including a woman scientist. Prof. Kida presented at CAN two years ago; we hope this will not disqualify his participation in this symposium. I hope that the CAN organizers would make an exception in Prof. Kida?s case given that I believe this symposium with four renown international neuroscientists provides great educational value for our students.

Speakers:
Karim Nadir, McGill University
Recovery from Amnesia is Fool's Gold; specific impairments in consolidation, reconsolidation and long-term memory maintenance lead to memory erasure
BK Kaang, Seoul National University
Multiple repressive mechanisms in the hippocampus during memory formation
Martin Cammarota, Brain Institute – Federal University of Rio Grande do Norte
How to break the constraints on reconsolidation
Merel Kindt, University of Amsterdam
An Abrupt Transformation of Phobic Behavior After a Post-Retrieval Amnesic Agent

SYMPOSIUM 11 *Estrogen's effect on cognition and the brain: A translational perspective*

Chair:
Gillian Einstein, University of Toronto

Overview:
Estrogens Effects on Cognition and the Brain: A translational perspective Hormones play a fundamental role in shaping brain function. A large body of evidence across species indicates that 17-beta-estradiol (E2) modulates cognition and brain function in key regions involved in mnemomic processing, e.g. hippocampus, perirhinal, and prefrontal cortex. Importantly, E2 affects these regions across age and reproductive stage. This symposium will take a translational approach to delineating E2's role in learning and memory. Dr. Galea will present her work on estrogens, cognition and neurogenesis in rat hippocampus. Dr. Gervais will present her work on recognition memory in female rats and women with prophylactic bilateral oophorectomy prior to natural menopause. Dr. Morrison will present findings from his studies on prefrontal dependent cognition in female macaques with OVX prior to natural menopause. Dr. Hampson will discuss her research showing E2's effects on frontal cortical memory in peri- and menopausal women. Dr. Gillian Einstein will co-chair with Dr. Annie Duchesne.

Speakers:
Gillian Einstein, University of Toronto
Estrogen's effect on cognition and the brain: A translational perspective
Nicole Gervais, University of Toronto
Impact of ovarian hormones on recognition memory and perirhinal cortex in rats and humans
Agnès Lacreuse, University of Massachusetts
Neurocognitive effects of estrogens in female non-human primates across the adult lifespan
Elizabeth Hampson, Western University
Estrogen's Effects on Frontocortical Memory in Peri- and Postmenopausal Women

SYMPOSIUM 12 *Mechanisms of Neuronal Migration and Regeneration*

Chair:
Claire Benard, UQAM / UMass Medical School

Overview:
Proper wiring of neuronal circuits relies on the guidance of migrating neurons and processes during development, and after their initial assembly, the integrity of neuronal circuits needs to persist throughout life. Studies using the complementary model organisms Caenorhabditis elegans and mice, have been key in elucidating conserved pathways regulating neuronal development, maintenance and regeneration. In this Parallel Symposium, four complementary talks will feature key advances in understanding of the regulation of neuronal migrations, the maintenance of neuronal architecture and axon regeneration in the nematode and mice. Dr. Pilon will report on migrations of the enteric nervous system in mice, Dr. Bénard will discuss the role of proteoglycans in regulating axon guidance and maintenance in C. elegans, Dr. Kennedy will talk on the role of glycosaminoglycans and netrin in guidance in mice, and Dr. Byrne will present her research on axon regeneration in C. elegans.

Speakers:

Nicolas Pilon, UQAM

Fam172a is critically required for neural crest cell migration and proliferation

Claire Bénard, UQAM / UMass Medical School

Extracellular modulators of axonal guidance and long-term neuronal protection

Timothy Kennedy, McGill University / MNI

Netrin-1 and GAG Function in CNS Perineuronal Nets

Alexandra Byrne, UMass Medical School

Poly(ADP-Ribosylation) Regulates Axon Regeneration

Notes

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ANT North America Inc. *T 08.5*

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Blackrock Microsystems *T 13*

Blackrock Microsystems is a privately held company that provides enabling tools for the neuroscience, neural engineering and neuroprosthetics research and clinical community worldwide. The Blackrock team backs up your project from start to finish so you ultimately can publish faster. All our solutions provide high-quality, reliable data because they are precisely tailored to your project needs and fully integrated. Blackrock systems are known for their user-friendliness and intuitive, plug-and-play experience. Such ease of use and reliability have come about in part because we offer the largest portfolio of FDA and CE approved products.

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Brain Vision Solutions *Booth 11*

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The Canadian Neurophotonics Platform *T 17*

The Canadian Neurophotonics Platform is a technology platform that drives development of leading-edge photonics technologies for the study, diagnostics and treatment of brain diseases. Neurophotnics enables the investigation of neural circuits in a non-destructive manner, using light to activate, repress or simply detect activity in living tissues. The Neurophotonics Platform brings together the complementary expertise of leading Canadian chemists, physicists, neurobiologist and computational modelers who work in collaboration to develop and test novel neurophotonics tools and technologies. This close collaboration generates a rapid feedback loop for development of novel tools.

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Web *www.neurophotonics.ca/canadian-neurophotonics-platform*

Centre for Drug Research and Development *Booth 13*

The Centre for Drug Research and Development (CDRD) is Canada?s national drug development and commercialization centre working in partnership with academia, industry, government and foundations. We provide the specialized expertise and infrastructure to identify, validate and advance promising discoveries, and transform them into commercially viable investment opportunities for the private sector ? and ultimately into new therapies for patients. Canada?s Networks of Centres of Excellence Program has recognized CDRD as a Centre of Excellence for Commercialization and Research (CECR). For more information, visit www.cdrd.ca and @C_D_R_D.

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CIHR Instutute of Neurosciences, Mental Health and Addicton *Booth 13*

The CIHR Institute of Neurosciences, Mental Health and Addiction (CIHR-INMHA) fosters research into the functioning and disorders of the brain and the mind, the spinal cord, the sensory and motor systems and mental health, mental illness and all forms of addiction. CIHR-INMHA aims to translate new knowledge into improved health outcomes and quality of life for all Canadians.

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Clever Sys Inc. *T 05.5*

Located in Reston, Virginia, outside Washington, D.C., and along the Northern Virginia technology corridor, Clever Sys Inc. (CSI) is a bioinformatics company specializing in advanced video tracking software for behavioral research. Clever Sys brings behavioral testing into the twenty-first century, combining video tracking with patented Behavior Recognition Technology for the most advanced behavior analysis software on the market today. The applications of our behavior recognition technology are broad, and CSI?s customers include biotech and medical researchers (government, academic, and private), pharmaceutical companies, law enforcement, military, homeland security offices, athletic train.

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Convergence *T 15*

Convergence, Perceptions of Neuroscience, is an independent initiative supported by the Brain Repair and Integrative Neuroscience (BRaIN) Program of the MUHC, Concordia University Faculty of Fine Arts (FOFA),the Canadian Association for Neuroscience (CAN/ACN), and the Montreal General Hospital Foundation. Our primary goal is to make neuroscience research accessible to a general audience by linking it to the arts. Convergence is based on the collaborative work between neuroscientists on early steps of their careers, and fine arts students of advanced cycles. That collaboration seeks to benefit neuroscience students by providing them with an opportunity for learning and acquire a broad perspective from non-neuroscientists meanwhile they get to communicate their research in a rich new language without the complex technicalities of their research. From the fine arts side, we look to provide students with an entirely new source of inspiration meanwhile we familiarize them with the work of the scientific community. The program counts at the moment with 16 neuroscientists, 12 labs, and 28 fine arts students representing 14 different art disciplines. The final product of our initiative for this cycle is a collaborative exhibition at the 11th Annual Meeting of the Canadian Association for Neuroscience to be held in Montreal from May 27th-31st, 2017. This exhibition will be held at La Bibliothèque et Archives Nationales du Québec (BAnQ), and the Bonaventure Hotel. This initiative seeks to put down stereotypes and give to everybody involve the opportunity to learn to think out of the box and collaborate with people with different ideas and points of view.

For more information on this initiative, please visit their website: *www.convergenceinitiative.org*

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g.tec medical engineering GmbH

Booth 5

Founded in 1999, g.tec medical engineering GmbH is a leading manufacturer of bio-signal acquisition systems, especially in the field of Brain Computer Interfaces (BCI). g.tec products have been sold to the world's leading universities, hospitals and research facilities in more than 60 countries.

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GALLERIESherrington *T 02*

Amanda Sherrington is a graduate architecture student, as well as an artist and partner of GALLERIESherrington, mesmerized by the intricate complexity of neuroscience art. Amanda's experiences as an architectural historian and photographer have led her to a particular interest in the representation of organic yet systematic streetscapes and landscapes that has influenced her visual representations of neurons and networks in the brain.

Email *galleriesherrington@gmail.com*
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Harvard Apparatus Canada

Booth 18

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Huron Digital Pathology *Booth 20*

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T 09

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Mightex Systems *Booth 3*

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Neuralynx, Inc. *Booth 6*

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Neurobilogy Graduate Programme, Universite Laval *T 08*

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Neurocraft *T 03*

presented by the

Manitoba Neuroscience Network

and the

Manitoba Craft Council

Neurocraft is an exhibition of neuroscience-themed art pieces that have been produced through a collaboration between the Manitoba Neuroscience Network and the Manitoba Craft Council. Neurocraft will be on view at Montreal?s Visual Voice Gallery from May 27th to June 24th, and several pieces from the exhibition will also be on display at the CAN annual meeting. Please visit our booth to learn more about the exhibition and the artists. We also invite all CAN members to an exclusive Neurocraft reception, which will be held Tuesday, May 30th, from 7:30-10 pm at the Visual Voice Gallery (Belgo Building, Space 421, 372 Rue Sainte-Catherine Ouest).

Email *Sari.Hannila@umanitoba.ca*
Web *manitobacraft.ca/2017/02/neurocraft/*

Neurological Health Charities Canada *T 14*

Neurological Health Charities Canada (NHCC) is a coalition of organizations that represent people with brain diseases, disorders and injuries in Canada. NHCC provides leadership in evaluating and advancing new opportunities for collaboration specific to advocacy, education and research to improve the quality of life for people affected by brain conditions.

Email *deanna.groetzinger@mybrainmatters.ca*
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Neurotar *Booth 21*

Neurotar Oy Ltd develops research devices that help neuroscientists to eliminate the effects of anaesthetics on brain function. Our proprietary Mobile HomeCage devices make it possible to perform high precision tests (such as in vivo two-photon imaging, in vivo patch clamp, and optogenetics) in awake, head-fixed but otherwise freely moving rodents, and to combine such tests with behavioural read-outs. Other applications include intrinsic optical imaging, microdialysis, and voltammetry. In our second line of business as a contract research organisation, we use the Mobile HomeCage for service provision to the pharmaceutical industry. Neurotar operates from Helsinki, Finland, since 2009.

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Booth 9

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T 04

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T 05

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Poster Sessions

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10:15 – 10:45 & 3:00 – 5:30

Session 2: **Tuesday, May 30**
10:15 – 10:45 & 3:00 – 5:30

Session 3: **Wednesday, May 31**
10:15 – 10:45 & 3:00 – 5:30

The poster board numbers work in the following way:
Session – Theme – Board number (e.g 1-A-1)

Location of individual poster boards indicated on poster board floor plans at the back of the program.

All abstracts are available to view online at can-acn.org, or on the CAN App – scan the QR code to download the app or search for 'Podium Conferences' in the App Store.

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- **A** **Development**
- **B** **Neural Excitability, Synapses, and Glia: Cellular Mechanisms**
- **C** **Disorders of the Nervous System**
- **D** **Sensory and Motor Systems**
- **E** **Homeostatic and Neuroendocrine Systems**
- **F** **Cognition and Behavior**
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- **H** **History, Teaching, Public Awareness and Societal Impacts in Neuroscience**
- **IBRO** **International Brain Research Organization**

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Mohammad Hassan Afzali[1], Maeve O'Leary Barrett[1], Lea Noirhomme[1], Sira Maiga[1], Sherry Stewart[2], Robert Pihl[3], Jean Seguin[1], Benoit Masse[1], Patricia Conrod[1]

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Aurelie Stil[1], Lucas Paladines[1], Pei Yun Tu[1], Jonathan Simard[1], Jean-Francois Bouchard[1]

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David Zheng[1], Marie-Andrée Akimenko[1], Tuan Bui[1]

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Loïc Cochard[1], Sandra Joppé[1], Louis-Charles Levros[1], Anne Aumont[1], Karl Fernandes[1]

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Rebecca van Ginkel[1], Brittany Stojak[1], Tammy Ivanco[1], Gregg Tomy[1], Mark Fry [1]

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Antoine Giraud[1], Marie-Julie Allard[1], Clémence Guiraut[1], Frédéric Roche[2], Mariela Segura[3], Hugues Patural[4], Guillaume Sébire[1]

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1-A -19 ***Developmental regulation of synaptic calcium dynamics in the prefrontal cortex.***

Philippe Vincent-Lamarre[1], Kevin Lee[2], Jean-Philippe Thivierge[1], Jean-Claude Béïque[1]

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Jean-Philippe Rousseau[1], Luana Tenorio-Lopes[1], Richard Kinkead[1]

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1-B -24 ***Inhibitory effects of dopamine on electrically coupled identified neurons***

Awsam Aziz[1], Neil Magoski[1]

[1]Queen's University

1-B -25 ***Mechanism of Pannexin Channel Mechanosensitivity***

Shubhamsingh Tanwar[1], Natalie Lavine[1], Michael Jackson[1]

[1]University of Manitoa

1-B -26 ***The stimulation of the shell part of the nucleus accumbens decreases sucrose intake in female rats***

Sandrine Chometton[1], Geneviève Guèvremont[1], Elena Timofeeva[1]

[1]IUCPQ-UL

1-B -27 ***Characterization of Substantia Gelatinosa Neurons in Defined Medium Organotypic Cultures from "Tamamaki" GAD67-GFP mice.***

Peter Smith[1], Paul Boakye[2], Emma Schmidt[2], Kerri Whitlock[2]

[1]Univ Alberta, [2]University of Alberta

1-B -29 ***Mice are different from rats; characteristics of neurons in the substantia gelatinosa of the dorsal horn of Tamamaki GAD67-GFP mice***

Paul Boakye[1], Vladimir Rancic[2], Klaus Balanyi[1], Peter Smith[1]

[1]UNIVERSITY OF ALBERTA, [2]Neuroscience

1-B -30 ***Constructing local field potential (LFP) models to decipher inhibitory cell type contributions during theta rhythms in CA1 hippocampus.***

Alexandra Chatzikalymniou[1], Frances Skinner[1]

[1]Krembil Research Institute

1-B -31 ***Role of kinase activity in modulation of inhibitory synaptic and extrasynaptic currents by neurosteroids***

Jaymin Jeong[1], Michael Poulter[1]

[1]University of Western Ontario

1-B -32 ***Voltage-Dependent Inhibition of Voltage-Gated Ca2+ Channels: Effects of Retinoid Signaling***

Eric de Hoog[1], Mark Lukewich[1], Gaynor Spencer[1]

[1]Brock University

1-B -33 ***Numerical and morphological changes of microglia in the striatum of parkinsonian monkeys***

Cynthia Lecours [1], Dave Gagnon[1], Léo Cantin[1], Martin Parent[1], Thérèse Di Paolo[1], Marie-Ève Tremblay [1]

[1]Laval University

1-B -34 ***Information transfer at synapses formed by hippocampal mossy fiber on CA3 GABAergic interneurons***

Maxime Houtekamer[1], Simon Chamberland[1], Katalin Toth[1]

[1]CRIUSMQ

1-B -35 ***The KChIP3 and ERK signaling pathway as components of the Cav3-Kv4 interaction***

Xiaoqin Zhan[1], Charmaine Szalay[1], Hadhi Asmara[1], Gerald Zamponi[1], Raymond Turner[1]

[1]University of Calgary

1-B -36 ***Spatial reference memory impairments are associated with abolished CA1 theta-gamma cross-frequency coupling in freely behaving J20 APP mice***

Guillaume Etter[1], Sylvain Williams[1]

[1]Douglas Mental Health Institute

1-B -37 ***The role of microglia in remodeling of neuronal circuits in response to chronic restraint stress***

Kanchan Bisht[1], Sami Piirainen[2], Isabelle Girard[1], Julie Savage[1], Li Tian[2], Marie-Ève Tremblay[1]

[1]Laval University, [2]Neuroscience Center, Viikinkaari 4, University of Helsinki,

1-B -38 ***Functional cortical connectivity principles revealed by single-cell-initiated circuit tracing with rabies viruses***

Stuart Trenholm[1], Adrian Wertz[1], Botond Roska[1]

[1]FMI

1-B -39 ***Postmortem characterization of cerebral vimentin expression and distribution in depressed suicides and healthy controls***

Liam O'Leary[1], Maria-Antonietta Davoli[1], John Kim[1], Naguib Mechawar[1]

[1]McGill University

1-B -40 ***Role of calpain in activity-dependent translocation of CaMKII to synapses during synaptic potentiation***

Kapil Sehgal[1], Charleen Salesse[1], Mado Lemieux[1], Paul De Koninck[1]

[1]Université Laval

1-B -41 ***Computational Modelling of AMPA receptors Trafficking at the Postsynaptic Density***

Anne-Sophie Sainte-Marie[1], Simon Hardy[1]

[1]Université Laval

1-B -42 ***Neural correlates for the habituation of the hypothalamic-pituitary-adrenal axis to repeated stress***

Sara Matovic[1], Xue-Fan Wang[2], Eric Salter[2], Aoi Ichiyama[1], Wataru Inoue[1]

[1]Robarts Research Institute, [2]Western University

1-B -43 ***Mouse model of Fragile X syndrome has deficient inhibitory GABAergic plasticity***

Erik Larson[1], Michael Accardi[1], Ying Wang[2], Benyamin Karimi[2], Rafael Varaschin[1], Tabrez Siddiqui[2], Derek Bowie[1]

[1]McGill, [2]University of Manitoba

1-B -44 ***Expression and localization of CB1R, NAPE-PLD, and FAAH in the nucleus accumbens of vervet monkeys***

Ryan Kucera[1], Joseph Bouskila[2], Laurent Elkrief[1], Anders Fink-Jensen[3], Roberta Palmour[2], Jean-François Bouchard[1], Maurice Ptito[1]

[1]Université de Montréal, [2]McGill University, [3]Psychiatric Centre Copenhagen

1-B -45 ***Local and Long-Range Control of Astrocytes by Neuron-Derived Sonic Hedgehog***

W. Todd Farmer[1], Sabrina Chierzi[1], Therése Abrahamsson[1], Jean-Francois Théroux[2], Gary G. Chen[2], Carl Ernst[2], Per Jesper Sjöström[1], Keith Murai[1]

[1]Research Institute of McGill University Health Centre, [2]McGill University

1-B -46 ***Astrocyte-derived ACBP/DBI activates the hypothalamic melanocortin pathway to regulate feeding and energy homeostasis.***

Khalil Bouyakdan[1], Chloé Chrétien[2], Alexandre Fisette[1], Demetra Rodaros[1], Fabienne Liénard[1], Eric Biron[3], Pénicaud Luc[2], Xavier Fioramonti[4], Thierry Alquier[1]

[1]CRCHUM, [2]Centre des Sciences du Goût et de l?Alimentation, [3]CRCHUQ, [4]University of Bordeaux

1-B -47 ***Long-term modulation of excitability by NMDA receptor signaling in cerebellar stellate cells***

Ryan Alexander[1], John Mitry[1], Vasu Sareen[1], Anmar Khadra[1], Derek Bowie[1]

[1]McGill University

1-B -48 ***Matching electrophysiology to morphology in somatostatin-positive oriens-lacunosum/moleculare (O-LM) hippocampal interneurons***

Vladislav Sekulic[1], Feng Yi[2], Tavita Garrett[3], John Lawrence[4], Frances Skinner[1]

[1]Krembil Research Institute/University of Toronto, [2]University of Montana, [3]Oregon Health and Science University, [4]Texas Tech University

1-B -49 ***Evidence of a synaptic vesicle binding site in the middle region of the C-terminal of presynaptic calcium channels***

Christine Snidal[1], Sabiha Gardezi[1], Brittany Elliott[1], Qi Li[1], Elise Stanley[1]

[1]Krembil Research Institute

1-B -50 ***Layer-specific calcium signalling and plasticity in dendrites of hippocampal fast-spiking interneurons***

Olivier Camiré[1], Lisa Topolnik[1]

[1]CRCHUQ - Universite Laval

1-B -51 ***Mitochondrial Trafficking and Function in Cortical Astrocytes***

J. Benjamin Kacerovsky[1], Keith Murai[1]

[1]McGill University

1-B -52 ***The cytokine IL-27 shapes the properties of human astrocytes in the context of multiple sclerosis***

Florent Lemaitre[1], Vincent Sénécal[1], Diane Bauseigle[1], Elie Haddad[2], Nathalie Arbour[1]

[1]CRCHUM, [2]Hôpital Ste-Justine

1-B -53 ***Stress Hormone CORT Induced Neuroplasticity in the Ventral Tegmental Area***

Shuai Liu[1], Min Qiao[1], Stephanie Borgland[1]

[1]University of Calgary

1-B -54 ***Identifying Critical Regulators of Dense Core Vesicle Trafficking and Fusion at Drosophila***

Kiel Ormerod[1], Troy Littleton[1]

[1]Massachusetts Institute of Technology

1-B -55 ***BDNF plays a critical role in regulating GABAergic synapse function and morphology post-ischemic injury***

Zahra Thirouin[1], Raminder Gill[2], Shiva Tyagarajan[1], Anne McKinney[3]

[1]Institute of Pharmacology and Toxicology and member of the ZNZ program, University of Zurich, [2]McGill University, [3]Department of Pharmacology and Therapeutics, McGill University

1-B -56 ***Optical nanoscopy of the molecular mechanisms of neuronal development and plasticity***

Flavie Lavoie-Cardinal[1], Mado Lemieux[1], Paul De Koninck[1]

[1]Centre de recherche en santé mentale de Québec

1-B -57 ***The effect of anti-VEGF and the kinin/kallikrein system on retinal inflammation in a rat model of laser induced choroidal neovascularization***

Soumaya Hachana[1], Olivier Fontaine[1], Réjean Couture[1], Elvire Vaucher[1]

[1]Université de Montréal

1-B -58 ***Comparison of Adult Human and Rat Spinal Cord Neural Stem/Progenitor Behavior***

Ahmad Galuta[1], Catherine Smith[2], Krystal L.A. Walker[1], Suzan Chen[3], Diana Ghinda[2], Eve Tsai[2]

[1]University of Ottawa, [2]Ottawa Hospital, [3]Ottawa Hospital Research Institute

1-B -59 ***Fasting Induced Plasticity in Dopamine Neurons of the Ventral Tegmental Area***

Nathan Godfrey[1], Stephanie Borgland[1]

[1]University of Calgary

1-B -60 ***Dynamic features and plasticity of quantal glutamate release at single hippocampal CA1 synapses***

Cary Soares[1], Andre Longtin[1], Richard Naud[1], Jean-Claude Béïque[1]

[1]University of Ottawa

1-B -61 ***Pan-neurexin perturbation results in compromised synapse stability and a reduction in readily releasable synaptic vesicle pool size***

Dylan Quinn[1], Annette Kolar[1], Michael Wigerius[1], Rachel Gomm-Kolisko[1], Hanine Atwi[1], James Fawcett[1], Stefan Krueger[1]

[1]Dalhousie University

1-B -62 ***Augmented stem cell potential in response to environmental enrichment is seen in juveniles but not adults***

Kathleen Chandler[1], Hosnia Dosso[1], Natalina Salmaso[1]

[1]Carleton University

1-B -63 ***Gap junctions regulate nociception and synaptic strength of afferent input to the spinal cord dorsal horn***

Yu-Feng Xie[1], Virginia Yini[1], Irene Lecker[1], Yves De Koninck[2], Robert Bonin[1]

[1]University of Toronto, [2]Laval University

1-B -64 ***Presenilin1 M146V mutation inhibits chemical LTP induced AMPA receptor trafficking in cultured hippocampal neurons***

Naoya Ueda[1], Nobuyuki Kimura[2], Michael Silverman[1]

[1]Simon Fraser University, [2]National Center for Geriatrics and Gerontology

1-B -65 ***Selective activation of large conductance calcium-activated potassium channels in dendritic spines from layer 5 pyramidal neurons***

Maxime Blanchard[1], Soledad Miranda-Rottmann[1], Bruno Navea-Pina[1], Alvaro Barrios[1], Roberto Araya[1]

[1]University of Montreal

C – Disorders of the Nervous System

1-C -66 ***Revealing microbiome-gut-brain interactions in opioid dependence***

Anna Taylor[1], Kevin Lee[1], David Nusbaum[1], Elaine Hsiao[1], Christopher Evans[1]

[1]University of California, Los Angeles

1-C -67 ***Neural compensation in the recovery of a saccade selection bias after unilateral stroke in macaques***

Ramina Adam[1], Kevin Johnston[1], Kelly Shen[2], Stefan Everling[1]

[1]University of Western Ontario, [2]Rotman Research Institute, Baycrest Centre

1-C -68 ***Chronic administration of pregabalin, a potential migraine therapy, alters hippocampal synaptic activity of severe familial hemiplegic migraine-1 mice***

Sascha Alles[1], Stuart Cain[1], Lucy Yang[1], Terrance Snutch[1]

[1]University of British Columbia

1-C -69 ***The pro-apoptotic role of Cited2 in stroke is functionally regulated by E2F1/E2F4***

Tianwen Huang[1], Yasmilde Rodriguez Gonzalez[2], En Huang[2], Dianbo Qu[2], Farzaneh Safarpour[2], Eugene Wang[2], Alvin Joselin[2], Doo-Soon Im[2], Steve Callaghan[2], Yi Zhang[2], Boonying Wassamon[2], Suzi Wang[2], Lisa Julian[2], Ruth Slack[2], David Park[2]

[1]Fujian Medical University, Union Hospital, [2]University of Ottawa, faculty of Medicine

1-C -71 ***Concussion disturbs default mode network oscillatory coupling across multiple frequency scales***

Benjamin Dunkley[1], Karolina Urban[2], Leodante Da Costa[3], Allison Bethune[3], Elizabeth Pang[1], Margot Taylor[1]

[1]The Hospital for Sick Children, [2]Holland-Bloorview Rehabilitation Hospital, [3]Sunnybrook Hospital

1-C -72 ***The expression of secretases enzymes in hippocampi of rats exposed to low doses of ozone***

Lucía Angélica Méndez García[1], Selva Rivas Arancibia[2]

[1]Universidad Nacional Autónoma de México, [2]Universidad Nacional Autonoma de Mexico

1-C -73 ***Mutations in the epileptic encephalopathy gene TRIO impair the prenatal and post-natal development of cortical GABAergic interneurons in mice***

Lara Eid[1], François Charron-Ligez[1], Felicia Hansson[2], Jean-David Larouche[1], Mathieu Lachance[2], Elsa Rossignol[1]

[1]CHU Sainte-Justine, Université de Montréal, [2]CHU Sainte-Justine

1-C -74 ***Neuroprotective effect of the FTY720 in a mouse model of Parkinson's disease***

Élise Pépin[1], Guillaume Lemieux[1], Geneviève Bureau[1], Guy Massicotte[1], Michel Cyr[1]

[1]Université du Québec à Trois-Rivières

1-C -75 ***Translational control of mood through phosphorylation of the eukaryotic initiation factor 4E***

Argel Aguilar Valles[1], Danilo de Gregorio[1], Nabila Haji[2], Edna Matta-Camacho[1], Ruifeng Cao[3], Arnaud Tanti[1], Shane Wiebe[1], Naguib Mechawar[1], Giamal Luheshi[1], Jean-Claude Lacaille[2], Gabriella Gobbi[1], Nahum Sonenberg[1]

[1]McGill University, [2]Universite de Montreal, [3]University of Minnesota Medical School, Duluth Campus

1-C -76 ***Microglial maturation and dysfunction in Huntington's disease***

Julie Savage[1], Marie-Kim St.-Pierre[1], Hassan El-Hajj[1], Maria Sanchez[1], Marie-Eve Tremblay[1]

[1]Université Laval

1-C -77 ***Cdc25A is a critical mediator of ischemic neuronal death***

Grace Iyirhiaro[1], DooSoon Im[1], Wassamon Boonying[1], Steve Callaghan[1], Matthew Druing[2], Ruth Slack[1], David Park[1]

[1]University of Ottawa, [2]Ohio State University

1-C -78 ***Post-synaptic adhesion molecule Neuroligin-1 has a novel biomarker in Alzheimer?s disease***

Julien Dufort-Gervais[1], Chloé Provost[2], Valérie Mongrain[1], Jonathan Brouillette[1]

[1]Université de Montréal, [2]Hopital du Sacré-Coeur de Montréal

1-C -79 ***Gene Regulation by Long Non-Coding RNAs in the Brain of Depressed Suicide Completers***

Yi (Daniel) Zhou[1], Pierre-Eric Lutz[1], Gustavo Turecki[2]

[1]McGill University , [2]McGill University

1-C -80 ***Strengthening Inhibition Can Rescue Neuronal Degeneration and Delay Motor Deficits in the ALS Mouse***

Sahara Khademullah[1], Zahra Dargaei[1], Melanie Woodin[1]

[1]University of Toronto

1-C -81 ***Characterization of recombinant human mitochondrial processing peptidase***

Andrew Bayne[1], Jean-Francois Trempe[1]

[1]McGill University

1-C -82 ***Collapsin Response Mediator Protein 4 (CRMP4) regulates neuronal regeneration and degeneration after peripheral nerve injury***

Marie-Pier Girouard[1], Mohamad Khazaei[1], Aaron Johnstone[1], Nicolas Unsain[1], Ricardo Sanz[1], Isabel Rambaldi[1], Philip Barker[1], Valerie Verge[2], Alyson Fournier[1]

[1]Montreal Neurological Institute, [2]Cameco MS Research Center

1-C -83 ***The neuroinflammatory process across the lifespan of Down Syndrome individuals***

Lisi Flores Aguilar[1], M. Florencia Iulita[2], Thomas Wisniewski[3], Jorge Busciglio[4], A. Claudio Cuello[1]

[1]McGill University, [2]Universite de Montreal, [3]New York University School of Medicine, [4]University of California

1-C -84 ***The regulation of NMDAR and mGluR5 by microRNA-128-3p with relevance to neurodegenerative disease.***

Amrit Boese[1], Aileen Patterson[2], Kathy Manguiat[2], Stephanie Booth[2]

[1]University of Manitoba/Public Health Agency of Canada, [2]Public Health Agency of Canada

1-C -85 ***IL-1 alpha delivery in the CNS of mice induces death of mature oligodendrocytes***

Floriane Bretheau[1], Martine Lessard[1], Steve Lacroix[1]

[1]Centre Hospitalier de l'Université Laval (CHUL)

1-C -86 ***Prevention of the collapse of pial collaterals by remote ischemic perconditioning during acute ischemic stroke***

Junqiang Ma[1]

[1]University of Alberta

1-C -87 ***Head Movements During Locomotion in Vestibular Schwannoma Patients: Decreased Variability After Unilateral Vestibular Lesion***

Omid Zobeiri[1], Susan King[2], Richard Lewis[2], Kathleen Cullen[3]

[1]McGill University, [2]Harvard Univesity, [3]Johns Hopkins University

1-C -88 ***The Christianson Syndrome Mutation NHE6 ΔES Impairs the Structure and Plasticity of Hippocampal Pyramidal Neurons***

Andy Gao[1], Alina Ilie[1], John Orlowski[1], Anne McKinney[1]

[1]McGill University

1-C -89 ***High-frequency deep brain stimulation of the fornix improves memory consolidation and causes network-level neuroanatomical remodelling in an Alzheimer's mouse model***

Daniel Gallino[1], Gabriel Devenyi[1], Jürgen Germann[1], Stephen Frey[2], Mallar Chakravarty[1]

[1]Douglas Mental Health University Institute, [2]Rogue Research Inc.

1-C -90 ***Neuroprotection and differential Na+/K+ pump isoform production in higher and lower brain regions***

Chloe Lowry[1], Michael Golod[1], Brian Bennett[1], R. David Andrew[1]

[1]Queen's University

1-C -91 ***Stimulants consumption in a Canadian undergraduate student sample: prevalence and motives for taking illicit or low-dose prescription stimulants***

Nicholas van den Berg[1], Ahisha Jones-Lavallée[1], Miguel Laforest[1], Gregory Gooding[1], Cassandra Goldfarb[1], Stine Linden-Andersen[1], Adrianna Mendrek[1], Suzanne Hood[1]

[1]Bishop's University

1-C -92 ***Cuprizone-induced oligodendrocyte loss and iron overload***

Priya Jhelum[1], Eva Nogueira[1], Samuel David[1]

[1]Research Institute of the McGill University Health Centre

1-C -93 ***The structural basis for Parkin-mediated mitochondrial quality control***

Marta Vranas[1], Matthew Tang[1], Edward Fon[1], Jean-François Trempe[1]

[1]McGill University

1-C -94 ***Injury promotes the development of autoimmune peripheral neuropathy in predisposed inflammatory environment***

Mu Yang[1], Xiangqun Shi[1], Corentin Peyret[1], Sonia Wu[1], Julien Chambon[1], Sylvie Fournier[1], Ji Zhang[1]

[1]McGill Univeristy

1-C -95 ***Pro and anti-inflammatory markers after experimental brain ischemia are different in microglia and infiltrating peripheral macrophages***

Juan G. Zarruk [1], Andrew D. Greenhalgh[1], Samuel David[1]

[1]McGill University Health Centre

1-C -96 ***Study of the effect of Polo-like kinase 2 on Alzheimer's disease related proteins and its implication in Alzheimer's disease***

Marilyn Dubois[1], Morgan Bérard[1], Manel Dahmene[1], Abid Oueslati[1]

[1]Centre de recherche du CHU de Québec (CHUL)

1-C -97 ***Acting at a distance: cerebellar tumour mechanisms that disrupt neural stem cell function and cognitive development***

Alexander Gont[1], Mark Zander[1], Sheila Singh[2], Freda Miller[1], David Kaplan[1]

[1]The Hospital for Sick Children, [2]Stem Cell Cancer Research Institute/ McMaster University

1-C -98 ***Macrophage activation profiles in spinal cord injury pain***

Courtney Bannerman[1], Margot Gunning[1], Andra Banete[1], Sameh Basta[1], Samuel David[2], Nader Ghasemlou[1]

[1]Queen's University, [2]McGill University

1-C -99 ***Intra-nigral infusion of saporin-conjugated quantum dots promotes microglial activation and dopaminergic degeneration***

Jeffrey Landrigan[1], Zach Dwyer[1], Shawn Hayley[1]

[1]Carleton University

1-C -100 ***Sox9 conditional knockout mice demonstrate improved recovery and increased reparative sprouting following middle cerebral artery occlusion***

Kathy Xu[1], Bethany Bass[1], Monty Mckillop[1], Todd Hryciw[1], Arthur Brown[1]

[1]Western University

1-C -101 ***Alteration of Striatal Synaptic Function by Tumour Necrosis Factor-alpha in Mice Model of Huntingtons Disease***

Pragya Komal[1], Horia Pribiag[2], Gil Lewitus[1], David Stellwagen[1]

[1]Mcgill University Health Centre, [2]University of California SanDiego

1-C -102 ***A rapid chemical-genetic screen utilizing impaired movement phenotypes in C. elegans models of Autism Spectrum Disorder (ASD)***

Kathrin Schmeisser[1], Alex Parker[1]

[1]CRCHUM

1-C -103 ***Structure and expression of the zebrafish ortholog of C9ORF72, with mutations in ALS.***

Alexandre Emond[1]

[1]CRCHUM Saint-Luc / Université de Montréal

1-C -104 ***Probing a Homeostatic Loop Linking the Fragile X Mental Retardation Protein and Methyl CpG Binding Protein 2***

Jason Arsenault[1], David Hampson[2]

[1]University of Toronto, [2]Sick Kids and University of Toronto

1-C -105 ***Impact of spinal cord injury on tau pathology***

Amy Bouchard[1], Franck Petry[1], Nicolas Josset[1], Françoise Morin[1], Yelena Boccacci[1], Maud Gratuze[1], Frédéric Bretzner[1], Emmanuel Planel[1]

[1]Université Laval

1-C -106 ***Cerebellar Networks are altered in Autism - Examined with Mouse Models***

Jacob Ellegood[1], Yohan Yee[1], Mark Henkelman[1], Peter Tsai[2], Jason Lerch[1]

[1]The Hospital for Sick Children, [2]UT Southwestern

1-C -107 ***Physical exercise impacts functional connectivity in pediatric brain tumour survivors***

Sonya Bells[1], Elizabeth Cox[1], Diana Harasym[2], Samantha Gauvreau[1], Jovanka Skocic[1], Cynthia de Medeiros[1], Eric Bouffet[1], Colleen Dockstader[3], Donald Mabbott[1]

[1]The Hospital for Sick Children Research Institute, [2]McMaster University, [3]University of Toronto

1-C -108 ***Small molecules that activate RET signals independent of GFR?Ñ1 co-receptors offer a novel therapeutic strategy for Retinitis Pigmentosa***

Sean Jmaeff[1], Yulia Sidorova[2], Hayley Lippiatt[1], Pablo Barcelona[1], Hinyu Nedev[1], Mart Saarma[2], Uri Saragovi[1]

[1]McGill University, [2]University of Helsinki

1-C -109 ***Aberrant ER Stress Response in Mouse Embryonic Fibroblasts Lacking the Sigma-1 Receptor***

Nina Ahlskog[1], Louis-Alexandre Tasse[1], Madelyn Abraham[1], Prakash Chudalayandi[1], Johnny Ngsee[1], Adrian Wong[2], Richard Bergeron[2]

[1]University of Ottawa, [2]Ottawa Hospital Research Institute

1-C -110 ***Treatment of AB-Variant GM2 Gangliosidoses Using Adeno-Associated Virus Serotype 9 in a Mouse Model***

Meera Vyas[1], Karlaina Osmon[1], Imtiaz Ahmad[1], Shalini Kot[1], Patrick Thompson[1], Steven Gray[2], Jagdeep Walia[1]

[1]Queen's University, [2]University of North Carolina

1-C -111 ***Polygenic markers of resilience; a genome-wide approach***

Shantala Hari Dass[1], Xin Yao[1], Lawrence Chen[1], Marie Forest[1], Celia Greenwood[1], Michael Meaney[1]

[1]McGill University

1-C -112 ***Characterizations of vestibular and optokinetic reflexes in a mouse model of spinocerebellar ataxia type 6***

Hui Ho Vanessa Chang[1], Sriram Jayabal[1], Alanna Watt[1], Kathleen Cullen[1]

[1]McGill University

1-C -113 ***Microglia-mediated effects of inflammation on visual system development in the zebrafish***

Cynthia Solek[1], Nasr A. Farooqi[1], Niklas Brake[1], Edward Ruthazer[1]

[1]Monteal Neurological Institute, McGill University

1-C -114 ***NLRs as an endogenous inhibitor of inflammation in multiple sclerosis***

Marjan Gharagozloo[1], Shaimaa Mahmoud[1], Kenzo Yamamoto[1], Katya Gris[1], Camille Simard[1], Denis Gris[1]

[1]University of Sherbrooke

1-C -115 ***High-throughput, in vivo drug screen identifies small molecules to rescue progranulin deficiency***

James Julian Doyle[1], Claudia Maios[2], Andrew Bateman[3], Hugh Bennett[3], Alex Parker[2]

[1]RI-MUHC and CRCHUM, [2]CRCHUM, [3]RI-MUHC

1-C -116 ***Motoneuron-specific silencing of the SMN1 gene in zebrafish reproduces hallmarks of spinal muscular atrophy***

Priyanka Jamadagni[1], Jean Giacomotto[2], Alexandra Lissouba[3], Kessen Patten[1]

[1]INRS-Institut Armand Frappier, [2]University of Queensland, [3]CRCHUM and Departement de Neurosciences, Universite de Montreal

1-C -117 ***Role of serotonin transporter gene in insomnia***

Maryam El Gewely[1], Mélanie Welman[1], Julien Beaudry[1], Simon Warby[1]

[1]Université de Montréal

1-C -118 ***Diabetes Impairs the Microglial Response to Cerebral Microbleeds***

Stephanie Taylor[1], Emily White[1], Craig Brown[1]

[1]University of Victoria

1-C -119 ***Mapping and manipulating the fate of obstructed microvessels***

Craig Brown[1], Patrick Reeson[1]

[1]University of Victoria

1-C -120 ***Perampenel, an alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA) receptor antagonist inhibits glutamate cytotoxicity and reverses symptoms in a rat model of Status Epilepticus.***

Hanan Mohammad[1], Zelan Wei[1], Sathiya Sekar[1], Changiz Taghibiglou[1], Moien Afshari Farzad[1]

[1]University of Saskatchewan

1-C -121 ***Hyperthermia induces tau dephosphorylation in vitro and in vivo***

Isabelle Guisle[1], Maud Gratuze[1], Françoise Morin[1], Franck Petry[1], Emmanuel Planel[1]

[1]CRCHU de Québec

1-C -122 ***Plasmatic variations of Klotho, apolipoproteins J and D levels and the antioxidant capacity are correlated with cognitive decline in patients with Alzheimer´s disease and mild cognitive impairment***

Morgane Perrotte[1], Aurélie Le Page[2], Pamela Camponova[2], Tamas Fulop[2], Eric Rassart[3], Charles Ramassamy[1]

[1]INRS institut Armand-frappier, [2]Université de Sherbrooke, [3]Université du Québec à Montréal

1-C -123 ***Braak neurofibrillary tangle staging prediction in Alzheimer's disease using in vivo MRI metrics***

Caroline Dallaire-Théroux[1], Olivier Potvin[2], Louis Dieumegarde[2], Simon Duchesne[1]

[1]Institut Universitaire en Santé Mentale de Québec / Université Laval Faculty of Medicine, [2]Institut Universitaire en Santé Mentale de Québec

1-C -124 ***Sensory Filtering and Social Behaviour in a Prenatal Immune Activation Model of Autism Spectrum Disorder***

Faraj Haddad[1], Lu Lu[1], Cleusa De Oliveira[1], Susanne Schmid[1]

[1]University of Western Ontario

1-C -125 ***Assessing the progression of early Alzheimer Disease (AD) and the role of intraneuronal amyloid beta and oxidative stress***

Morgan Foret[1], Sonia Do Carmo[1], Lana Greene[1], Gonzalo Cosa[1], A Claudio Cuello[1]

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1-C -126 ***Hyperactive CDK5 Inhibitory Peptides - TP5 and Peptide A - Display Neuroprotective and Restorative Roles in the 6-OHDA Lesioned Model of Parkinson?s Disease***

Ashley Bernardo[1], Karen Yuen[2], Harish Pant[3], Patrick Gunning[2], Ram Mishra[1]

[1]McMaster University, [2]University of Toronto, [3]NIH

1-C -127 ***Blocking Alzheimer's-associated phosphorylation at AT8, AT8/AT100 or S422 sites on tau does not affect tau-induced BDNF down-regulation in vitro***

Crystal Mahadeo[1], Yilong Dong[1], Elyse Rosa[1], Savannah Kilpatrick[1], Cheolju Park[1], Lars Ittner[2], Margaret Fahnestock[1]

[1]McMaster University, [2]University of New South Wales

1-C -128 ***Optimizing stimulation parameters and treatment fields for Intratumoral Modulation Therapy***

Andrew Deweyert[1], Matthew Hebb[1], Susanne Schmid[1], Andrea Di Sebastiano[1], Eugene Wong[1], Hu Xu[1]

[1]University of Western Ontario

1-C -130 ***Impaired hypothalamic insulin signaling and peripheral metabolic dysregulation in AD animal models***

Rafaella Araujo Goncalves da Silva[1], Natalia de Menezes Lyra e Silva[2], Juliana Andrade Peny[2], Ricardo A S Lima Filho[2], Julia R Clarke[3], Douglas P Munoz[4], Sergio T. Ferreira[2], Paul Fraser[5], Fernanda De Felice[6]

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1-C -131 ***Early Parkinson Disease Progression: The Role of Intrinsic Brain Networks***

Yvonne Yau[1], Yashar Zeighami[1], Travis Baker[2], Kevin Larcher[1], Louis Collins[1], Alain Dagher[1]

[1]Montreal Neurological Institute, [2]Rutgers University

1-C -132 ***Glutamine synthetase in endothelial cells of the blood-brain barrier: protecting the brain in hepatic encephalopathy?***

Mariana Oliveira[1], Mélanie Tremblay[1], Christopher Rose[1]

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1-C -133 ***The Role of Stress-Inducible protein 1 (STI1) in cellular resilience and Alzheimer's disease***

Rachel Lackie[1], Jose Marques-Lopes[1], Valeriy Ostapchenko[1], Flavio Beraldo[1], Jue Fan[1], Vilma Martins[2], Vania Prado[1], Marco Prado[1]

[1]Western University, [2]International Research Center, A. C. Camargo Cancer Center and National Institute for Translational

1-C -134 ***Expression of Cerebral Dopaminergic Neurotrophic Factor in Human Patients with Stroke and Dementia***

Hetshree Joshi[1], Simona Gabriele[1], Ram Mishra[1]

[1]McMaster University

1-C -135 ***Repeated Mild Traumatic Brain Injury: Insights from a new animal model.***

Brian Christie[1], Alicia Meconi[1], Katie Neale[1], Ryan Wortman[1], Sandy Shultz[2], David Wright[3]

[1]University of Victoria, [2]University of Melbourne, [3]The Florey Institute of Neuroscience and Mental Health

1-C -136 ***Anatomical correlates of functional recovery after treatment with metformin in a mouse model of cerebral palsy***

Kamila Szulc[1], Parvati Dadwal[2], Neemat Mahmud [2], Rebecca Rudy [2], Nadia Sachewsky[2], Christine Laliberte[1], Jacob Ellegood [1], Brian Nieman [1], Cindi Morshead [2], Donald Mabbott [1]

[1]Hospital for Sick Children, [2]University of Toronto

1-C -137 ***Focused ultrasound-mediated long-term delivery of a therapeutic in a mouse model of Alzheimer's disease***

Zeinab Noroozian[1], Joey Silburt[1], Danielle Weber-Adrian[1], Kristiana Xhima[1], Laura Vecchio[2], Kelly Markham-Coultes[2], Melissa Theodore[2], Marine Lanfranchi[3], Dariush Davani[4], Kagan Kerman[5], Sebastian Kügler[6], Diane Lagace[7], JoAnne McLaurin[2], Kullervo Hynynen

[1]University of Toronto, [2]Sunnybrook Research Institute, [3]University of Paris-Saclay, [4]Hospital for Sick Children Research Institute, [5]University of Toronto Scarborough, [6]University Medicine Goettingen, [7]University of Ottawa

1-C -138 ***Rescue of ATXN3 Neuronal Toxicity in C. elegans by Chemical Modification of ER Stress***

Yasmin Fard Ghassemi[1], Arnaud Tauffenberger[1], J. Alex Parker[1]

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D – Sensory and Motor Systems

1-D -139 ***Insulin signalling enhances AMPK activity, mitochondrial function and neurite outgrowth in adult sensory neurons***

Mohamad-Reza Aghanoori[1], Paul Fernyhough[1]

[1]Division of Neurodegenerative Disorders, St Boniface Hospital Albrechtsen Research Centre and Depart

1-D -140 ***Changes in behavioral expressions of acute and chronic pain in aging mice are associated with altered supraspinal plasticity in Pre-Frontal Cortex.***

Magali Millecamps[1], Xiang Shi[1], Marjo Piltonen[1], Luda Datchienko[1], Ji Zhang[1], Laura Stone[1]

[1]McGill University

1-D -141 ***Brainstem Responses to Simple and Complex Auditory Stimuli in Tinnitus***

Shaghayegh Omidvar[1], Saeed Mahmoudian[2], Mehdi Khabazkhoob[3], Mohsen Ahadi[2], Zahra Jafari[4]

[1]Shiraz University of Medical Sciences, [2]Iran University of Medical Sciences, [3]Shahid Beheshti University of Medical Sciences, [4]University of Lethbridge

1-D -142 ***Cortical Reorganization Relates to Functional Activity of Upper Limb Muscles Following Chronic Incomplete Spinal Cord Injury***

Hunter Fassett[1], Claudia Turco[1], Jenin El-Sayes[1], Aimee Nelson[1]

[1]McMaster University

1-D -143 ***A brain-computer interface for motor rehabilitation with multi-modal feedback in chronic stroke patient***

Christoph Guger[1], Fan Cao[1], James Swift[2], Guenter Edlinger[3]

[1]g.tec medical engineering GmbH, [2]g.tec neurotechnology Inc., [3]Guger Technologies OG

1-D -144 ***The role of circadian rhythms in somatosensation***

Kaitlyn Tresidder[1], Julia Segal[1], Ian Gilron[1], Nader Ghasemlou[1]

[1]Queen's University

1-D -145 ***Effect of strychnine on developing Zebrafish (Danio rerio) central pattern generator: From subtle effects to active disruption of a key rhythm for swimming.***

Yann Roussel[1], Tuan Bui[1]

[1]University of Ottawa

1-D -146 ***Heterogeneity of presynaptic inhibition in different populations of afferent fibers.***

Jimena Perez-Sanchez[1], Yves De Koninck[1]

[1]Université Laval

1-D -147 ***Genetic dissection of the Mesencephalic Locomotor Region: Postural tone and locomotor initiation in the resting mouse***

Marie Roussel[1], Nicolas Josset[1], David Lafrance-Zougba[1], Frédéric Bretzner[1]

[1]Université Laval

1-D -148 ***The roles of parvalbumin and somatostatin expressing interneurons in modulating contrast adaptation in the mouse primary visual cortex***

Jillian King[1], Austin Korgan[1], Emily Papsin[1], Nathan Crowder[1]

[1]Dalhousie University

1-D -149 ***Modulation of Orientation Selectivity in Primary Visual Cortex via Short-term Synaptic Plasticity***

Nareg Berberian[1], Jean-Philippe Thivierge[1]

[1]University of Ottawa

1-D -150 ***Vestibular contributions to online reach execution take into account limb biomechanics***

Philippe Lapierre[1], Christophe Martin[1], Diderot Lucien[1], Andrea Green[1]

[1]Université de Montréal

1-D -152 ***Cognitive-motor integration assessment detects impairment in varsity athletes cleared for return to play***

Alanna Pierias[1], Johanna Hurtubise[1], Cindy Hughes[1], Alison Macpherson[1], Lauren Sergio[1]

[1]York University

1-D -153 ***Connectivity and interhemispheric inhibition between motor cortices: a study with transcranial alternating current stimulation***

Gabrielle Klees-Themens[1], Louis-Philippe Lafleur[1], Geneviève Lefebvre[1], Jean-François Lepage[2], Hugo Théoret[1]

[1]CERNEC, [2]CHUS

1-D -154 ***Neuronal activity in feline premotor areas in the ventral bank of the cruciate sulcus during visually-guided locomotion: Limb-independent and limb-selective activity***

Toshi Nakajima[1], Nicolas Fortier-Lebel[1], Nabiha Yahiaoui[1], Trevor Drew[1]

[1]Université de Montréal

1-D -155 ***Applying Optogenetics to the Feline Model in Motor Control***

Nicolas Fortier Lebel[1], Jannic Boehm[1], Trevor Drew[1]

[1]Université de Montréal, GRSNC

1-D -156 ***Contribution of the sodium proton exchanger NHE6 to nociception***

Tarheen Fatima[1], Alina Ilie[1], John Orlowski[1], Reza Sharif-Naeini[1]

[1]McGill University

1-D -157 ***Characteristics of neurones in the globus pallidus (GP) of the cat during visually-guided locomotion***

Yannick Mullie[1], Irene Arto[1], Julia Leonard[1], Nabiha yahiaoui[1], Trevor Drew[1]

[1]Université de Montréal

1-D -158 ***Distribution of P2X2 and P2X3 purinergic receptors in the head of the newborn opossum, Monodelphis domestica***

Ariane Beauvais[1], Jean-François Pflieger[1]

[1]Université de Montréal

1-D -159 ***Altered Resting-State Functional Connectivity Following Isometric Handgrips in Healthy Aging***

Sara Lariviere[1], Alba Xifra-Porxas[1], Guiomar Niso[1], Michalis Kassinopoulos[1], Georgios Mitsis[1], Marie-Hélène Boudrias[1]

[1]McGill University

1-D -160 ***Mechanisms of Right Posterior Parietal Functional Connectivity to the Contralateral Motor Cortex***

Julianne Baarbé[1], Michael Vesia [2], Anne Weissbach[1], Carolyn Gunraj[3], James Saravanamuttu[1], Nirsan Kunaratnam[1], Cricia Rinchon[1], Robert Chen[1]

[1]University of Toronto, [2]University of Toronto , [3]Krembil Research Institute

1-D -161 ***Examining the role of TRP channels in Drosophila larval thermal preference***

Alice Lin[1], Kiel Ormerod[1], Troy Littleton[1]

[1]Massachusetts Institute of Technology

1-D -162 ***The TRPV1 channel controls endogenous opioid analgesia via trafficking of beta-Arrestin2 to the nucleus***

Lilian Basso[1], Reem Aboushousha[1], Churmy Yong Fan[1], Francina Agosti[2], Helvira Melo[1], Mircea Iftinca[1], Robyn Flynn[1], Emmanuel Bourinet[2], Roger Thompson[1], Tuan Trang[1], Altier Christophe[1]

[1]University of Calgary, [2]University of Montpellier

1-D -163 ***Comparative analysis of allocentric visual-motor transformations between the Frontal eye fields and Supplementary eye fields of head unrestrained monkeys***

Vishal Bharmauria[1], Amirsaman Sajad [2], Harbandhan Arora[1], Xiaoganag Yan[1], Hongying Wang[1], Saihong Sun[1], John Douglas Crawford[1]

[1]York University, [2]Vanderbilt University

1-D -164 ***Linear Readout of Cortical Activity Suggests a Role for Criticality in Neural Coding***

Eric Kuebler[1], Joseph Tauskela[2], Jean-Philippe Thivierge[1]

[1]University of Ottawa, [2]National Research Council of Canada

1-D -165 ***Auditory stimulation modulates orientation selectivity in V1***

Nayan Chanauria[1], Vishal Bharmauria[2], Faustin Armel Etindele Sosso[1], Lyes Bachatene[3], Sarah Cattan[4], Jean Rouat[5], Stéphane Molotchnikoff[1]

[1]University of Montreal, [2]York University, [3]University of Sherbrooke, [4]Institut de Neuroscience de la Timone, Marseille, [5]Universite de Sherbrooke

1-D -166 ***Discrimination of finger flexion speed using EEG power spectral entropy***

Haruko Nishida[1], Naoto Toshima[1], Toshimasa Yamazaki[1], Takahiro Yamanoi[2]

[1]Kyushu Institute of Technology, [2]Hokkai-Gakuen University

1-D -167 ***Neural mechanisms involved in updating grasp plans: An fMRI study***

Bianca Baltaretu[1], Simona Monaco[1], Jena Velji-Ibrahim[2], Gaelle Luabeya[2], J. Crawford[2]

[1]University of Trento, [2]York University

1-D -168 ***Top-down control of sensory focus***

Stephen Clarke[1]

[1]University of Ottawa

1-D -169 ***The rate and temporal patterning of spikes in primary somatosensory cortex independently encode the amplitude and frequency of periodic signals like those driven by vibration***

Mohammad Amin Kamaleddin[1], Steven Prescott[2]

[1]University of Toronto, [2]The Hospital for Sick Children

E – Homeostatic and Neuroendocrine Systems

1-E -170 ***Luman/CREB3-deficient mice display blunted stress responses and a disregulated HPA axis***

Jenna Penney[1], Tiegh Taylor[1], Ari Mendell[1], Neil MacLusky[1], Elena Choleris[1], Ray Lu[1]

[1]University of Guelph

1-E -171 ***Maternal high fat diet and prenatal stress programmes neonatal behaviour and stress physiology***

Sameera Abuaish[1], Patrick McGowan[1]

[1]University of Toronto

1-E -172 ***Differential DNA methylation in the rat brain in adulthood associated with high fat diet exposure in early life***

Wilfred de Vega[1], Christine Lum[1], Sameera Abuaish[1], Patrick McGowan[1]

[1]University of Toronto

1-E -173 ***Effect of chronic salt intake on vasopressinergic magnocellular neurosecretory neurons in the supraoptic nucleus***

David Levi[1], Masha Prager-Khoutorsky[2], Charles Bourque[3]

[1]Research Institute, McGill University Health Centre, [2]McGill University, [3]Research Institute of the McGill University Health Centre

1-E -174 ***Deletion of melanin-concentrating hormone receptor 1 from the accumbens nucleus increases locomotor activity***

Melissa Chee[1], Stephen Flaherty III[2], Pavlos Pissios[2], Nadege Briancon[2], Jeffrey Flier[2], Eleftheria Maratos-Flier[2]

[1]Carleton University, [2]Beth Israel Deaconess Medical Center, Harvard Medical School

1-E -175 ***Measuring the activity of hypothalamic CRH neurons during stress***

Tamás Füzesi[1], David Rosenegger[1], Jaideep Bains[1]

[1]Hotchkiss Brain Institute

1-E -176 ***Status of a manual structural magnetic resonance imaging segmentation protocol of the hypothalamic-pituitary-gonadal axis***

Sherri Lee Jones[1], Chloe Anastassiadis [1], Jamie Near[1], David Laplante[2], Suzanne King[1], Jens Pruessner[1]

[1]McGill University, [2]Douglas Mental Health University Institute, McGill University

F – Cognition and Behaviour

1-F -177 ***Determining the Evolutionarily Conserved Role of Glial Derived Lactate in Drosophila melanogaster Memory***

Ariel Frame[1], Anne Simon[1], Robert Cumming[1]

[1]Western University

1-F -178 ***Role of orexinergic receptors in the nucleus accumbens on food deprivation and forced swim stress-induced reinstatement of morphine-conditioned place preference in rats***

Abbas Haghparast[1]

[1]Shahid Beheshti University of Medical Sciences

1-F -179 ***Spatial manipulations of visual and auditory stimuli in crossmodal attentional blink***

Amanda Sinclair[1], Jordin Tilbury[1], Steven Prime[1]

[1]University of Saskatchewan

1-F -180 ***Longitudinal studies of neurological symptoms in a mouse model of Werner syndrome***

Chin Wai Hui[1], Michel Lebel[1], Marie-Ève Tremblay[1]

[1]Centre de recherche du CHU de Québec, Université Laval

1-F -181 ***Differential roles of infralimbic and prelimbic cortices in contextual biconditional discrimination memory retrieval***

Sadia Riaz[1], Pugaliya Puveendrakumaran[1], Dinat Khan[1], Sharon Yoon[1], Rutsuko Ito[1]

[1]University of Toronto

1-F -182 ***The influence of environmental factors on memory formation***

Cailin Rothwell[1], Gaynor Spencer[2], Ken Lukowiak[1]

[1]University of Calgary, [2]Brock University

1-F -183 ***Methylene blue treatment rescues cognitive deficits in mice expressing active human Caspase-6 in hippocampal CA1 region***

Libin Zhou[1], Andrea LeBlanc[1]

[1]McGill University

1-F -184 ***Serotonergic (5-HT) Receptors Gate the Induction of Long-Term Potentiation (LTP) in the Thalamocortical Auditory System of Rats***

Karen Lee[1], Hans Dringenberg[1]

[1]Queen's University

1-F -185 ***Human sign-trackers are more prone to risk, but not more susceptible to risk-promoting effects of reward-paired sensory features than human goal-trackers***

Mariya Cherkasova[1], Alaa Akl[1], Luke Clark[1], Jason Barton[1], Michael Schulzer[1], A. Stoessl[1], Catharine Winstanley[1]

[1]University of British Columbia

1-F -186 ***Neural correlates of affective touch in mice***

Claire Chan[1], Chulmin Cho[1], Sivaani Sivaselvachandran [1], Loren Martin[1]

[1]University of Toronto

1-F -187 ***How does pimozide affect the motivational after-effect of rewarding brain stimulation?***

Czarina Evangelista[1], Norhan Mehrez[1], Wayne Brake[1], Peter Shizgal[1]

[1]Concordia University

1-F -188 ***Auditory ERP differences across a continuum of psychotic symptoms in non-clinical population***

Anaya Rehman[1], Nichole Scheerer[2], Jeffery Jones[1]

[1]Wilfrid Laurier University, [2]University of New Brunswick

1-F -189 ***Executive Functioning and Emotion Processing Deficits in Attention-Deficit Hyperactivity Disorder and Bipolar Disorder***

Rachel Yep[1], Donald Brien[1], Brian Coe[1], Alina Marin[2], Douglas Munoz[1]

[1]Queen's University, [2]Hotel Dieu Hospital

1-F -190 ***Modulation of cortical contrast response across the visual hierarchy depends on pulvinar activity***

Nelson Cortes[1], Bruno Souza[1], Christian Casanova[1]

[1]Universite de Montreal

1-F -191 ***Opioid-mediated conditioning as a novel mouse model of placebo analgesia***

Chulmin Cho[1], Sarasa Tohyama[1], Mary Loka[1], Moon Jeong Cho[1], Claire Chan[1], Matthew Danesh[1], Vassilia Michailidis[1], Loren Martin[1]

[1]University of Toronto Mississauga

1-F -192 ***Stress-related Circuitry that Regulates Empathy-like Behaviours in Rodents***

Sivaani Sivaselvachandran[1], Navdeep Lidhar[1], Fatima Safi[1], Meruba Sivaselvachandran[1], Abiram Chandiramohan[1], Sarah Rosen [1], Chulmin Cho[1], Loren Martin[1]

[1]University of Toronto

1-F -193 ***Transformation of the head-direction signal into a spatial code***

Adrien Peyrache[1], Lisa Roux[2], Natalie Schieferstein[2], Gyorgy Buzsaki[1]

[1]McGill University, [2]New York University

1-F -194 ***Alpha and beta oscillation at rest correlates with working memory capacities: A resting-state MEG study.***

Victor Oswald[1], Zerouali Younes[1], Aubrée Boulet-Craig[2], Sarah Lippé[1], Karim Jerbi[1], Philippe Robaey[1]

[1]Université of Montreal, [2]University of Montreal

1-F -195 ***Contribution of perineuronal nets in the prefrontal cortex to cognitive function***

John Paylor[1], Brittney Lins[2], Nadine Zabder[2], Quentin Greba[2], John Howland[2], Ian Winship[1]

[1]University of Alberta, [2]University of Saskatchewan

1-F -196 ***Population remapping in the entorhinal cortex and its role in mediating navigation in a novel water task in rats***

Deryn LeDuke[1], Justin Lee[2], Robert McDonald[2], Robert Sutherland[2]

[1]Quest University Canada, [2]University of Lethbridge

1-F -197 ***Rats with intermittent intake access to cocaine in the past showed persistent susceptibility to reinstatement and more incubation of drug craving only when cocaine is injected rapidly***

Aliou Badara Gueye[1], Florence Allain[1], Anne-Noël Samaha[1]

[1]Université de Montréal

1-F -198 ***A simple automated system for appetitive conditioning of zebrafish in their home tanks and studying underlying neural activation***

Neil Merovitch[1], Jillian Doyle[1], Russell Wyeth[2], Matthew Stoyek[1], Alan Fine[1], Roger Croll[1]

[1]Dalhousie University, [2]St. Francis Xavier University

1-F -199 ***Anxiodepressive-like behaviours induced by high fat feeding: particularities in female mice.***

Lea Decarie-Spain[1], Alexandre Fisette[1], Elizabeth Jacob-Brassard[1], Diogo Fiuza[1], Melodie Takla[1], Philip Barker[2], Nathalie Arbour[1], Thierry Alquier[1], Stephanie Fulton[1]

[1]Centre hospitalier de l'Université de Montréal , [2]University of British Columbia

1-F -200 ***Post-synaptic expression of DCC regulates synaptic plasticity in the adult mammalian hippocampus***

Edwin Wong[1], Stephen Glasgow[1], Greta Thompson-Steckel[2], Timothy Kennedy[1]

[1]McGill University, [2]ETH Zurich

1-F -201 ***Orbitofrontal infusion of the T-type calcium channel antagonist Z944 impairs visual-olfactory integration on a novel rodent multisensory integration task***

Madeline Parker[1], Wendie Marks [1], Terrance Snutch [1], John Howland [1]

[1]University of Saskatchewan

1-F -202 ***Spatial Distribution of Hippocampo-Cortical Interaction during Sharp-Wave Ripples***

Javad Karimi[1], Mojtaba Nazari[1], Thomas Knopfel[2], Bruce McNaughton[1], Majid Mohajerani[1]

[1]Canadian Centre for Behavioral Neurosceince/University of Lethbridge, [2]Imperial College London

1-F -203 ***The sulcus diagonalis and the ascending ramus of the lateral fissure: a comparison of two defining sulci of the inferior frontal gyrus of the human brain***

Trisanna Sprung-Much[1], Michael Petrides[1]

[1]McGill University, Montreal Neurological Institute

1-F -204 ***Automated Method to Measure Daily Mouse Routine Behavior in Health and Disease***

Kenzo Yamamoto[1], Katya Gris[1], Marjan Gharagozloo[1], Shaimaa Mahmoud[1], Denis Gris[1]

[1]University of Sherbrooke

1-F -205 ***Imaging Blindsight: A study of motion detection and MRI***

Michèle MacLean[1], Vanessa Hadid[1], Latifa Drouiche[1], Antonin Tran[1], Mathieu Dehaes[1], Franco Lepore[1]

[1]Université de Montréal

1-F -206 ***Behavioral phenotyping of trait impulsivity with a decision-making task***

Matthew Carland[1], Paul Cisek[1]

[1]Université de Montréal

1-F -207 ***Within-Litter Maternal Care Interacts with Dopamine Transporter Genotype and Dopamine-Related Behaviour in Female Rat Offspring***

Samantha Lauby[1], Pauline Pan[1], Alison Fleming[1], Patrick McGowan[1]

[1]University of Toronto

1-F -208 ***Physiological roles of glutamate secreted from VGLUT3-expressing neurons***

Ornela Kljakic[1], Helena Janickova[1], Mohammed Al-Onaizi[1], Salah Mestikawy[2], Marco Prado[1], Vania Prado[1]

[1]Robarts Research Institute, University of Western Ontario, [2]Douglas Mental Health University Institute, McGill University

1-F -209 ***The Efficacy of Oral Versus Injectable Administration of Analgesia***

Mary Loka[1], Chulmin Cho[1], Matthew Danesh[1], Vassilia Michailidis[1], Loren Martin[1]

[1]University of Toronto

1-F -210 ***Environmental enrichment increases resilience to aversive social stress in mice***

Moein Yaqubi[1], Carine Parent[1], Xianglan Wen[1], Dara Shahrokh[1], Allison Martel[1], Nicholas O'Toole[1], Josie Diorio[1], Michael Meaney[1], Tie-Yuan Zhang[1]

[1]McGill University

1-F -211 ***The effects of maternal separation and variable unpredictable stressors on behavior, neuropeptide Y and gut microbiota composition.***

Christian Avila[1], Giada DePalma[1], Jun Lu[1], Stephen Collins[1], Premysl Bercik[1]

[1]McMaster University

1-F -212 ***EEG functional connectivity during a working memory task in children with learning disorders***

Benito Martínez Briones[1], Thalía Fernández-Harmony[1], Rolando Biscay-Lirio[2], Gina Quirarte[1], Jorge Bosch-Bayard[1]

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1-F -213 ***Deep Brain Stimulation improves spatial memory in an Alzheimer's Disease mouse model***

Eva Vico Varela[1], Sylvain Williams[1]

[1]McGill University

1-F -214 ***Temporal dynamics of amygdala striatal communication during risk/reward decision-making***

Debra Bercovici[1], Stan Floresco[1]

[1]University of British Columbia

1-F -215 ***Modulation of probabilistic discounting and reversal learning by dopamine within the medial orbitofrontal cortex***

Nicole Jenni[1], Yi Tao Li[1], Stan Floresco[1]

[1]University of British Columbia

1-F -216 ***Dorsomedial striatum D1 and D2 receptors have opposing roles in approach-avoidance conflict decision making***

David Nguyen[1], Erind Alushaj[1], Suzanne Erb[1], Rutsuko Ito[1]

[1]University of Toronto

1-F -217 ***Magnetic stimulation of the supplementary motor complex delayed response processing in a go/no-go task in men***

Christina Tremblay[1], Stefania Ficarella[1], Boris Burle[1]

[1]Aix-Marseille University/CNRS

1-F -218 ***The effects of nicotine on cognitive function across the menstrual cycle in non-smoking women***

Carina Di Tomaso[1], Samantha Cote[1], Dennis Gerlofs[1], Janie Damien[1], Adrianna Mendrek[1]

[1]Bishop's University

1-F -219 ***Role of medial septum cholinergic neurons in memory consolidation during REM sleep***

Junil Kang[1], Sylvain Williams[1]

[1]Douglas Mental Health University Institute

1-F -220 ***Objects devoid of edge information yield depth cue invariant representations in the ventral pathway***

Hassan Akhavein[1], Reza Farivar[1]

[1]Mcgill University

1-F -221 ***Relationship between the modular structures of BFCNs and individual variability in foreign language learning ability***

Akiyoshi Akiyama[1], Toshimasa Yamazaki[1], Eiko Soejima[2], Takahiko Yamamoto[2]

[1]Kyushu Institute of Technology, [2]Fukuoka Jyoto High School

1-F -222 ***Sleep dependent declarative memory reconsolidation in healthy youg adults***

Jeiran Farrahi Moghaddam[1], Ella Gabitov[1], Maya Liverant[2], Arnaud Boutin[1], Basile Pinsard[1], Arnaud Boré[1], Ovidiu Lungu[1], Julien Doyon[1]

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1-F -223 ***To attack or to defend? Resolution of response competition by the Basal Ganglia.***

Eliane Comoli[1], Peter Redgrave[2]

[1]University of São Paulo, [2]Sheffield University

G – Novel Methods and Technology Development

1-G -224 ***LCM-RRBS: A novel PCR-amplicon based method compatible with post-mortem samples***

Daniel Almeida[1], Gary Chen[1], Naguib Mechawar[1], Carl Ernst[1], Gustavo Turecki[1]

[1]McGill

1-G -225 ***Diffusion weighted tractography in the common marmoset monkey at 9.4 T***

David Schaeffer[1], Kyle Gilbert[1], Joe Gati[1], Alex Li[1], Ravi Menon[1], Stefan Everling[1]

[1]University of Western Ontario

1-G -226 ***Elucidating the role of lncRNAs in neuronal survival***

Martine Therrien[1], Myriam Heiman[2]

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1-G -227 ***Timing and Dynamics Comparison Between Exponential, Quadratic, and the New Cubic Integrate & Fire Models***

Melissa Johnson[1], Sylvain Chartier[1]

[1]Univeristy of Ottawa

1-G -228 ***Design of a specific SOFA-ribozyme to target the tauopathies***

Laura Eyoum Jong[1], Georges Lévesque[1], Emmanuel Planel[1]

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1-G -229 ***Comparison of various preparation methods for the study of tau protein phosphorylation by immunohistochemistry***

Andréanne Turgeon[1], Maud Gratuze[1], Françoise Morin[2], Wai Hang Cheng[3], Cheryl Wellington[3], Sébastien Hébert[1], Emmanuel Planel[1]

[1]Université Laval , [2]Université Laval, [3]University of British Columbia

1-G -230 ***A rapid method for quantifying the relative intensity of immunofluorescence over large cortical regions***

Jennifer Novek[1], Nour Malek[1], R Anne McKinney[1], Julio Martinez-Trujillo[2], Michael Petrides[3]

[1]McGill University, [2]Western University, Robarts Research Institute, [3]McGill University, Montreal Neurological Institute

1-G -231 ***Differential Diagnosis of Epilepsy and Psychogenic Non-epileptic Seizures***

Shannon Baker[1], Katrina Kent[1], Matthew Greenacre[1], Laszlo Erdodi[2]

[1]Schulich School of Medicine and Dentistry & University of Windsor, [2]University of Windsor

1-G -233 ***Hanging Behavior in Mice is a Sensitive Marker of Animal Welfare***

Ingita Patel[1], Irene Lecker [2], Jeffrey Mogil[3], Robert Bonin[2]

[1]University of Toronto, [2]University of Toronto , [3]McGill University

1-G -234 ***An Improved 3D Hydrogel Culture Model for Glial Scarring***

Kyle Koss[1], Matthew Churchward[1], Kathryn Todd[1]

[1]University of Alberta

1-G -235 ***Automated Optogenetic and Mesoscopic Brain Imaging System for the Mouse Home-cage***

Federico Bolanos[1], Jeffrey LeDue[1], James Boyd[1], Timothy Murphy[1]

[1]University of British Columbia

1-G -236 ***A random-access, two-photon laser-scanning system design for comprehensive, in vivo and awake imaging of neural activity***

Kelly Sakaki[1], Kaspar Podgorski[2], Kurt Haas[1]

[1]Djavad Mowafaghian Centre for Brain Health, [2]Howard Hughes Medical Institute

1-G -237 ***Fiber-optic imaging of FRET biosensors for recording GPCR signalling in vivo***

Jace Jones-Tabah[1], Faiza Benaliouad[1], Paul Clarke[1], Terence Hébert[1]

[1]McGill University

1-G -238 ***Dynamic generation of thesaurus from text using deep learning***

Kyomoto Matsushita[1], Toshimasa Yamazaki[1]

[1]kyushu institute of technology

H – History, Teaching, Public Awareness and Societal Impacts in Neuroscience

1-H -239 ***A Brain Museum Tour of Europe***

Richard Brown[1], Emre Fertan[1]

[1]Dalhousie University

1-H -240 ***Convergence, Perceptions of Neuroscience.***

Cristian Zaelzer[1], Kimberly Glassman[1], Andree Lessard[2], Valerie Henault[1], Alice Brassard[1], Kevin Jung-Hoo Park[1], pk Langshaw[3], Keith Murai[2], Rebecca Duclos[3]

[1]Convergence Initiative, [2]Research Institute of the MUHC, [3]Concordia University

1-H -241 ***The Multiple Roles Families Play, Including Unpaid Healthcare Providers, after Severe Brain Injury***

Laura Gonzalez-Lara[1], Sarah Munce [2], Jennifer Christian [3], Fiona Webster[4], Adrian Owen[1], Charles Weijer [1]

[1]Western University, [2]University Health Network, [3]Centre for Addiction and Mental Health, [4]University of Toronto

IBRO – International Brain Research Organization

1-IBRO-242 ***Prenatal stress induces vulnerability to nicotine addiction and alters D2 receptors? expression in the nucleus accumbens in adult rats***

Nadia Said[1], Sara Lakehayli[1], Meryam El Khachibi[1], Meryama El Ouahli[1], Sellama Nadifi[1], Farid Hakkou[1], Abdelouahhab TAZI[1]

[1]Faculty of Medicine and Pharmacy of Casablanca

1-IBRO-243 ***Promoting Oligodentrocytes Precursor cells proliferation and survival in Multiple Sclerosis***

Ahmed Soliman[1]

[1]October University for Modern Sciences and Arts (MSA)

1-IBRO-244 ***Light Sheet Fluorescence Microscopy (LSFM) as a tool to study the role of F-spondin in neural development of zebrafish***

Nathalie Agudelo-Dueñas[1], Manu Forero-Shelton[1], Veronica Akle[1]

[1]Universidad de los Andes

1-IBRO-245 ***Ten years of Canadian International Brain Research Organization (IBRO) Schools of Neuroscience***

Ante Padjen[1], Albert Aguayo[1], David Ragsdale[1], Melissa Vollrath[1]

[1]McGill University

Notes

A – Development

2-A -1 ***Translational control of neuronal subtype specification by the 4E-T repressive complex in neural precursor cells***

Siraj Zahr[1], Guang Yang[1], Hilal Kazan[2], Gianluca Amadei[3], David Kaplan[1], Freda Miller[1]

[1]University of Toronto, [2]Antalya International University, [3]University of Cambridge

2-A -2 ***Quaking deficient oligodendrocytes display major splicing defects of the key axoglial junction protein, Neurofascin-155, as well as self-splicing.***

Lama Darbelli[1], karine Choquet[2], Claudia Kleinman[2], Stéphane Richard[1]

[1]Lady Davis Institute for Medical Research/ McGill Univresity, [2]Segal Cancer Centre/ McGill University

2-A -3 ***Role of histone deacetylase 2 (HDAC2) in PV cell circuit development***

Marisol Lavertu Jolin[1], Félix Dumouchel[1], Théo Badra[1], Graziella Di Cristo[1]

[1]Université de Montréal, Centre de recherche du CHU Sainte-Justine

2-A -4 ***Characterization of cellular diversity in the embryonic cerebral cortex using single-cell genomics***

Scott Yuzwa[1], Michael Borrett[2], Troy Ketela[3], David Kaplan[1], Freda Miller[1]

[1]Hospital for Sick Children, [2]University of Toronto, [3]Princess Margaret Hospital

2-A -5 ***Hoxb8:Cre represents spinofugal projections of nociceptive circuits***

Farin B. Bourojeni[1], Artur Kania[2]

[1]McGill University, [2]Institut de recherches cliniques de Montréal

2-A -6 ***IL-6 and Its Receptor Are Required For the Maintenance Of Adult Neural Stem Cell Pools***

Mekayla Storer[1], Denis Gallagher[1], Michael Fatt[1], Jaclin Simonetta[1], David Kaplan[1], Freda Miller[1]

[1]Hospital for Sick Children

2-A -8 ***Early cannabis use initiation at 12-14 years old associated with thinner frontal and temporal cortical thickness***

Flavie Laroque[1], Josiane Bourque[1], Sean Spinney[1], Rachel Sharkey[2], Travis Baker[3], Alain Dagher[2], Alan Evans[2], Hugh Garavan[4], Marco Leyton[2], Jean Séguin[1], Robert Pihl[2], Patricia Conrod[1]

[1]University of Montreal, [2]McGill University, [3]Rutgers University, [4]University of Vermont

2-A -9 ***Differential requirement for Kirrel-2 in the formation of the vomeronasal and olfactory glomerular maps.***

Katrine Iversen*[1], Alexandra Brignall*[1], Alina Phen[1], Reesha Raja[1], Janet Prince[1], Jean-François Cloutier[1]

[1]McGill University

2-A-7 ***Structural connectivity abnormality in children treated for medulloblastoma***

Adeoye Oyefiade[1], Donald Mabbott[1]

[1]The Hospital for Sick Children

2-A -10 ***Calcium signaling determines the transition from quiescent to proliferative states of neural stem cell in the adult brain***

Archana Gengatharan[1], Marina Snapyan[1], Qian Li[1], Magdalena Gotz[2], Armen Saghatelyan[1]

[1]Le Centre de recherche de l'Institut universitaire en santé mentale de Québec, [2]Helmholz Center Munich, Institute Stem Cell Research

2-A -11 ***mTOR pathway role during the development of cortical basket cell innervation is age-dependent***

Clara Amegandjin[1], Mayukh Choudhury[2], Josianne Nunes Carrico[1], Graziella Di Cristo[1]

[1]Université de Montréal, [2]Mcgill

2-A -12 ***Presynaptic and Postsynaptic NMDARs in Refinement of the Developing Visual Circuit***

Philip Kesner[1], Elodie Warren[1], Fan Ma[1], Edward Ruthazer[1]

[1]Montreal Neurological Institute - McGill University

2-A -13 ***ProBDNF and mBDNF signaling underlie distinct activity-dependent processes in visual circuit development***

Elena Kutsarova[1], Martin Munz[2], Anne Schohl[1], Alex Wang[1], Yuan Yuan Zhang[1], Olesia Bilash[1], Carmelia Lee[1], Edward Ruthazer[1]

[1]Montreal Neurological Institute, McGill University, [2]Friedrich Miescher Institute, Neurobiology Group

2-A -14 ***The developmental program in differentiating neurons***

Malvin Jefri[1], Nuwan Hettige[1], Huashan Peng[1], Carl Ernst[1]

[1]McGill University

2-A -15 ***Stressed adolescent mice: The long-term effects of a short-term unpredictable stress on immunity***

Ana Paula de Lima[1], Daniel Sanzio da Cruz[1], Cristina Massoco[1]

[1]University of Sao Paulo

2-A -16 ***Refinement of silent synapses: A revision of the competition hypothesis***

Yumaine Chong[1], Natasha Saviuk[1], Brigitte Pie[1], Nahum Sonenberg[1], A Pejmun Haghighi[2], Ellis Cooper[1]

[1]McGill University, [2]Buck Institute for Research on Aging

2-A -17 ***Arp2/3 Complex Activation is Required for Commissural Axon Chemoattraction by Netrin-1***

Ian Beamish[1], Celina Cheung[1], Karen Lai Wing Sun[1], Ricardo Alchini[1], Alyson Fournier[1], Timothy Kennedy[1]

[1]Montreal Neurological Institute, McGill University

2-A -18 ***Long term effects of early life maternal deprivation and tyrosine receptor kinase B (TrkB) knockdown***

Natalie Prowse[1], Zachary Dwyer[1], Teresa Fortin[1], Amanda Thompson[1], Pragya Shail[1], Shawn Hayley[1]

[1]Carleton University

2-A -19 ***Sema6d drives morphogenesis of the eye***

Paula Cechmanek[1], Sarah McFarlane[1]

[1]University of Calgary

2-A -20 ***Early Exposure to TBECH Alters Motor Behavioural Outcome in Females***

Katrina Zmavc[1], Gregg Tomy[1], Mark Fry[1], Tammy Ivanco[1]

[1]University of Manitoba

B – Neural Excitability, Synapses, and Glia: Cellular Mechanisms

2-B -21 ***Cholinergic neurotransmission in different subregions of the substantia nigra differentially controls DA neuronal excitability and locomotion***

Jasem Estakhr[1], Kaitlyn Frisby[1], J. Michael McIntosh[2], Raad Nashmi[1]

[1]University of Victoria, [2]University of Utah

2-B -22 ***Metabolic (de)coupling and interaction of glucose and lactate metabolites under varying systemic conditions***

Alexandria Béland-Millar[1], Justine Courtemanche[1], Jeremy Larcher[1], Tina Yuan[1], Claude Messier[1]

[1]University of Ottawa

2-B -23 ***"Nanotrees" modulate synaptic plasticity***

Jeff Ji[1], Issan Zhang[1], Philip Chang[1], Shireen Hossain[1], Mark Hancock[1], John Breitner[1], Gerhard Multhaup[1], Rainer Haag[2], R Anne McKinney[1], Dusica Maysinger[1]

[1]McGill University, [2]Freie Universität Berlin

2-B -24 ***L-type voltage gated calcium channels functionally couple with IKCa channels in CA1 pyramidal cells to generate the slow afterhyperpolarization***

Giriraj Sahu[1], Jason Miclat[1], Hadimulya Asmara[1], Gerald Zamponi[1], Ray Turner[1]

[1]University of Calgary

2-B -25 ***Using Computational Modeling to Estimate Synaptic Receptor Densities Along Hippocampal CA1 Interneuron Specific 3 Cell Dendrites***

Alexandre Guet-McCreight[1], Xiao Luo[2], Ruggiero Francavilla[2], Lisa Topolnik[2], Frances Skinner[1]

[1]Krembil Research Institute and University of Toronto, [2]Centre de recherche du CHU de Québec and Université Laval

2-B -26 ***A rat versus mouse comparison of microglia in different activation states: molecular profiles, K+ channels and migration***

Doris Lam[1], Starlee Lively[1], Lyanne Schlichter[1]

[1]Krembil Research Institute

2-B -27 ***Crosstalk Between the Immune and Nervous Systems: How peripheral inflammation can predispose the brain to hyperexcitability***

Tarek Shaker[1], Lionel Carmant[1]

[1]Université de Montréal

2-B -28 ***Differential Effects of Local Aromatase Inhibition on Hippocampal Theta Oscillations in Male and Female Rats***

Chloe Soutar[1], Sarah McLagan[1], Hans Dringenberg[1]

[1]Queen's University

2-B -29 ***The NDR kinase Lats1 controls hippocampal dendritic spine development through the scaffolding protein Angiomotin***

Michael Wigerius[1], Annette Kolar[1], Stefan Krueger[1], James Fawcett[1]

[1]Dalhousie University

2-B -30 ***Isolating the Bulk Endosome from Nerve Terminals***

Linda Miller[1], Laurent Gatto[2], Peter Hains[1], Emma Kettle[3], Lisa Breckels[2], Ross Boadle[3], Kathryn Lilley[2], Phil Robinson[1]

[1]Children's Medical Research Institute, [2]University of Cambridge, [3]The Westmead Institute for Medical Research, The University of Sydney

2-B -31 ***Neural synchronization through electric field effects***

Aaron Shifman[1], John Lewis[1]

[1]University of Ottawa

2-B -32 ***Voltage-gated sodium channel isoform Nav1.5 contributes to Purkinje neuron firing.***

Lois Miraucourt[1], Mark Aurousseau[1], Adamo Mancino[1], Ryan Alexander[1], Derek Bowie[1]

[1]McGill University

2-B -33 ***Balance of excitability is an epileptogenesis factor in traumatized mice***

Sara Soltani[1], Josée Seigneur[1], Sylvain Chauvette[1], Igor Timofeev[1]

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2-B -34 ***Astrocyte Resting Calcium Decrease via Bicarbonate due to External K+ Elevation***

Steven Shin[1], Grant Gordon[1]

[1]University of Calgary

2-B -35 ***Effects of Endogenous Neuropeptides in the Bed Nucleus Stria Terminalis and Changes in Chronic Stress-Induced Anxiety-Like Behaviour***

Catherine Normandeau[1], Ana Paula Ventura Silva[2], Emily Hawken[1], Staci Angelis[1], Calvin Sjaarda[1], Xudong Liu[1], José Miguel Pêgo[2], Eric Dumont[1]

[1]Queen's University, [2]University of Minho

2-B -36 ***Dual imaging of neuron and astrocyte calcium signals in vivo with genetically encoded calcium indicators***

Jillian Stobart[1], Kim David Ferrari[1], Matthew Barrett[1], Chaim Glück[1], Bruno Weber[1]

[1]University of Zurich

2-B -37 ***Action Potential-Induced Calcium Responses Actively Backpropagate in Spinal Cord Lamina I Neurons***

Erika Harding[1], Michael Salter[1]

[1]The Hospital for Sick Children

2-B -38 ***Astrocytes impose a pathway-specific control over synaptic strength diversity in the hippocampus***

Peter Chipman[1], Yukiko Goda[1]

[1]RIKEN Brain Science Institute

2-B -39 ***Plasticity of miniature synaptic transmission revealed by optical imaging of Ca2+ transients in cultured hippocampal neurons.***

Theresa Wiesner[1], Gabriel Nadeau[1], Mado Lemieux[1], Paul De Koninck[1]

[1]Universite Laval

2-B -40 ***AMPAR auxiliary proteins relieve channel block by facilitating polyamine permeation***

Patricia Brown[1], Hugo McGuire[1], Derek Bowie[1]

[1]McGill University

2-B -41 ***Understanding the structural basis of slow NMDA receptor gating***

Patricia Brown[1], Bryan Daniels[1], Mark Aurousseau[1], Maria Musgaard[2], G. Brent Dawe[1], Philip Biggin[2], Derek Bowie[1]

[1]McGill University, [2]University of Oxford

2-B -42 ***Characterization of synaptic proteins expressed in dopaminergic axonal terminals***

Charles Ducrot[1], Marie-Josée Bourque[1], Anne-Sophie Racine[1], Giselle Correa [1], Guillaume Fortin[1], Louis-Eric Trudeau[1]

[1]Université de Montréal

2-B -43 ***Non-canonical cAMP-dependent synaptic potentiation in the paraventricular nucleus of the hypothalamus***

Julia Sunstrum[1], Eric Salter[1], Wataru Inoue[1]

[1]The University of Western Ontario

2-B -44 ***Activity-dependent release of netrin-1 recruits GluA1 AMPA receptors to unsilence excitatory synapses in the adult hippocampus.***

Stephen Glasgow[1], Ian Beamish[1], Simon Labrecque[2], Edwin Wong[1], Lianne Trigiani[1], Julien Gibon[1], Edith Hamel[1], Anne McKinney[3], Paul De Koninck[2], Philippe Séguéla[1], Edward Ruthazer[1], Timothy Kennedy[1]

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2-B -45 ***Regulation of TRPM2 channels by Fyn kinase: Implications for Alzheimer's disease***

Harish Gangadharappa[1], Mathew Johnston[2], Jillian Belrose[3], Fabiana Caetano[4], John MacDonald[2], Michael Jackson[1]

[1]University of Manitoba, [2]University of Western Ontario, [3]Robarts Research Institute. University of Western Ontario, [4]Schulich School of Medicine, University of Western Ontario

2-B -46 ***Investigating hyperexcitability of DRG neurons as a result of alterations in ion homeostasis in EAE.***

Muhammad Saad Yousuf[1], Myung-Chul Noh[1], Kasia Zubkow[1], David Hu[1], John Johnson[1], Gustavo Tenorio[1], Peter Smith[1], Bradley Kerr[1]

[1]University of Alberta

2-B -47 ***The transcriptional regulation of Neuroligin-1 by clock proteins CLOCK and BMAL1***

Lydia Hannou[1], Erika Bélanger-Nelson[2], Emma O'Callaghan[1], Jean-Martin Beaulieu[3], Valérie Mongrain[1]

[1]Université de Montréal, Center for Advanced Research in Sleep Medicine and Research Center, Hôpital , [2]Center for Advanced Research in Sleep Medicine and Research Center, Hôpital du Sacré-C?ur de Montréa, [3] University of Toronto

2-B -48 ***Development of a platform to investigate EAAT transport using the biosensor Cyto-iGluSnFR***

Emma Jones[1], Johannes Benjamin Kacerovsky[1], Yimiao Ou[1], Maylis de Suremain[1], Luis Alarcon Martinez[2], Matthieu Vanni[3], Adriana Di Polo[2], Timothy Murphy[3], Keith Murai[1], Donald van Meyel[1]

[1]Research Institute of MUHC, [2]Dept. of Neuroscience and Centre de Recherche du CHUM, [3]Dept. of Psychiatry, University of British Columbia

2-B -49 ***Features of input hierarchy enacted by a novel, habenula-driven, protracted feed-forward inhibitory circuit in the raphe***

Sean Geddes[1], Michael Lynn[1], Sebastien Maille[1], David Lemelin[1], Richard Bergeron[1], Samir Haj-Dahmane[1], Jean-Claude Beique[1]

[1]University of Ottawa

2-B -50 ***A spike timing-dependent plasticity rule for single, distributed, and clustered dendritic spines***

Sabrina Tazerart[1], Soledad Miranda Rottmann[1], Roberto Araya[1]

[1]University of Montreal

2-B -51 ***Stable Purkinje cell axonal torpedoes in developing and young adult cerebellum***

Daneck Lang-Ouellette[1], Lovisa Ljungberg[1], Angela Yang[1], Pauline De Vanssay De Blavous[1], Misha Virdee[1], Alanna Watt[1]

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2-B -52 ***Retinal astrocytes protect neurons against metabolic stress by inducing the PI3K pathway***

Samih Alqawlaq[1], Izhar Livne-Bar[1], Darren Chan[1], Jeremy Sivak [1]

[1]University of Toronto

2-B -53 ***An a2,3 GABAA receptor synaptic switch associated with the KCC2 deficit in neuropathic pain: a therapeutic opportunity***

Louis-Etienne Lorenzo[1], Antoine Godin[2], Dominic Boudreau[1], Francesco Ferrini[3], Karine Bachand[1], Nicolas Doyon[1], Alfredo Ribeiro-da-Silva[4], Yves De Koninck[1]

[1]Laval University, [2]Physics, [3]University of Turin, [4]McGill University

2-B -54 ***Dopaminergic Modulation of Persistent Activity in the Anterior Cingulate Cortex***

Kevin Lancon[1], Maria Zamfir[1], Steven Cordeiro Matos[1], Philippe Séguéla[1]

[1]McGill University

2-B -55 ***Presynaptic determinants of the heterogeneity in synaptic function at a central synapse***

Adam Fekete[1], Yukihiro Nakamura[2], Yi-Mei Yang[1], David DiGregorio[3], Lu-Yang Wang[1]

[1]The Hospital for Sick Children, [2]Jikei Medical University School of Medicine, [3]Institut Pasteur

2-B -56 ***Mu opioid receptor function and localization in the anterior cingulate cortex***

Maria Zamfir[1], Kevin Lancon[1], Samantha Locke[1], Aliza Ehrlich[1], Brigitte Kieffer[1], Alfredo Ribeiro-da-Silva [1], Philippe Séguéla[1]

[1]McGill University

2-B -57 ***Loss of the molecular brake, step61, connects BDNF-mediated disinhibition to NMDAR potentiation during pathological pain processing within the dorsal horn***

Annemarie Dedek[1], Jian Xu[2], Chaya Kandegadera[1], Amy Silver[1], Eve Tsai[3], Paul Lombroso[2], Michael Hildebrand[1]

[1]Carleton University, [2]Yale University, [3]The Ottawa Health Research Institute

2-B -58 ***Structural Basis of AMPA Receptor Kinetic Regulation by TARPs and CNIHs***

Marika Arsenault[1], Mark Arousseau[1], Derek Bowie[1]

[1]McGill University

2-B -59 ***The dependence of IKCa and Kv7 channels on calcium sensors in activating the slow afterhyperpolarization in CA1 pyramidal neurons***

Jason Miclat[1], Hadhimulya Asmara[1], Giriraj Sahu[1], Charmaine Szalay[1], Gerald Zamponi[1], Ray Turner[1]

[1]University of Calgary

2-B -60 ***Metaplasticity at CA1 synapses by homeostatic control of presynaptic release dynamics***

Cary Soares[1], Kevin Lee[1], Jean-Claude Béïque[1]

[1]University of Ottawa

2-B -61 ***The Translation Repression 4E-BP is Necessary for Cerebellar Long Term Depression***

Natasha Saviuk[1], Yumaine Chong[1], Ellis Cooper[1], Pejmun Haghighi[2]

[1]McGill University, [2]Buck Institute

2-B -62 ***Cortical Astroglial Plasticity in Response to Stress and Antidepressant Treatment***

Stephanie Simard[1], Gianfilippo Coppola[2], Shawn Hayley [1], Natalina Salmaso [1]

[1]Carleton University , [2]Yale Univeristy

2-B -64 ***Molar tooth extraction in adult C57BL/6 male mice alters the expression of the astroglial enzyme glutamine synthetase in the orofacial sensorimotor cortex***

Limor Avivi-Arber[1], Maryam Zanjir[1], Ravid Doron[2], Shiran Shapira[3]

[1]University of Toronto, [2]Department of Education and Psychology, The Open University of Israel, [3]Affiliated to the Sackler Faculty of Medicine, Tel Aviv University

2-B -65 ***Neuronal swelling during spreading depression involves the new Cl- channel, Slc26a11***

Yanqi Liu[1], Brian MacVicar[1]

[1]University of British Columbia

2-B -66 ***The Role of Synapsin II in the Phencyclidine Pre-Clinical Rat Model of Schizophrenia***

Sharon Thomson[1], Ritesh Daya[1], Ashley Bernardo[1], Ram Mishra[1]

[1]McMaster University

C – Disorders of the Nervous System

2-C -67 ***Modelling the Progression of Olfactory Deficits in Alzheimer's Disease using Caenorhabditis elegans***

Mahraz Parvand[1], Tahereh Bozorgmehr[1], Catharine Rankin[1]

[1]University of British Columbia

2-C -68 ***Aged MTHFR mice show increased vulnerability to neurodegeneration and motor impairments after ischemic damage to the sensorimotor cortex***

Joshua Emmerson[1], Nafisa Jadavji[1], Patrice Smith[1]

[1]Carleton University

2-C -69 ***BDNF, Calcium and Homeostatic Plasticity in Cultured Cortical Pyramidal Neurons from the YAC128 Mouse Model of Huntington Disease***

Amy Smith-Dijak[1], James Mackay[1], Lynn Raymond[1]

[1]University of British Columbia

2-C -70 ***Zebrafish models to validate mutations in CAPN1 causing hereditary spastic paraplegia***

Alexandra Lissouba[1], Ziv Gan-Or[2], Meijiang Liao[1], Guy Rouleau[2], Pierre Drapeau[1]

[1]CRCHUM / Université de Montréal, [2]McGill University

2-C -71 ***Absence of evidence supporting the contribution of rare genetic variants in STK32B, PPARGC1A, CTNNA3 as genetic risk factors for Essential Tremor in a cohort of Canadians of European decent.***

Gabrielle Houle[1], Amirthagowri Ambalavanan[1], Jean-François Schmouth[2], Claire Leblond[2], Dan Spiegelman[2], Sandra Laurent[2], Cynthia Bourassa[2], Michel Panisset[3], Sylvain Chouinard[3], Nicolas Dupré[4], Carles Vilariño-Güell[5], Alex Rajput[6], Simon Girard[7], Patrick

[1]McGill University, [2]Montreal Neurological Institute and Hospital, [3]Centre Hospitalier Universitaire de Montréal , [4]Centre Hospitalier Universitaire de Québec, [5]University of British Columbia, [6]University of Saskatchewan, [7]Université du Québec à Chicoutim

2-C -72 ***Protracted post-traumatic neuronal death in the developing hippocampus***

Trevor Balena[1], Yero Saponjian[1], Kevin Staley[1]

[1]Massachusetts General Hospital

2-C -73 ***DNA methylation within the TH gene is associated with cocaine dependence in humans.***

Kathryn Vaillancourt[1], Carl Ernst[1], Gang Chen[1], Alexandre Bramoulle[1], Jean-François Théroux[1], Laura Fiori[1], Gilles Maussion[1], Erin Calipari[2], Benoit Labonté[2], Eric Nestler[2], Deborah Mash[3], Gustavo Turecki[1]

[1]McGill University, [2]Ichan School of Medicine, Mount Sinai Hospital, [3]University of Miami Miller School of Medicine

2-C -74 ***Parkin KO dopamine neurons of the substantia nigra, show altered survival, mitochondrial oxidative phosphorylation and axonal growth.***

Nicolas Giguère[1], Consiglia Pacelli[1], Marie-Josée Bourque[1], Daniel Lévesque[1], David Park[2], Ruth Slack[2]

[1]Université de Montréal, [2]University of Ottawa

2-C -75 ***Investigating the protective effects of mitochondrially targeted telomerase reverse transcriptase on neuronal metabolism under oxidative stress and sensitivity to amyloid-beta.***

Olivia Singh[1]

[1]The University of Western Ontario

2-C -76 ***Patient-like loss-of-function of Glycine Decarboxylase recapitulates glycine encephalopathy in zebrafish***

Raphaelle Riché[1], Eric Samarut[1], Meijiang Liao[1], Pierre Drapeau[1]

[1]CR-CHUM

2-C -77 ***Glial HO-1: A driver of Parkinson-like neurodegeneration in aging mice***

Marisa Cressatti[1], Wei Song[2], Adrienne Liberman[2], Carmela Galindez[2], Hyman Schipper[3]

[1]McGill University, [2]Lady Davis Institute for Medical Research, [3]Lady Davis Institute for Medical Research, McGill University

2-C -78 ***Zebrafish hitch mutants, knockout for glycine receptor alpha 1 subunit, exhibits motor deficits associated with hyperekplexia.***

Eric Samarut[1], Raphaëlle Riché[1], Meijiang Liao[1], Pierre Drapeau[1]

[1]CRCHUM

2-C -79 ***Repairing the Blood Brain Barrier Following Ischemic Stroke: Role of the Wnt/ β-catenin Pathway***

Noëmie Jean LeBlanc[1], Revathy Guruswamy[1], Ayman ElAli[1]

[1]CHUL

2-C -80 ***Vascular endothelial growth factor isoform-B stimulates neurovascular repair by promoting pericytes function after ischemic stroke***

Revathy Guruswamy[1], Noëmie Jean LeBlanc[1], Ayman Eiali[1]

[1]CHUL-Centre Hospitalier de l'Université Laval

2-C -81 ***Increased serotonin and dopamine pallidal innervations in MPTP-intoxicated monkeys***

Dave Gagnon[1], Lara Eid[1], Carl Whissel[1], Thérèse Di Paolo[2], Martin Parent[1]

[1]CR-IUSMQ, [2]CR-CHUL

2-C -82 ***The clinically-available anti-depressant mirtazapine attenuates psychosis and dyskinesia in the 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-lesioned marmoset model of Parkinson's disease***

Imane Frouni[1], Stephen Nuara[2], Nicolas Veyres[3], Cynthia Kwan[4], Mery-Jane Harraka[5], Lamia Sid-Otmane[6], Vaidehi Nafade[2], Jim Gourdon[2], Adjia Hamadjida[7], Philippe Huot[6]

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2-C -83 ***Motor function in 3xTg-AD mice at 16 months of age***

Thalia Garvock-de Montbrun[1], Emre Fertan[1], Richard Brown[1]

[1]Dalhousie University

2-C -84 ***Inactivation of the contralesional motor cortex after unilateral spinal cord injury impedes recovery of hindlimb motor function by preventing plasticity of the ipsilesional cortex.***

Andrew Brown[1], Marina Martinez[1]

[1]Université de Montréal

2-C -85 ***Exercise alters response of reward anticipation in the ventral striatum of subjects with Parkinson's disease***

Matthew Sacheli[1], Danielle Murray[1], Nasim Vafai[1], Elham Shahinfard[1], Mariya Cherkasova[2], Katie Dinelle[1], Nicole Neilson[1], Jess McKenzie[1], Silke Appel-Cresswell[1], Martin McKeown[1], Vesna Sossi[1], A. Jon Stoessl[1]

[1]Pacific Parkinson's Research Centre, Djavad Mowafaghian Centre for Brain Health, University of Briti, [2]Pacific Parkinson's Research Centre, Djavad Mowafaghian Centre for Brain Health, University of Brit

2-C -86 ***Factors that impair remyelination in the ageing central nervous system.***

Khalil Rawji[1], Nathan Michaels[1], Janson Kappen[1], Weiwen Tang[1], Manoj Mishra[1], Michael Keough[1], V. Wee Yong[1]

[1]Hotchkiss Brain Institute, University of Calgary

2-C -87 ***Shifting Cell Fate in the Midbrain: Implications for Development and Disease***

Scott Bell[1], Liam Crapper[1], Huashan Peng[1], Carl Ernst[1]

[1]McGill University

2-C -88 ***Visual cortical network mapping following partial optic nerve injury***

Marianne Groleau[1], Mojtaba Nazari[2], Matthieu P. Vanni[3], Bernhard A. Sabel[4], Majid Mohajerani[5], Elvire Vaucher[1]

[1]Universite de Montreal, [2]University of Lethbridge, [3]University of British Columbia, [4]Otto-v.-Guericke University of Magdeburg, [5]Department of Neuroscience, Canadian Centre for Behavioural Neuroscience

2-C -89 ***Epigenetic impacts of stress priming of the neuroinflammatory response to sarin surrogate in mice: a model of Gulf War Illness***

David Ashbrook[1], Benjamin Hing[2], Lisa Shao[1], Wilfred De Vega[1], Gordon Broderick[3], James O'Callaghan[4], Patrick McGowan[1]

[1]University of Toronto, Scarborough, [2]The University of Iowa, [3]Nova Southeastern University, [4]Centers for Disease Control and Prevention

2-C -90 ***A role for brain pericytes in revascularization after stroke revealed by a novel reporter mouse.***

Louis-Philippe Bernier[1], Jasmin Hefendehl[1], Coral-Ann Lewis[1], Wilder Scott[1], Lasse Dissing-Olesen[1], Fabio Rossi[1], Micheal Underhill[1], Brian MacVicar[1]

[1]University of British Columbia

2-C -91 ***Behavioural Investigations of Parkinson's Disease Associated Genes in Caenorhabditis elegans***

Dawson Born[1], Mahraz Parvand[1], Sara Knauft[1], Catharine Rankin[1]

[1]University of British Columbia

2-C -92 ***Identification of a pharmacological suppressor of pathological axon degeneration that that acts by preserving mitochondria***

Adelaida Kolaj[1], Konstantin Feinberg[1], Chen Wu[2], Natalie Grinshtein[1], Jonathan Krieger[1], Michael Moran[1], Lee Rubin[1], Freda Miller[1], David Kaplan[1]

[1]The Hospital for Sick Children, [2]Harvard University

2-C -93 ***Proof of Concept: CRISPR-Cas9 Lipid Nanoparticles as an Efficient Delivery Tool for Cultured Cells and in Animal Models***

Peter Johnson[1], Anitha Thomas[1], Rebecca De Souza[1], Ian Backstorm[1], Andrew Brown[1], Eric Ouellet[1], Shyam Garg[1], Keara Marshall[1], Shannon Chang[1], Timothy Leaver[1], Andre Wild[1], Peter Deng[2], Kyle Fink[2], David Segal[2], Jan Nolta[2], James Taylor[1], Euan Ramsay[1]

[1]Precision NanoSystems Inc., [2]University of California, Davis

2-C -94 ***Detecting intraneuronal Aβ in the human hippocampus by super-resolution microscopy***

Lindsay Welikovitch[1], Sonia Do Carmo[1], A. Claudio Cuello[1]

[1]McGill University

2-C -95 ***Motor-Unit Specific Alterations of Synaptic Plasticity at the NMJ and Neuromuscular Function in an ALS Mouse Model***

Elsa Tremblay[1], Richard Robitaille[1]

[1]Université de Montréal

2-C -96 ***Altered neural complexity in Schizophrenia: Combined insights from resting-state MEG and machine learning***

Golnoush Alamian[1], Thomas Thiery[1], Dmitrii Altukhov[2], Veronique Martel[1], Laura Whitlow[3], James Walters [3], Krish Singh[3], Karim Jerbi[1]

[1]Université de Montréal, [2]Moscow State Pedagogical University, [3]Cardiff University

2-C -97 ***Effects of developmental ethanol exposure on the physiology and morphology of medial prefrontal layer VI neurons in young postnatal and adolescent mice.***

Emma Louth[1], Charles Sutton[1], Laura Spatafora[1], Craig Bailey[1]

[1]University of Guelph

2-C -98 ***MNK1 Inhibition Is Neuroprotective Against MAPK-Mediated Injury Via eIF4E Dependent Translation***

Alessandra Tuccitto[1], Xiaoxin Guo[2], Jeremy Sivak[3]

[1]University of Toronto, [2]University Health Network, [3]University of Toronto, University Health Network

2-C -99 ***A Rat Model of Hyperphosphorylated Human Tau in the Locus Coeruleus: Capturing the Initiating Pathological Progression of Sporadic Alzheimer's Disease as Proposed by Braak***

Bandhan Mukherjee[1], Samantha Major Major[1], Susan Walling[1], Gerard Martin[1], Qi Yuan[1], Carolyn Harley[1]

[1]Memorial University

2-C -100 ***Role of TRPM7 in glioblastoma cellular functions***

Raymond Wong[1], Ekaterina Turlova[1], Zhong Ping Feng[1], James Rutka[1], Hong Shuo Sun[1]

[1]University of Toronto

2-C -101 ***Human neurons and astrocytes express NKG2D ligands and are susceptible to NKG2D-mediated killing***

Ana Carmena[1], Laurine Legroux[1], Elie Haddad[2], Alexandre Prat[1], Nathalie Arbour[1]

[1]CRCHUM, Université de Montréal, [2]CHU Sainte-Justine Research Center, Université de Montréal

2-C -102 ***Emotion recognition in pediatric brain tumor patients: viewing patterns and white matter structure***

Iska Moxon-Emre[1], Eric Bouffet[2], Suzanne Laughlin[2], Jovanka Skocic[2], Cynthia de Medeiros[2], Donald Mabbott[1]

[1]Hospital for Sick Children & University of Toronto, [2]Hospital for Sick Children

2-C -103 ***Limbic grey matter alterations in patients with trigeminal neuralgia***

Ariel Lin[1], Mojgan Hodaie[2], Dave Hayes[1]

[1]Union College, [2]Krembil Research Institute, Toronto Western Hospital, University of Toronto

2-C -104 ***Reduction of the cholinergic innervation of the subthalamic nucleus in Parkinson's disease***

Maya Chebl[1], André Parent[2], Martin Parent[1]

[1]Centre de Recherche de l'Institut Universitaire en Santé Mentale de Québec (CRIUSMQ), [2]Centre de recherche de l'institut universitaire en santé mentale de Quebec

2-C -105 ***Diffusion-Weighted MRI Identifies Brain Regions Affected by Spreading Depression during Fatal Seizures***

Stuart Cain[1], Barry Bohnet[1], Andrew Yung[1], Piotr Kozlowski[1], Terrance Snutch[1]

[1]University of British Columbia

2-C -106 ***Impact of aging in the evaluation of neuroprotection and immunomodulation of the enteric nervous system in the MPTP mouse model of Parkinson's disease***

Martina Pinto[1], Andrée-Anne Poirier[1], Mélissa Côté[2], Thérèse Di Paolo[1], Denis Soulet[1]

[1]Laval University, [2]Centre de recherche du CHU de Québec (CHUL)

2-C -107 ***Characterization of a Non-Human Primate Model of Alzheimer's Disease***

Susan Boehnke[1], Robert Wither[1], Joseph Nashed[1], Ann Lablans[1], Brian Coe[1], Andrew Winterborn[1], Sergio Ferreira[2], Douglas Cook[1], Ron Levy[1], Fernanda De Felice[2], Douglas Munoz[1]

[1]Queen's University, [2]Federal University of Rio de Janeiro

2-C -108 ***Expression and proteomic analyses of kif1a/25b in hereditary sensory and autonomic neuropathies type II***

Sadaf Mohtashami[1], Jean Francois Schmouth[1], Ptrick Dion[1], Guy Rouleau[1]

[1]Montreal neurological institute

2-C -109 ***Precocious myelination in a mouse model of autism***

Ning Cheng[1], Maryam Khanbabaei[1], Elizabeth Hughes[1], Kartikeya Murari[1], Jong Rho[1]

[1]University of Calgary

2-C -110 ***The effectiveness of the Anti-CD11d treatment is reduced in rat models of spinal cord injury that produce significant levels of intraspinal hemorrhage***

Nicole Geremia[1], Todd Hryciw[1], Feng Bao[1], Femke Streijger[2], Elena Okon[2], Jae Lee[2], Lynne Weaver[1], Greg Dekaban[1], Brian Kwon[2], Arthur Brown[1]

[1]Western University , [2]ICORD

2-C -111 ***Sex Matters: Repetitive Mild Traumatic Brain Injuries are Associated with Behavioural, Epigenetic, and Structural Changes in Adolescent Rats***

David Wright[1], Sandy Shultz[1], Richelle Mychasiuk[2]

[1]The Florey Institute of Neuroscience and Mental Health, [2]Alberta Children?s Hospital Research Institute

2-C -112 ***Decreased mitochondrial cyclic AMP response element-binding protein (CREB) level in the cortex of 3xTg mice coincide with mitochondrial impairment***

Jelena Dordevic[1], Wanda Snow[2], Claudia Perez[3], Chris Cadonic[3], Benedict Albensi[1]

[1]University of Manitoba, [2]St. Boniface Hospital Research , [3]St. Boniface Hospital Research

2-C -113 ***Altered Intrinsic firing of Purkinje Cells in a mouse model of ARSACS***

Brenda Toscano[1], Visou Ady[1], Moushumi Nah[1], Philip Chang[1], Jeanette Hui[1], Anne Mckinney[1], Alanna Watt[1]

[1]McGill University

2-C -114 ***Striatal histone acetylation is modulated by dopamine depletion in the MPTP-induced mouse model of Parkinson's disease.***

Guillaume Lemieux[1], Élise Pepin[1], Geneviève Bureau[1], Laure Chagniel[1], Michel Cyr[1]

[1]UQTR

2-C -115 ***Alterations to the NGF metabolic cascade in human AD and MCI***

Rowan Pentz[1], Florencia Iulita[2], Claudio Cuello[1]

[1]McGill University, [2]Université de Montreal

2-C -116 ***Effects of aerobic exercise on neuroplasticity in subjects with neurological diseases: a systematic review***

Larissa Aguiar[1], Sylvie Nadeau[2], Lívia Cristina Caetano[3], Marluce Basílio[3], Aline Scianni[3], Luci Teixeira-Salmela[3], Christina Danielli Faria[3]

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2-C -117 ***RHBDL4-mediated APP processing - novel insights into APP physiology?***

Sandra Paschkowsky[1], Lisa Munter[1]

[1]McGill University

2-C -118 ***Investigating the impact of midlife obesity on Alzheimer's disease pathology***

Colleen Rollins[1], Daniel Gallino[2], Vincent Kong [1], M. Mallar Chakravarty [1]

[1]McGill University; Douglas Mental Health University Institute , [2]Douglas Mental Health University Institute

2-C -119 ***Investigating the role of MYO9B in cortical GABAergic interneuron development in epileptic encephalopathies***

Praveen Raju P[1], Lydia Marcoux[1], Lara Eid[1], Alexis Lupien-Meilleur[1], Mathieu Lachance[1], Elsa Rossignol[1]

[1]Centre de Recherche, CHU Sainte-Justine, Universite de Montreal

2-C -120 ***TrkA as a pharmacological target to modulate memory formation***

Iulia Pirvulescu[1], Sylvia Josephy-Hernandez[1], Uri Saragovi[1]

[1]McGill University

2-C -121 ***Sex-Specific Transcriptional Signatures in Human Depression***

Benoit Labonte[1], Olivia Engmann[2], Immanuel Purushothaman[2], Caroline Ménard[2], Junshi Wang[3], Chunfeng Tan[4], Joseph Scarpa[2], Gregory Moy[2], Eddie Loh[2], Michael Cahill[2], Zach Lorsch[2], Peter Hamilton[2], Erin Calipari[2], Georgia Hodes[2], Orna Issler[2], Hope Kronman[2]

[1]Laval University, [2]Icahn School of Medicine at Mount Sinai, [3]University of Pittsburg, [4]The University of Texas Southwestern Medical Center, [5]University of Pittsburgh, [6]Massachusetts Institute of Technology, [7]The University of Texas Southwestern Medical C

2-C -122 ***High-throughput behavioural characterization and precise structure-function analysis of genes and gene variants associated with Autism Spectrum Disorder***

Troy McDiarmid[1], Kurt Haas[1], Catharine Rankin[1]

[1]Univerisity of British Columbia

2-C -123 ***Functional validation of CACNA1A de novo variants associated with epileptic encephalopathy***

Xiao Jiang[1]

[1]CHU Sainte-Justine Research Centre

2-C -124 ***Restoration of hippocampal neural precursor function by ablation of senescent cells in the aged stem cell niche***

Michael Fatt[1], Lina Tran[1], Gisella Vetere[1], Mekayla Storer[1], Freda Miller[1], Paul Frankland[1], David Kaplan[1]

[1]Hospital for Sick Children

2-C -125 ***Somatostatin protects blood brain barrier from beta-amyloid induced toxicity***

Seungil Paik[1], Rishi Somvanshi[1], Michael Heer[1], Ujendra Kumar[1]

[1]The University of British Columbia

2-C -126 ***Effect of the cholesteryl ester transfer protein on neural lipid distribution and amyloid-beta generation***

Felix Oestereich[1], Elizabeth-Ann Kranjec[2], Sijin Lu[1], Hanyi Yu[1], Pierre Chaurand[3], Lisa Munter[1]

[1]McGill University , [2]Université de Montreal, [3]Universite de Montreal

2-C -127 ***Prolonged high-fat diet worsens acute post-stroke recovery following a small focal ischemic stroke.***

Kathleen Fifield[1], Michiru Hirasawa[1], Jacqueline Vanderluit[1]

[1]Memorial University of Newfoundland

2-C -128 ***GABAergic Innervation of Adult-Generated Neurons in the Post-Stroke Cortex***

Timal Kannangara[1], Anthony Carter[1], Jean-Claude Béïque[1], Diane Lagace[1]

[1]University of Ottawa

2-C -129 ***Inhibiting GABA-A receptors to rescue synaptic plasticity after mild traumatic brain injury***

Shahin Khodaei[1], Nathan Chan[1], Alejandro Fernandez-Escobar[1], Dianshi Wang[1], Beverley Orser[2], Sinziana Avramescu[2]

[1]University of Toronto, [2]University of Toronto; Sunnybrook Health Sciences Centre

2-C -130 ***Stress induced high frequency/theta cross frequency coupling after post traumatic epilepsy is blocked by CRF receptor antagonism***

Chakravarthi Narla[1], Paul Jung[1], Francisco Bautista-Cruz[1], Michelle Everest[1], Julio Martinez-Trujillo[1], Michael Poulter[1]

[1]Robarts Research Institute

2-C -131 ***Role of Swelling-induced Chloride Current in Hypoxic-Ischemic Brain Injury***

Feiya Li[1], Ahmed Abussaud[1], Raymond Wong[1], Baofeng Xu[1], Sammen Huang[1], Guan-Lei Wang[2], Zhong-Ping Feng[1], Hong-Shuo Sun[1]

[1]University of Toronto, [2]ZhongShan School of Medicine, Sun Yat-Sen University

2-C -132 ***Small molecule stabilization of 14-3-3 protein-protein interactions stimulates axon regeneration***

Andrew Kaplan[1], Barbara Morquette[1], Antje Kroner[1], SooYuen Leong[1], Carolin Madwar[1], Ricardo Sanz[1], Sara Banerjee[2], Jack Antel[1], Nicolas Bisson[2], Samuel David[1], Alyson Fournier[1]

[1]McGill University, [2]Laval University

2-C -134 ***Melatonin and Subjective Measures of Biological Rhythms in Women at Risk for Postpartum Depression: Preliminary Results***

Anastasiya Slyepchenko[1], Benicio Frey[1]

[1]St Joseph's Healthcare Hamilton/McMaster University

2-C -135 ***Role of MMP-9 in schizophrenia-like behaviors in rodents***

behnam vafadari[1], Ieszek kaczmarek[1]

[1]Nencki institute of experimental biology

2-C -136 ***Generation of a Pten hamartoma tumour syndrome animal model in the CNS, and therapeutic testing***

Nobuhiko Tachibana[1], Robert Cantrup[1], Rajiv Dixit[2], Lata Adnani[1], Yacine Touahri[2], Tooka Aavani[2], Kurek Kyle[1], Rachel Wong[3], Cairine Logan[1], Carol Schuurmans[2]

[1]University of Calgary, [2]Sunnybrook Research Institute, [3]University of Washington

D – Sensory and Motor Systems

2-D -137 ***Phantosmia and Phantogeusia Cooccurence***

Laila Ahmed[1], Alan Hirsch[2]

[1]St James School of Medicine, [2] The Smell and Taste Research & Treatment Foundation

2-D -138 ***Neurogenetics of modulatory cholinergic signaling in C. elegans interneurons***

Marie-Hélène Ouellette[1], Michael Hendricks[1]

[1]McGill University

2-D -139 ***Where are my whiskers?***

Michaël ELBAZ[1], Martin Deschênes[1], Christian Ethier[1]

[1]Université Laval

2-D -140 ***Separate Neural Correlates for Spatial and Temporal Gait Control: Evidence from Split-Belt Treadmill Adaptation***

Dorelle Hinton[1], David Conradsson[1], Caroline Paquette[1]

[1]McGill University

2-D -141 ***Modulation of long-latency afferent inhibition by the sensory afferent volley***

Claudia Turco[1], Jenin El-Sayes[1], Hunter Fassett[1], Robert Chen[2], Aimee Nelson[1]

[1]McMaster University, [2]University Health Network

2-D -142 ***Genetic dissection of the spinal locomotor circuit in DSCAM mutant mice***

Louise Thiry[1], Frédéric Bretzner[1]

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2-D -143 ***Action related beta activity in pre-motor cortex during action observation***

Lucie Luneau[1], Sylvain Baillet[2], John Francis Kalaska[1]

[1]Université de Montréal, [2]McGill University

2-D -144 ***Spatiotemporal mapping of spontaneous activity in GCaMP6 mice reveals new anatomo-functional boundaries, symmetries and pinwheels of cortical dynamics.***

Matthieu Vanni[1], Allen Chan[1], Matilde Balbi[1], Gergely Silasi[1], Tim Murphy[1]

[1]UBC

2-D -145 ***Spike initiation properties of mechanosensory afferents***

Dhekra Al-Basha[1], Steve Prescott[1]

[1]The Hospital for Sick Children and The University of Toronto

2-D -146 ***Plasticity at the synapse between vestibular afferents and central neurons is rapidly offset by the enhancement of local inhibitory pathways: Implications for vestibular prosthetic devices***

Diana Mitchell[1], Charles Della Santina[2], Kathleen Cullen[1]

[1]McGill University, [2]Johns Hopkins University

2-D -147 ***Differential receptive field center-surround organizations give rise to similar levels of neural correlations in three parallel sensory maps in the weakly electric fish Apteronotus leptorhynchus***

Volker Hofmann[1], Maurice Chacron[1]

[1]McGill University

2-D -148 ***Toll-like receptor 4 (TLR4) activation in medullary dorsal horn mediates nociceptive responses in rat inflammatory dental pain model***

Helena Filippini[1], Graziella Molska[1], Limor Avivi-Arber[1], Yamini Arudchelvan[1], Siew-Ging Gong[1], Maria Campos[2], Barry Sessle[1]

[1]University of Toronto, [2]Pontifíca Universidade Católica do Rio Grande do Sul

2-D -149 ***Modulation of the mouse primary visual cortex neuronal activity by the lateral posterior nucleus***

Umit Keysan[1], Christian Casanova[1]

[1]Université de Montréal - Casanova Lab

2-D -150 ***The computation of unexpected self-motion by the primate cerebellum: evidence for an internal model that accounts for gravity***

Isabelle Mackrous[1], Jérôme Carriot[2], Kathleen Cullen[1]

[1]McGill University, [2]University of Western Ontario

2-D -151 ***The impact of primary motor cortex (M1) inactivation on neural activity of the ipsi and contralesional ventral premotor cortex during a reach-to-grasp task***

Ian Moreau-Debord[1], Eleonore Serrano[1], Stephan Quessy[1], Numa Dancause[1]

[1]Universite de Montreal

2-D -152 ***Intra and interhemispheric modulation of primary motor cortex outputs by the supplementary motor area in capuchin monkeys (Cebus apella)***

Sandrine Côté[1], Adjia Hamadjida[1], Melvin Dea[1], Stephan Quessy[1], Numa Dancause[1]

[1]Université de Montréal

2-D -153 ***Anatomical characterization of D1 and D2 dopaminergic receptors in the larval zebrafish forebrain***

Vernie Aguda[1], Indira Riadi[1], Helen Chasiotis[1], Tod Thiele[1]

[1]University of Toronto

2-D -154 ***Dendritic epidermal T cell control of inflammatory pain***

Jelena Petrovic[1], Nader Ghasemlou[1]

[1]Queen's University

2-D -155 ***Chemogenetic inflammatory sensitization of peripheral nociceptors***

Hazim Alkhani[1], Ariel Ase[1], Philippe Séguéla[1]

[1]McGill University

2-D -156 ***Parvalbumin expression in inhibitory neurons of the spinal cord prevents touch inputs from activating nociceptive pathways.***

Hugues Petitjean[1], Tarheen Fatima[1], Albena Davidova[1], Reza Sharif-Naeini[1]

[1]McGill University

2-D -157 ***Characteristics of neural activity in the subthalamic nucleus during unobstructed and visually guided locomotion in the intact, awake cat.***

Nabiha Yahiaoui[1], Yannick Mullie[1], Trevor Drew[1]

[1]Université de Montreal

2-D -158 ***The delay of the BOLD fMRI signal does tell you something about neurons***

Sébastien Proulx[1], Reza Farivar[1]

[1]McGill

2-D -159 ***Dopaminergic modulation of olfactomotor transformations in lampreys.***

Philippe-Antoine Beausejour[1], Gheylen Daghfous[1], Francois Auclair[1], Barbara Zielinski[2], Rejean Dubuc[1]

[1]Universite de Montreal, [2]University of Windsor

2-D -160 ***Two-photon calcium imaging defines population encoding of vibrotactile information within excitatory and inhibitory networks of the limb associated mouse somatosensory cortex***

Mischa Bandet[1], Bin Dong[1], Ian Winship[1]

[1]University of Alberta

2-D -161 ***Motion parallax in electric sensing***

John Lewis[1], Federico Pedraja[2], Volker Hofmann[2], Kathleen Lucas[1], Colleen Young[1], Jacob Engelmann[2]

[1]University of Ottawa, [2]Bielefeld University

2-D -162 ***Mutant TDP-43 and pseudophosphorylation of tau protein in cholinergic neurons causes social impairments in rats***

Niveen Fulcher[1], Cleusa De Oliveira[1], Alexander Moszczynski[1], Madeline Harvey[1], Kathryn Volkening[1], Patrick McCunn[1], Robert Bartha[1], Michael Strong[1], Susanne Schmid[1]

[1]University of Western Ontario

2-D -163 ***Comparing the pattern of interhemispheric interactions of the tentative premotor area in rats to the dorsal and ventral premotor cortex in monkeys***

Boris Touvykine[1], Sandrine Coté[1], Stephan Quessy[1], Numa Dancause[1]

[1]Université de Montréal

2-D -164 ***Catecholaminergic influences on auditory learning in songbirds***

Yining Chen[1], Jennifer Dai[1], Jon Sakata[1]

[1]McGill University

2-D -165 ***Neural correlates of hindlimb obstacle memory revealed via chronic microelectrode array recordings in parietal area 5 of walking cats***

Carmen Wong[1], Stephen Lomber[1]

[1]The University of Western Ontario

2-D -166 ***Eye-head-hand coordination during reaching in head unrestrained Rhesus monkeys.***

Harbandhan Arora[1], Vishal Bharmauria[1], Xiaogang Yan[1], Hongying Wang[1], Saihong Sun[1], John Douglas Crawford[1]

[1]York University

2-D -167 ***Neural Correlate of Muscle Co-contraction***

Saeed Babadi[1], Shahabeddin Vahdat[2], Theodore Milner[1]

[1]McGill University, [2]Stanford University

E – Homeostatic and Neuroendocrine Systems

2-E -168 ***The pro-inflammatory cytokine Tumour Necrosis Factor alpha excites Subfornical Organ neurons***

Nick Simpson[1], Alastair Ferguson[1]

[1]Queen's University

2-E -169 ***Hydrogen sulfide hyperpolarizes Area Postrema neurons to decrease blood pressure in rats***

Susan Wang[1], Pauline Smith[1], Alastair Ferguson[1]

[1]Queen's University

2-E -170 ***Maternal programming of offspring energy mobilization and thyroid hormones***

Sophie St-Cyr[1], Sameera Abuaish[1], Patrick McGowan[1]

[1]University of Toronto

2-E -171 ***Characterization of dissociated catecholamine-containing GFP-expressing area postrema neurons and their response to GLP-1.***

Samantha Lee[1], Lauren Shute[1], Mark Fry[1]

[1]University of Manitoba

2-E -172 ***Sustained Peripheral Inflammation Triggers Central Anandamide Hydrolysis to Promote Anxiety***

Haley Vecchiarelli[1], Kaitlyn Tan[1], Maria Morena[1], Martin Sticht[1], Catherine Keenan[1], Winnie Ho[1], Keith Sharkey[1], Matthew Hill[1]

[1]University of Calgary

2-E -173 ***Molecular phenotype of temperature and pressure sensitive neurons in the Organum Vasculosum Lamina Terminalis (OVLT)***

Charles Bourque[1], Claire Gizowski[1], Eric Trudel[1], Cristian Zaelzer[1]

[1]Research Institute of McGill University Health Centre

2-E -174 ***Homeostatic synaptic plasticity in stress circuits***

Neil Rasiah[1], Nuria Daviu[1], Toni-Lee Sterley[1], Jaideep Bains[1]

[1]University of Calgary

F – Cognition and Behaviour

2-F -175 ***Impact of Vipassana meditation on occipital sleep spindles during a daytime nap and on performance on a procedural memory task***

Simon Dubé[1], Elizaveta Solomonova[2], Cloé Blanchette-Carrière[2], Arnaud Samson-Richer[2], Tyna Paquette[3], Tore Nielsen[2]

[1]Concordia University, [2]Université de Montréal, [3]Dream and Nightmare Laboratory

2-F -176 ***Using Eye Movements to Establish a Normative Database of Control Subjects Across the Lifespan***

Matthew Smorenburg[1], Rachel Yep[1], Brian Coe[1], Donald Brien[1], Douglas Munoz[1]

[1]Queen's University

2-F -177 ***Deletion of Atrx in the mouse forebrain results in decreased anxiety and impaired learning and memory***

Renee Tamming[1], Yan Jiang[1], Nathalie Berube[1]

[1]Western University

2-F -178 ***Investigation of nitric oxide-dependent mechanisms of cocaine-induced place preference and mu opioid receptor expression***

Karson Theriault[1], Bettina Kalisch[1], Francesco Leri[1]

[1]University of Guelph

2-F -179 ***A systematic review on hyperlexia and its relation to autistic neurocognition***

Alexia Ostrolenk[1], Patricia Jelenic[2], Fabienne Samson[2], Baudouin Forgeot d'Arc[1], Laurent Mottron[1]

[1]Université de Montréal, [2]Hôpital Rivière-des-Prairies

2-F -180 ***Negative Effects of Noise during Gestation on Spatial Learning and Recognition Memory in Mouse***

Zahra Jafari[1], Bryan Kolb[1], Majid Mohajerani[1]

[1]University of Lethbridge

2-F -182 ***The effect of peripheral nerve injury on depression and anxiety-like behaviours in mice***

Erinn Acland[1]

[1]University of Toronto

2-F -183 ***The basal ganglia control the urgency of a reach choice, but not the choice itself***

David Thura[1], Paul Cisek[1]

[1]University of Montreal

2-F -184 ***Cognitive Function in Varsity Football Athletes is Maintained in the Absence of Concussion***

Danielle Brewer-Deluce[1], Timothy Wilson[1], Adrian Owen[1]

[1]University of Western Ontario

2-F -185 ***Less is more: high self-controllers rely less on the dorsolateral prefrontal cortex to suppress food craving***

Jung Eun Han[1], Uku Vainik[1], Jennifer Guan[1], Alain Dagher[1]

[1]Montreal Neurological Institute/McGill University

2-F -186 ***Differential effects of ventral hippocampal CA1 and CA3 inactivation on learned approach-avoidance decision making in rats***

Anett Schumacher[1], Franz Villaruel[1], Rutsuko Ito[1]

[1]University of Toronto

2-F -187 ***Mesoscale imaging of cortical activity dynamics during REM-like sleep***

Mojtaba Nazari[1], Javad Karimi[1], Masami Tatsuno[1], Majid Mohajerani[1]

[1]University of Lethbridge***2-F -188 Subjective value for high calorie snack foods relates to weight gain in the first year students***

Selin Neseliler[1], Kevin Larcher[1], Alain Dagher[1]

[1]McGill

2-F -189 ***Acute restraint stress transiently impairs, and subsequently facilitates, performance in Paired Associates Learning assessed in rats using touchscreen-equipped operant conditioning chambers***

Andrew Roebuck[1], Brittney Lins[1], Gavin Scott[1], John Howland[1]

[1]University of Saskatchewan

2-F -190 ***Germ-free mice colonized with GAD microbiota exhibit anxiety-like behaviour and altered BDNF expression, but this change is attenuated with Infliximab treatment***

Elizabeth Perez Guzman[1], Rebecca Anglin[1], Giada De Palma[1], Ryan Potts[1], Jun Lu[1], Merwa Amber[1], Elena Verdu[1], Stephen Collins[2], Michael Bailey[3], Ning Quan[3], Michael Surette[1], Premysl Bercik[1]

[1]McMaster University, [2]Year, [3]Ohio State University

2-F -191 ***Changes in Women's Performance on the RAVLT Over Time Post-Oophorectomy***

Rebekah Reuben[1], April Au[1], Elizabeth Hampson[2], Mary Tierney[3], Steven Narod[4], Marcus Bernardini[1], Gillian Einstein[1]

[1]University of Toronto, [2]University of Western Ontario, [3]Sunnybrook Health Sciences Centre, [4]Women's College Hospital

2-F -192 ***The role of the hippocampus in goal-directed navigation***

Adrian Duszkiewicz[1], Janine Rossato[2], Andrea Moreno[3], Tomonori Takeuchi[4], Santiago Canals[3], Richard Morris[4]

[1]McGill University, [2]Federal University of Rio Grande do Norte, [3]Instituto de Neurociencias, CSIC–UMH, [4]University of Edinburgh

2-F -193 ***Estimating the frequency of Automated Symbolic Orienting using a trial-by-trial analysis***

Francesca Capozzi[1], Christopher Blair[1], Jelena Ristic[1]

[1]McGill University

2-F -194 ***Modulation of Arc expression in the olfactory bulb by social preference***

Chelsey Damphousse[1], Eden Kleinhandler[1], Noam Miller[1], Diano Marrone[1]

[1]Wilfrid Laurier University

2-F -195 ***Blockade of T-type calcium channels reduces conditioned fear in an animal model of absence epilepsy***

Wendie Marks[1], Nadine Zabder[1], Quentin Greba[1], Stuart Cain[2], Terrance Snutch[2], John Howland[1]

[1]University of Saskatchewan, [2]University of British Columbia

2-F -196 ***Proprioception calibrates object size constancy for grasping but not perception in limited viewing conditions***

Juan Chen[1], Irene Sperandio[2], Melvyn Goodale[1]

[1]Western University, [2]University of East Anglia

2-F -197 ***Target presence affects the eye movement kinematics and behaviour of non-human primates in virtual navigation tasks***

Ben Corrigan[1], Roberto Gulli[2], Guillaume Doucet[2], Julio Martinez-Trujillo[1]

[1]University of Western Ontario, [2]McGill University

2-F -198 ***Effects of exposure to an ecologically relevant toxicant mixture during pregnancy on hippocampal volumes in post-partum rat dam brains***

Lydia Jeong[1], Amanda Nitschke[1], Anne Konkle[1]

[1]University of Ottawa

2-F -199 ***The effect of Neuroligin 2 absence on sleep architecture and EEG activity in mice***

Bong Soo Seok[1], Erika Bélanger-Nelson[2], Chloé Provost[2], Valérie Mongrain[1]

[1]Université de Montréal; Research Center and Center for Advanced Research in Sleep Medicine, Hôpital , [2]Research Center and Center for Advanced Research in Sleep Medicine, Hôpital du Sacré-Coeur de Montré

2-F -200 ***Increased incentive motivation for cocaine is linked to heightened cocaine-induced gene regulation in frontostriatal brain regions***

Ellie-Anna Minogianis[1], Anne-Noël Samaha[1]

[1]Université de Montréal

2-F -201 ***Identification of an inhibitory hippocampal-thalamic pathway that mediates remote memory retrieval***

Gisella Vetere[1], Frances Xia[1], Sheena Josselyn[1], Paul Frankland[1]

[1]Hospital for Sick Children

2-F -202 ***FXR1P limits long-term memory, perseverative behavior and L-LTP by regulating GluA2.***

Gael Quesseveur[1], Erin Nuro[1], Denise Cook[1], Haider Altimimi[1], David Stellwagen[1], Keith Murai[1]

[1]McGill University

2-F -203 ***Comparing the Neural Correlates of Mental Flexibility in Children with Neurodevelopmental Disorders: an MEG Investigation***

Alexandra Mogadam[1], Paul Arnold[2], Russell Schachar[3], Margot Taylor[4], Jason Lerch[5], Evdokia Anagnostou[6], Elizabeth Pang[4]

[1]University of Toronto, [2]University of Calgary, [3]Hospital for Sick Children , [4]Hospital for Sick Children, [5]SickKids Research Institute, [6]Holland Bloorview Kids Rehabilitation Hospital

2-F -204 ***Muscarinic M1 receptor modulation of prefrontal cortical activity in monkeys during antisaccade performance***

Susheel Vijayraghavan[1], Alex Major[1], Stefan Everling[1]

[1]University of Western Ontario

2-F -205 ***Extra-hippocampal contributions to associative memory retrieval***

Kirk Geier[1], Claire Lung[1], Rosanna Olsen[1]

[1]Rotman Research Institute/ Baycrest Hospital

2-F -206 ***Representational similarity analysis reveals similarity between subjects in movie viewing using MEG***

Yiran Chen[1], Elizabeth Bock[1], Sylvain Baillet[1], Reza Farivar[1]

[1]McGill University

2-F -207 ***Effects of catecholamines on motivation in macaque monkeys***

Mavis Kusi[1], Lindsey Thurston[1], Catherine Crandell[1], Martin Paré[1]

[1]Queen's University

2-F -208 ***Cognitive and non-cognitive phenotypes in the 5xFAD mouse model of Alzheimer's Disease***

Wai-Jane Lee [1], Flavio Beraldo[1], Matthew Cowan [2], Boyer Winters[3], Vania Prado [2], Marco Prado [1]

[1]Robarts Research Institute, University of Western Ontario, [2]Robarts Research Institute, [3]University of Guelph

2-F -209 ***Explicit Timing Accuracy Correlates with Cognitive Status of Older Adults***

Omid Ranjbar Pouya[1], Debbie Kelly[1], Zahra Moussavi[1]

[1]University of Manitoba

2-F -210 ***Optogenetic stimulation of VTA projections to the lateral nucleus accumbens shell increases maternal behaviors in rats.***

Allison Martel[1], Sy Dang Thu Dong[1], Xianglan Wen[1], Richard Ryan[1], Josie Diorio[1], Tie-Yuan Zhang[1]

[1]Douglas Mental Health University Institute, McGill University, Montreal

2-F -211 ***Correlated variability modifies working memory fidelity in primate prefrontal neuronal ensembles***

Matthew Leavitt[1], Florian Pieper[2], Adam Sachs[3], Julio Martinez-Trujillo[1]

[1]McGill University, [2]University Medical Center Hamburg-Eppendorf, [3]Ottawa Hospital Research Institute, University of Ottawa

2-F -212 ***Chronic Toluene Exposure, Hippocampus-dependent Spacial Memory and Hippocampal Structure. Experimental Study***

Mzia Zhvania[1]

[1]Ilia State University, I.Beritashvili center of Experimental Biomedicine

2-F -213 ***The Association between Filial Piety and Cognitive Impairment: Findings from a community-dwelling older Chinese population***

Xinqi Dong[1], Melissa Simon[2]

[1]Rush University, [2]Northwestern University

2-F -214 ***Global DNA Methylation Patterns in Perceptual Brain Regions of the Black-capped Chickadee (Poecile atricapillus)***

Sean Aitken[1], Chloe Blackman[1], Ian Weaver[1], Leslie Phillmore[1]

[1]Dalhousie University

2-F -215 ***Synaptic levels of PKMζ in the BLA as a molecular marker of memory strength and incubation***

Matteo Bernabo[1], Nadia Johnston[1], Karim Nader[1]

[1]McGill University

2-F -216 ***Using automated touchscreen tasks as a high-troughput behavioural platform for drug discovery in Alzheimer's disease***

Flavio Beraldo[1], David Wasserman[2], Daniel Palmer[2], Justin Mels[1], Wai-Jane Lee[1], Samantha Creighton[2], Matthew Cowan[1], Masood Talal [1], Fodor Chris [1], Benjamin Kolisnyk[1], Mohammed Al-Onaizi[1], Tom Gee[3], Shuai Liang[3], Robert Bartha[1], Stephen Strother[4], Vania P

[1]University of Western Ontario , [2]University of Guelph, [3]Baycrest Hospital , [4]Baycrest Hospital

2-F -217 ***Novel Tabletop Navigation task used to show sex differences in spatial navigation***

Mashal Fida[1], Erin Zelinski[2], Robert Sutherland[1]

[1]Canadian Centre of Behavioural Neuroscience, University of Lethbridge, [2]Cumming School of Medicine, University of Calgary

2-F -218 ***Relations between event-related alpha perturbations and P300 in multiply concussed athletes***

Samuel Guay[1], Louis De Beaumont[2], Pierre Jolicoeur[2]

[1]Université du Québec à Trois-Rivières, [2]Université de Montréal

2-F -219 ***Age of onset of obsessive-compulsive disorder predicts behavioural symptom severity in women during the perinatal period***

Gabriella Mattina[1], Lauren Mak[2], Geoffrey Hall[1], Meir Steiner[1]

[1]McMaster University, [2]Queen's University

2-F -220 ***The effects of chronic high fructose corn syrup pre-exposure on oxycodone-induced reward, locomotion, and dopamine concentrations in the nucleus accumbens***

Meenu Minhas[1], Cheryl Limebeer[1], Evan Strom[1], Linda Parker[1], Francesco Leri[1]

[1]University of Guelph

2-F -221 ***Dopamine in Ventral Tegmental Area Modulates Learning About Redundant Cues***

Ashraf Mahmud[1], Marie-Pierre Cossette[1], Mihaela Iordanova[1]

[1]Concordia University

G – Novel Methods and Technology Development

2-G -222 ***The Odour Plus Maze: A new behavioural test of odour preference in mice***

Taigan MacGowan[1], Emre Fertan[1], Paula Torres Munoz[1], Richard Brown[1], Tamara Franklin[1]

[1]Dalhousie University

2-G -223 ***Nonlinear Model of a Nonlinear System: An Alternative view of fMRI Modelling***

James Hughes[1], Mark Daley[1]

[1]University of Western Ontario

2-G -224 ***Evaluating hydrophobic microgel polymers for the intranasal delivery of haloperidol to the brain***

Kosalan Akilan[1], Yogesh Katare[1], Madeline Simpson[1], Todd Hoare[1], Ram Mishra[1]

[1]McMaster University

2-G -225 ***In vivo label-free microscopy to infer nerve fibers morphology and myelination in health and disease.***

Alicja Gasecka[1], Alicja Gasecka[1], Nelly Vuillemin[1], Daniel Côté[1]

[1]Laval University, Quebec Mental Health Institute Research Centre

2-G -226 ***Development of a Standardization Phantom for Measuring Brain Gamma-aminobutyric acid (GABA)***

Diana Harasym[1], Nicholas Simard[1], Alejandro Santos-Diaz[1], Michael Noseworthy[1], Aimee Nelson[1]

[1]McMaster University

2-G -227 ***Quantitative phase-digital holographic microscopy: Development of a customizable and multimodal imaging platform to uncover label free biomarkers of Psychiatric Disorders***

Sébastien Lévesque[1], Bertrand De Dorlodot[1], Gabriel Anctil[1], Fariborz Khademian[1], Alyson Bernatchez[1], Vincent Roy[1], Louis D'Amours[1], Anne-Sophie Poulin-Girard[1], Ana Sofia Correia[1], Erik Bélanger[1], Pierre Marquet[1]

[1]Université Laval

2-G -228 ***Development of a platform for an automated high-throughput analysis of central and enteric nervous systems in a mouse Parkinson's disease model***

Jérôme Lamontagne-Proulx[1], Katherine Coulombe[1], Danahé LeBlanc[1], Denis Soulet[1]

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2-G -229 ***Fiber-based Tissue Identification for Electrode Localization During Deep Brain Stimulation Neurosurgery***

Damon DePaoli[1], Laurent Goetz[2], Dave Gagnon[3], Léo Cantin[4], Michel Pruhomme[4], Younès Messadeq[5], Martin Parent[3], Daniel Côté[3]

[1]University of Laval, [2]L'Institut du Cerveau et de la Moelle Épinière, [3]Centre de recherche de l'Institut universitaire en santé mentale de Québec, [4]Hôpital de l'Enfant-Jésus, [5]COPL, Université Laval

2-G -230 ***A Bessel beam two-photon light sheet microscope with a large field of view and a high resolution for large-scale 3D brain imaging***

Cléophace Akitegetse[1], Véronique Rioux[2], Yves De Koninck[1], Martin Lévesque[1], Daniel C. Côté[1]

[1]Université Laval, [2]Centre de recherche de l'Institut Universitaire en Santé mentale de Québec

2-G -231 ***Developing Technologies for Whole-Brain Functional Mapping in Behaving Larval Zebrafish***

Nicholas Guilbeault[1], Michael Martin[1], Tod Thiele[1]

[1]University of Toronto Scarborough

2-G -232 ***RoMon: An open-source web-based solution for rodent behavioural training and monitoring.***

Surjeet Singh[1], Edgar Bermudez Contreras[1], Robert Sutherland[1], Majid Mohajerani[1]

[1]University of Lethbridge

2-G -233 ***Probing neuron mechanics with a micropipette force sensor***

Madeleine Anthonisen[1], Xue Ying Chua[1], Margaret Magdesian[2], Peter Grutter[1]

[1]McGill University, [2]ANANDA Devices

2-G -234 ***Fractal Dreams: Exploring differences in EEG signal scaling properties in individuals with high versus low dream recall***

Tarek Lajnef[1], Thomas Thierry[1], Younes Zerouali[2], Jean Marc Lina[2], Raphael Vallat[3], Jean Baptiste Eichenlaub[4], Perrine Marie Ruby[3], Karim Jerbi[1]

[1]Université de Montréal, [2]CEAMS, [3]Dycog, [4]Harvard Medical School

2-G -235 ***Quantitative approach to analyse protein expression in the brain of aged mice.***

Hou Ve[1], Gilles Goupillou[1], Marc Lussier[1]

[1]Université du Québec à Montréal

2-G -236 ***A machine learning method to investigate the effect of focused ultrasound on glial activation***

Joseph Silburt[1], Stefan Heinen[1], Kelly Markham-Coultes[1], Meaghan O'Reilly[1], Kullervo Hynynen[1], Isabelle Aubert[1]

[1]Sunnybrook Research Institute

H – History, Teaching, Public Awareness and Societal Impacts in Neuroscience

2-H -237 ***The ethical and social impact of public discourse about fetal alcohol spectrum disorder: Key stakeholder perspectives***

John Aspler[1], Eric Racine[1], Aline Bogossian[1]

[1]Institut de recherches cliniques de Montréal

2-H -238 ***BrainReach/Mission: Cerveau : Bringing Neuroscience to the Montréal Community***

Keren Ginzberg[1], Zahraa Chroghay[1], Yi (Daniel) Zhou[1], Yining (Nancy) Chen[1], Marie-Julie Allard[1]

[1]McGill University

2-H -239 ***Increasing Research Value With Sex-Specific Reporting of Data: The Cholinesterase Inhibitor Example***

Nishila Mehta[1], Craig Rodrigues[2], Manpreet Lamba[3], Wei Wu[4], Susan Bronskill[5], Nathan Herrmann[6], Sudeep Gill[7], An Wen Chan[4], Robin Mason[4], Suzanne Day[4], Jerry Gurwitz[8], Paula Rochon[4]

[1]York University, [2]Western University, [3]McMaster University, [4]Women's College Research Institute, [5]Institute for Clinical Evaluative Sciences, [6]University of Toronto, [7]Queen's University, [8]University of Massachusetts

IBRO – International Brain Research Organization

2-IBRO-240 ***Analysis of nmgp-1 Function in C. elegans***

Eliana Fernandez[1], Yamila Cutraro[1], Marcela Brocco[1], Melisa Monteleone[1], Carlos Frasch[1]

[1]Instituto de investigaciones Biotecnológicas Rodolfo Ugalde

2-IBRO-241 ***Dopaminergic signaling counteracts cognitive deficits and depressive-like behavior in Alzheimer's disease models***

Danielle Beckman[1], Luis Santos[1], Mychael Lourenco[1], Juliana Fortuna[1], Suelen Boschen[2], Claudio da Cunha[2], Fernanda de Felice[1], Sergio Ferreira[1]

[1]Institute of Medical Biochemistry Leopoldo de Meis, [2]Federal University of Parana

2-IBRO-242 ***Protective effects of cannabidiol against seizures, neuronal death and glial proliferation are modulated by the enzyme PI3K gamma***

Isabel Vieira de Assis Lima[1], Edleusa Marques Lima Batista[1], Ivan Lucas Brandao[1], Paula Maria Quaglio Bellozi[1], Fabiola Mara Ribeiro[1], Fabricio de Araujo Moreira[1], Antonio Carlos Pinheiro de Oliveira[1]

[1]Federal University of Minas Gerais

2-IBRO-243 ***Neuroprotective cell therapy in a sporadic Alzheimer rat model***

Maria Florencia Zappa Villar[1], Gustavo Ramon Morel[1], Lucia Soledad Tripodi[1], Juliette Lopez Hanotte[1], Mariana Gabriela Garcia[2], Paula Cecilia Reggiani[1]

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A – Development

3-A-1 ***Prenatal Valproic Acid Exposure Reduces Male Rodents' Sensorimotor Abilities, But Enhances Females' Abilities***

Allison Dyck[1], Tammy Ivanco[1]

[1]University of Manitoba

3-A-2 ***Maternal immune activation and later-life behavioral deficits: Is there a link with embryonic microglia migration?***

Chloé Lacabanne[1], Anouk Benmamar--Badel[2], Sophie Layé[3], Giamal Luheshi[1]

[1]Douglas Mental Health University Institute, McGill university, [2]Ecole Normale Supérieure de Lyon, Université de Lyon, [3]NutriNeuro Lab, INRA-Université de Bordeaux

3-A-3 ***Maternal high fat diet and its effect on offspring developing brain: implication for neurodevelopmental disorders***

Maude Bordeleau[1], Marie-Ève Tremblay[2], Giamal Luheshi[1]

[1]McGill University, Doulas Mental Health Institute, [2]Université Laval, CRCHU de Québec-Université Laval

3-A-4 ***Ancestral Stress Alters Lifetime Mental Health Trajectories and Cortical Neuromorphology via MicroRNA Regulation***

Mirela Ambeskovic[1], Olena Babenko[1], Yaroslav Ilnytskyy[1], Igor Kovalchuk[1], Bryan Kolb[1], Gerlinde Metz[1]

[1]University of Lethbridge

3-A-5 ***Slitrk2 and Slitrk5 differentially control excitatory and inhibitory synapse formation on dopaminergic neurons and hyperactivity behaviour***

Charleen Salesse[1], Julien Charest[1], Hélène Doucet-Beaupré[1], Paul De Koninck[1], Martin Levesque[1]

[1]Université Laval

3-A-6 ***Impact of energy consumption and autophagy on neuronal migration***

Cédric Bressan[1], Marina Snapyan[2], Simon Labrecque [2], Paul De Koninck[2], Armen Saghatelyan[2]

[1]Universirté Laval, [2]Université Laval

3-A-7 ***CaMKIIa expression defines two functionally distinct populations of granule cells involved in different types of odor behaviors***

Sarah Malvaut[1], Simona Gribaudo[2], Linda Suzanne David[1], Laura Daroles[2], Zayna Chaker[3], Martin Holzenberger[3], Alain Trembleau[2], Isabelle Caille[2], Armen Saghatelyan[1]

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3-A-8 ***Environmental programming of adult foraging behavior in the nematode Caenorhabditis elegans***

Sreeparna Pradhan[1], Michael Hendricks[1]

[1]McGill University

3-A-9 ***Acute hypoxia reveals a developmentally-inhibited pattern generator for lung breathing in pre-metamorphic tadpole brainstem preparations***

Tara Janes[1], Jean-Philippe Rousseau[1], Stéphanie Fournier [1], Richard Kinkead[1]

[1]Universite Laval

3-A-10 ***Genetic targeting of quiescent adult neural stem cells reveals their in vivo biological properties***

Sandra Joppé[1], Loic Cochard[1], Louis-Charles Levros[1], Laura Hamilton[1], Anne Aumont[1], Karl Fernandes[1]

[1]Université de Montréal

3-A-11 ***Stimulation of neighboring retinal ganglion cell inputs promotes axonal branch elaboration of an unstimulated retinotectal axon***

Tasnia Rahman[1], Martin Munz[1], Edward Ruthazer[1]

[1]Montreal Neurological Institute, McGill University

3-A-12 ***The role of microglia in the developing hypothalamus***

Jessica Rosin[1], Candace Marsters[1], Faizan Malik[1], Rena Far[1], Deborah Kurrasch[2]

[1]University of Calgary, [2]The University of Calgary

3-A-13 ***Sensitization of spinal motor neurons to Netrin1 by ephrin-A5***

Louis-Philippe Croteau[1], Tzu-Jen Kao[2], Artur Kania[1]

[1]IRCM, [2]Taipei medical university

3-A-14 ***Sex and inhibition: sex-specific differences in the development of the hippocampal GABAergic network***

Daniele Wolf[1], Nathalie Sanon[2], Soumia Aboulamer[2], Lionel Carmant[2]

[1]Université de Montréal, [2]CHU Ste-Justine

3-A-15 ***Heterogeneity of the blood-brain barrier***

Marie Blanchette[1], Nadine Ruderish[2], Richard Daneman[1]

[1]University of California, San Diego, [2]Roche

3-A-16 ***Gaba signaling promotes the proliferation of adult neural precursor cells by modulating creb signaling and repressing notch pathway***

Louis-Charles Levros[1], Loic Cochard[2], Brianna Goldenstein[2], Éric Samarut[2], Anne Aumont[2], Meijang Liao[2], Pierre Drapeau[2], Karl Fernandes[2]

[1]University of Montreal- CRCHUM, [2]University of Montreal-CRCHUM

3-A-17 ***A role for the calcium-activated protease calpain in the regulation of netrin-1/DCC-mediated cortical axon outgrowth and guidance***

Philippe Duquette[1], Vilayphone Luangrath[1], Chantal Piché[1], Doo Soon Im[2], David Park[2], Nathalie Lamarche-Vane[1]

[1]RI-MUHC, [2]University of Ottawa Brain and Mind Research Institute

3-A-18 ***AMIGO-1 regulates the development of the olfactory sensory map***

Reesha Raja[1], Alina Phen[1], Emilie Dumontier[1], Jean-François Cloutier[1]

[1]McGill University

3-A-19 ***Disruption of CREB-dependent transcription alters brain structural volume covariance***

Yohan Yee[1], Dulcie Vousden[1], Alexander Friesen[1], Lily Qiu[1], Sheena Josselyn[1], Paul Frankland[1], Jason Lerch[1]

[1]Hospital for Sick Children

3-A -20 ***TrpV1 mediates axon degeneration in development***

Aaron Johnstone[1], Andres de Leon[1], Philip Barker[2]

[1]Montreal Neurological Hospital/ McGill University, [2]University of British Columbia Okanagan

B – Neural Excitability, Synapses, and Glia: Cellular Mechanisms

3-B -21 ***Calcium-stimulated signaling pathway via adneylyl cyclase subtype 1 contreibutes to postsynaptic LTP in the insular cortex of adult mice***

Manabu Yamanaka[1], Takanori Matsuura[1], Min Zhuo[1]

[1]University of Toronto

3-B -22 ***Phosphoinositol hydrolysis regulates cation channel function in Aplysia neuroendocrine cells***

Raymond Sturgeon[1], Neil Magoski[1]

[1]Queen's University

3-B -23 ***Cav3.1-mediated calcium entry triggers signaling cascade for CREB activation***

Hadhimulya Asmara[1], Ileana Micu[1], Arsalan Rizwan[1], Giriraj Sahu[1], Fang-Xiong Zhang[1], Peter Stys[1], Gerald Zamponi[1], Ray Turner[1]

[1]University of Calgary

3-B -24 ***Synaptic vesicle recycling defects in de novo mutations of dynamin 1***

Katherine Bonnycastle[1], Dinesh Soares[1], Wayne Lam[1], Michael Cousin[1]

[1]University of Edinburgh

3-B -25 ***GCaMP imaging reveals that combined changes in axonal excitability and intracellular chloride are necessary to permit GABA-evoked spiking in the central axon terminals of primary afferent neurons***

Petri Takkala[1], Steven Prescott[1]

[1]University of Toronto

3-B -26 ***Hydrogen peroxide gates a cation channel in Aplysia neuroendocrine cells***

Alamjeet Chauhan[1], Neil Magoski[1]

[1]Queen's University

3-B -27 ***Visualization of lncRNAs, ion channels, and GPCR expression, within morphological context in the central and peripheral nervous systems***

Nina Nguyen[1], Emily Park[1]

[1]Advanced Cell Diagnostics

3-B -28 ***Action potential counting at giant mossy fiber synapses gates information transfer in the hippocampus***

Simon Chamberland[1], Alesya Evstratova[1], Katalin Toth[1]

[1]Universite Laval

3-B -29 ***Employing a fast, membrane-targeted GCaMP variant to study the spatial distribution of voltage-gated calcium channels at presynaptic specializations***

Stefan Krueger[1], Meagan Wiederman[1], Annette Kolar[1], Andrew Gilyan[1]

[1]Dalhousie University

3-B -30 ***A novel computational model underlying the spiking dynamics of a subfornical organ neuron***

Laura Medlock[1], Dominic Standage[1], Mark Fry[2], Alastair Ferguson[1]

[1]Queen's University, [2]University of Manitoba

3-B -31 ***Ionotropic and metabotropic kainate receptor signalling regulates KCC2 and synaptic inhibition***

Danielle Garand[1], Melanie Woodin[1]

[1]University of Toronto

3-B -32 ***Use of optogenetics to trigger and characterize somatodendritic dopamine release in the mouse mesencephalon***

Benoît Delignat-Lavaud[1], Louis-Eric Trudeau[1]

[1]Université de Montréal

3-B -33 ***State-Dependent Entrainment of Cortical Oscillatory Activity***

Jeremie Lefebvre[1]

[1]Krembil Research Institute

3-B -34 ***Norepinephrine and L-lactate modulation of neural network activity in newborn rat locus ceruleus slices***

Bijal Rawal[1], Klaus Ballanyi[1]

[1]University of Alberta

3-B -35 ***Regulation of Calcium Entry in Microglia by Nitric Oxide***

Matthew Maksoud[1], Dong An[2], Yun-Yan Xiang[2], Wei-Yang Lu[2]

[1]Western University, [2]Western University

3-B -36 ***Regulation of oligodendroglial mitochondria by netrin-1***

Diane Nakamura[1], Damla Khan[1], Jack Antel[1], Timothy Kennedy[1]

[1]Montreal Neurological Institute

3-B -37 ***Changes in extracellular Ca2+ concentration trigger sustained firing in a precise axonal compartment of large primary afferents through Nav1.6 channels***

Julia Giraud[1], Philippe Morquette[1], Danny Kim[1], Marc Couillard-Larocque[1], Dorly Verdier[1], Arlette Kolta[1]

[1]Université de Montréal

3-B -38 ***Effects of high frequency electric field stimulation on neuronal function***

Lee Lesperance[1], Stephanie Ratte[1], Steve Prescott[1]

[1]The Hospital for Sick Children

3-B -39 ***Nicotinic Acetylcholine Receptor Signaling in Principal Neurons of the Developing Hippocampus Formation***

Beryl Chung[1], Craig Bailey [1]

[1]Unviersity of Guelph

3-B -40 ***Properties of electrical transmission promote synchronization of Aplysia neuroendocrine cells***

Yueling Gu[1], Neil Magoski[1]

[1]Queen's University

3-B -41 ***Optical imaging of netrin-1 exocytic events in cultured hippocampal neurons***

Simon Labrecque[1], Ian Beamish[2], Stephen Glasgow[2], Edward Ruthazer[2], Timothy Kennedy[2], Paul De Koninck[1]

[1]Universite Laval, [2]McGill University

3-B -42 ***VIP interneuron diversity in the mouse hippocampus***

Xiao Luo[1], Lisa Topolnik[1]

[1]Université Laval

3-B -43 ***Neural populations with feedforward inhibition and background conductance noise operate as smart filters***

Milad Lankarany[1], Steven Prescott[1]

[1]The Hospital for Sick Children and University of Toronto

3-B -44 ***The X-linked disability gene, DHHC9, regulates neural circuit formation***

Jordan Shimell[1], Bhavin Shah[1], Blair Jovellar[1], Stefano Brigidi[1], Igor Tatarnikov[1], Naila Kulhmann[1], Austen Milnerwood[1], Shernaz Bamji[1]

[1]University of British Columbia

3-B -45 ***A double dissociation of presynaptic NMDA receptor signalling in neocortex***

Christina You Chien Chou[1], Jennifer Brock[1], Therése Abrahamsson[2], Sally Li[1], Adamo Mancino[1], Erin Nuro[1], W. Todd Farmer[1], Rui Costa[3], Katherine Buchanan[4], Dale Elgar[4], Arne Blackman[4], Adam Tudor-Jones[4], Keith Murai[1], Per Jesper Sjöström[1]

[1]McGill University, [2]McGill University , [3]Oxford University, [4]University College London

3-B -46 ***Pre-gating conformational changes of AMPA receptors are modulated by the flip/flop alternative splicing cassette***

Mark Aurousseau[1], Brent Dawe[1], Fahim Kadir[2], Raminta Venskutonyte[3], Marika Arsenault[1], Jette Kastrup[3], Michael Edwardson[2], Derek Bowie[1]

[1]McGill University, [2]University of Cambridge, [3]University of Copenhagen

3-B -47 ***Sexually Dimorphic Modulatory Effect of Estradiol on GABA Transmission***

James Gardner Gregory[1], Emily Hawken[1], Staci Angelis[1], Eric Dumont[1]

[1]Queens University

3-B -48 ***RAGE signalling mediates hippocampal dysfunction in a mouse model of diabetes***

Zeinab Momeni[1], Rylan Urban[1], Lane Bekar[1], Yasuhiko Yamamoto[2], Veronica Campanucci[1]

[1]University of Saskatchewan , [2] Kanazawa University

3-B -49 ***Sequential spatiotemporal activity in primary visual cortex reflects locomotion state.***

Jesse Jackson[1], Mahesh Karnani[2], Inbal Ayzenshtat[1], Rafael Yuste[1]

[1]Columbia University, [2]Columbia University

3-B -50 ***Determinants of spinal hyperexcitability in a human ex vivo model of pathological pain processing.***

Chaya Kandegedara[1], Jian Xu[2], Annemarie Dedek[1], Eve Tsai[3], Paul Lombroso[4], Michael Hildebrand[1]

[1]Carleton University , [2]Yale University , [3]Ottawa Health Research Institute, [4]Yale University

3-B -51 ***The splicing factor Nova2 regulates action potential threshold in neocortical layer 5 pyramidal neurons***

Soledad Miranda-Rottmann[1], Sabrina Tazerart[1], Bruno Navea-Pina[1], Robert Darnell[2], Roberto Araya[1]

[1]Universite de Montreal, [2]The Rockefeller Univerisity

3-B -52 ***Modulation of entorhinal cortical input to hippocampal granule cells through activation of local inhibitory network in the dentate gyrus***

Yanina Mircheva[1], Modesto Peralta III[2], Katalin Toth[2]

[1]Year, [2]University of Laval , Institut Universitaire de la sante mentale Robert Giffard

3-B -53 ***Neuropeptide signaling affects the glia-neuron interaction during neurodevelopment and is highly associated with neurological disorders***

Seung Gee Lee[1], Stuti Mukherjee[1], Woo Jae Kim[1]

[1]University of Ottawa

3-B -54 ***Non-ionotropic NMDA receptor activity contributes to the activity-dependent reversal of hyperalgesia and sensitization in pain reconsolidation***

Abigail D'Souza[1], Yu-Feng Xie[1], Robert Bonin[1]

[1]University of Toronto

3-B -55 ***Connectivity and network state-dependent recruitment of long-range VIP-GABAergic neurons in the mouse hippocampus***

Ruggiero Francavilla[1], Vincent Villette[2], Olivier Camiré[2], Lisa Topolnik[2]

[1]Universite Laval, [2]Neuroscience Axis, CHU de Québec Research Center , Laval University, Québec, PQ, G1V 4G2, Canada

3-B -56 ***Characterizing dendritic chloride distribution and entry using fluorescence lifetime imaging microscopy***

Nicholas Weilinger[1], Brian MacVicar[1]

[1]Centre For Brain Health / UBC

3-B -57 ***Optogenetic kindling of neocortex elicits seizures***

Elvis Cela[1], Amanda McFarlan[1], Amrit Sampalli[1], Per Jesper Sjöström[1]

[1]McGill University

3-B -58 ***Functional behaviour of brain-specific Nav1.5 voltage-gated sodium channels***

Adamo Mancino[1], Yuhao Yan[1], Mark R Aurousseau[1], Derek Bowie[1]

[1]McGill University

3-B -59 ***Spreading Depolarization Evoked by Ischemia in Cortical Slices of the Frog***

Victoria Donovan[1], R. David Andrew[1]

[1]Queen's University

3-B -60 ***Regulation of transmitter release through the CaV2 alpha 1 C-terminal EF-hand F-helix tyrosine***

Tyler Dunn[1], Xiaotang Fan[1], Wayne Sossin[1]

[1]McGill University

3-B -61 ***Dexmedetomidine reverses postanesthetic cognitive deficits through an astrocyte-dependent pathway***

Kirusanthy Kaneshwaran[1], Fariya Mostafa[1], Gang Lei[1], Junhui Wang[1], Dian-Shi Wang[1], Beverley Orser[1]

[1]University of Toronto

3-B -62 ***Elfn1 interactions with mGlu7 and GluK2 determine layer-specific synaptic properties onto cortical interneurons***

Tevye Stachniak[1], Emily Sylwestrak[2], Benjamin Hall[1], Anirvan Ghosh[3]

[1]F. Hoffmann - La Roche, [2]Stanford University, [3]E-Scape Bio

3-B -63 ***Homeostatic-like Potentiation of the Aversive Habenulo-Raphe Pathway in an Animal Model of Post-Stroke Depression***

Sébastien Maillé[1], Sean Geddes[1], David Lemelin[1], Saleha Assadzada[1], Jean-Claude Béïque[1]

[1]University of Ottawa

3-B -64 ***Optogenetic approach for the study of chloride homeostasis***

Isabel Plasencia Fernandez[1], Cyril Bories[1], Yves de Koninck[1]

[1]Université Laval

3-B -65 ***Caught in the act: In vivo 2-photon imaging evidence of phagocytosis of synapses in the Xenopus laevis retinotectal circuit***

Tony Lim[1], Edward Ruthazer[1]

[1]McGill University

C – Disorders of the Nervous System

3-C -66 ***Disruption of autophagic signaling in murine forebrain affects excitatory-inhibitory balance via mistrafficking of GABAA receptors leading to ASD-like behaviours***

Kelvin Hui[1], Noriko Takashima[1], Hiroshi Matsukawa[1], Akiko Watanabe[1], Per Nilsson[2], Ryo Endo[1], Takaomi Saido[1], Shigeyoshi Itohara[1], Takeo Yoshikawa[1], Motomasa Tanaka[1]

[1]RIKEN Brain Science Institute, [2]Karolinska Institutet

3-C -67 ***Toll-like receptors 4 and 9 expression change in rodent model of epilepsy***

Chinmaya Sadangi[1], Felix Rosenow[2], Braxton Norwood[3]

[1]Karl Von Frisch Str. 1, [2]Goethe University, Frankfurt, [3]Philipps University Marburg

3-C -68 ***The effects of relaxin-3 and a specific RXFP3 agonist on food intake and circulating hormones in rats***

Camila de Avila Dal'Bo[1], Sandrine Chometton[1], Geneviève Guèvremont[1], Juliane Calvez[1], Christophe Lenglos[1], Andrew Gundlach[2], Elena Timofeeva[1]

[1]Faculty of Medicine of the Laval University , [2]The Florey Institute

3-C -69 ***Treatment with an interleukin-1 receptor antagonist improves neurological outcomes in an experimental model of polytrauma***

Mujun Sun[1], Bridgette Semple[1], Terence O'Brien[1], Stuart McDonald[2], Rhys Brady[1], Sandy Shultz[1]

[1]The University of Melbourne, [2]La Trobe University

3-C -70 ***Electron microscopic evidence of markers of premature aging in the PS-1(M146V) mouse model of Alzheimer pathology***

Annalise Kudryk[1], Lexi Busse[2], Veronica Finkas[2], Rorie Pinkney[2], Beth Blakley[2], David Woloschuk[2], Kirk Johns[2], Ava Menezes[2], Taylor Duda[2], Zelan Wei[2], Ric Devon[2], Darrell Mousseau[2], Bogdan Popescu [2], Jen Chlan[2]

[1]University of Saskatchewan, [2]University of Saskatchewan

3-C -71 ***IL-17A in the peripheral blood and hippocampi of rats chronically exposed to low doses of ozone***

Helena Solleiro-Villavicencio[1], Selva Rivas-Arancibia[1]

[1]Universidad Nacional Autónoma de México

3-C -72 ***Excessive Temporomandibular Joint Overloading Leads to Neuropathic Orofacial Pain in Mice***

Guan Yun Frances Wang[1], Xiang Qun Shi[1], Wenjia Wu[1], Mu Yang[1], Ji Zhang[1]

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3-C -73 ***Characteristics of monocytes and macrophages in B7.2 transgenic mice developing spontaneous autoimmune peripheral neuropathy***

Oladayo Oladiran[1], Mu Yang[1], Xiang Qun Shi[1], Srishti Jain[1], Sylvie Fournier[1], Ji Zhang[1]

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3-C -74 ***Dynamic nature of olfactory bulb atrophy and early caspase activation in the BACHD rat models***

Melissa Lessard-Beaudoin[1], Melissa Laroche[1], Libo Yu-Taeger[2], Hoa Nguyen[2], Rona K. Graham[1]

[1]University of Sherbrooke - Research centre on aging, [2]University of Tuebingen

3-C -75 ***Assessment of astrocyte-oligodendrocyte coupling integrity in the brain of depressed suicides***

Arnaud Tanti[1], John Kim[1], Maria-Antonietta Davoli[1], Naguib Mechawar[1]

[1]McGill Group for Suicide Studies

3-C -76 ***Chronic metformin treatment downregulates hyperactivated ERK signaling in the forebrain, but not in hindbrain and peripheral tissues in the Fragile X Syndrome (FXS) mouse model***

Jelena Popic[1], Ilse Gantois[1], Arkady Khoutorsky[1], Anmol Nagpal[1], Agnieszka Skalecka[1], Tai Truong[1], Christos Gkogkas[2], Nahum Sonenberg[1]

[1]McGill University, [2]University of Edinburgh

3-C -77 ***Auditory oddball training improves prepulse inhibition in a mouse model of schizophrenia***

Gerson Guercio[1], Julia Travassos[1], Stella Costa[1], Ananda Perozzo[1], Luana Mororo[1], Larissa Genaro[1], Linda Scoriels[1], Etienne de Villers-Sidani[2], Rogerio Panizzutti[1]

[1]Federal University of Rio de Janeiro, [2]McGill University

3-C -78 ***Mitochondrial-derived vesicles in neurons: implications for mitochondrial quality control and Parkinson's disease***

Rosalind Roberts[1], Thomas Durcan[1], Edward Fon[2]

[1]McGill University, [2]Dr.

3-C -79 ***Neuroprotective and immunomodulatory effects of two 5alpha-reductase inhibitors in the myenteric plexus of a mouse model of Parkinson's disease***

Andrée-Anne Poirier[1], Mélissa Côté[2], Nadhir Litim[1], Sara Al Sweidi[1], Thérèse Di Paolo[1], Denis Soulet[1]

[1]Laval University, [2]Centre de recherche du CHU de Québec (CHUL)

3-C -80 ***Using zebrafish to throw light into the role of DEPDC5 in epilepsy***

Amrutha Swaminathan[1], Eric Samarut[1], Raphaelle Riche[1], Meijiang Liao[1], Pierre Drapeau[1]

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3-C -81 ***Dopaminergic neurodegeneration in a rat model of chronic hyperglycaemia***

Justine Renaud[1], Karine Dufresne[1], Jimmy Beaulieu[1], Carole Lavoie[1], Giulia Costa[2], Annalisa Pinna[2], Valentina Bassareo[2], Nicola Simola[2], Micaela Morelli[2], Maria-Grazia Martinoli[1]

[1]Université du Québec à Trois-Rivières, [2]Università degli studi di Cagliari

3-C -82 ***The Metabotropic Glutamate 2 Receptor Positive Allosteric Modulator LY-487,379 Alleviates L-DOPA-Induced Dyskinesia in the 6-Hydroxydopamine-Lesioned Rat Model of Parkinson's Disease***

Cynthia Kwan[1], Imane Frouni[1], Vaidehi Nafade[2], Dave Gagnon[3], Marie-Josée Wallman[3], Lamia Sid-Otmane[4], Martin Parent[5], André Parent[3], Claude Rouillard[6], Adjia Hamadjida[4], Philippe Huot[4]

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3-C -83 ***Role of Neurexin in Amyloid β-induced Synapse Pathology***

Yusuke Naito[1], Alfred Lee[2], Yuko Tanabe[3], Edith Hamel[4], Hideto Takahashi[5]

[1]Institut De Recherches Cliniques De Montreal/Mcgill University , [2]Institut De Recherches Cliniques Institut De Recherches Cliniques De Montreal/Mcgill University De M, [3]Institut De Recherches Cliniques De Montreal, [4]Montreal Neurological Institute, McGil

3-C -84 ***Deciphering the role of hematopoietic stem/progenitor cells highly expressing interleukin-1 receptor in experimental autoimmune encephalomyelitis.***

Benoit Mailhot[1], Alexandre Paré[1], Sebastien Levesque[1], Daniel Coutu[2], Timm Schroeder[2], Steve Lacroix[1]

[1]Centre Hospitalier Université Laval (CHUL), [2]ETH Zürich

3-C -85 ***Increased Excitability of Dorsal Root Ganglia Neurons in the Experimental Autoimmune Encephalomyelitis Model of Multiple Sclerosis is Cell Type Specific***

Myung-chul Noh[1], Muhammad Saad Yousuf[1], Bradley Kerr[1], Peter Smith[1]

[1]University of Alberta

3-C -86 ***A brain-computer interface for communication with an unresponsive wakefulness syndrome patient***

Christoph Guger[1], Joanna Cakala[2], Brendan Allison[3], Alexander Heilinger[4], Rupert Ortner[1], Woosang Cho[1], Fan Cao[1], Krysztof Malej[5]

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3-C -87 ***Translating the impact of Mindfulness-Based Stress Reduction (MBSR) among breast cancer survivors with chronic neuropathic pain: A preliminary look at structural connectivity of the brain***

Aziza Byron-Alhassan[1], Taylor Hatchard [1], Ola Mioduszewski [1], Yaadwinder Shergill[2], Patricia Poulin[3], Andra Smith[1]

[1]University of Ottawa, [2]Ottawa , [3]Ottawa Hospital

3-C -88 ***The contributions of the ventral tegmental area to the expression of antipsychotic-induced dopamine supersensitivity***

Alice Servonnet[1], Pierre-Paul Rompré[1], Anne-Noël Samaha[1]

[1]Université de Montréal

3-C -89 ***Dissecting the molecular pathway involved in PLK2-mediated a-synuclein selective autophagic degradation***

Manel Dahmene[1], Abid Oueslati[1]

[1]research center CHUQ-Laval University

3-C -90 ***The highly-selective metabotropic glutamate receptor 2 positive allosteric modulator LY-487,379 alleviates psychosis-like behaviours and dyskinesia in the MPTP-lesioned marmoset***

Lamia Sid-Otmane[1], Stephen Nuara[2], Adjia Hamadjida[1], Nicolas Veyres[1], Claude Rouillard[3], Michel Panisset[1], Jim Gourdon[2], Philippe Huot[1]

[1]CHUM Research Centre, [2]McGill University, [3]University of Laval Hospital Research Centre

3-C -91 ***Recording Event-Related Potentials from Unresponsive Populations: Identifying Best Practices and Implications for the Study of Consciousness***

Alexander Rokos[1], Richard Mah[2], Rober Boshra[2], Amabilis Harrison[2], Tsee Leng Choy[2], Stefanie Blain-Moraes[1], John Connolly[2]

[1]McGill University, [2]McMaster University

3-C -92 ***Implementation of a Novel Imaging Technique to the Study of Post-Stroke Myelin Pathophysiology***

Eszter Wendlandt[1], Ian Winship[1]

[1]University of Alberta

3-C -93 ***Cerebellar pathophysiology and its treatment in spinocerebellar ataxia type 6 mice***

Sriram Jayabal[1], Hui Ho Vanessa Chang[1], Sabrina Quilez[1], Eileen Mcnicholas[1], Yizhen Guo[1], Kathleen Cullen[1], Alanna Watt[1]

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3-C -94 ***Motor deficits in a zebrafish model of Parkinson's disease***

Adib Dehghany[1], Rafael Godoy[1], Marc Ekker[1], Tuan Bui[1]

[1]University of Ottawa

3-C -95 ***Spatial Rearrangements of Astrocytes and Microglia in the Ageing Down Syndrome Brain***

Blandine Ponroy Bally[1], Huashan Peng[1], Marie Franquin[1], Keith Murai[1]

[1]McGill University

3-C -96 ***The Search for Effective Correction- Systemic Hexosaminidase Hybrid Gene Therapy on Neonatal and Adult Sandhoff Mice***

Karlaina Osmon[1], Evan Woodley[1], Patrick Thompson[2], Meera Vyas[2], Subha Karumuthil-Melethil[3], John Keimel[4], Steven Gray [5], Jagdeep Walia[2]

[1]Queen's University, [2]Queen's University , [3]University of North Carolina , [4]New Hope Foundation, [5]University of North Carolina

3-C -97 ***Effects of Memogain® on Phosphorylated Tau and Neurogenesis in a Rodent Model of Basal Forebrain Cholinergic Cell Loss***

Darren Van Kampen[1], Alfred Maelicke[2], Jackalina Van Kampen[2]

[1]Neurodyn Life Sciences, [2]Neurodyn Inc.

3-C -98 ***Investigating pupil dynamics in patients with neurodegenerative diseases***

Jeff Huang[1], Brian Coe[1], Matthew Smorenburg[1], Donald Brien[1], Sandra Black[2], Liz Finger[2], Morris Freedman[2], Tony Lang[2], Tanya Schmah [2], Rick Swartz[2], Carmela Tartaglia[2], Lorne Zinman[2], Douglas Munoz[1]

[1]Queen's University, [2]ONDRI

3-C-99 ***Age-related changes in hippocampal subfields and white matter across childhood and adolescence***

Alexandra Decker[1], Eric Bouffet[2], Suzanne Laughlin[2], M. Chakravarty[3], Jovanka Skocic[4], Cynthia de Medeiros[2]

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3-C -100 ***Metabolic stress in glaucoma engages early activation of the energy biosensor AMPK leading to neuronal dysfunction***

Nicolas Belforte[1], Jorge Cueva Vargas[1], Adriana Di Polo[1]

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3-C -101 ***The Effect of a Novel IDO Inhibitor on the Behaviour and Neuropathology of the 3xTG Mouse Model of Alzheimer's Disease***

Emre Fertan[1], Kurt Stover[2], Michael Brant[2], Paul Stafford[2], Brendan Kelly[2], Elena Diez-Cecilia[2], Aimee Wong[1], Donald Weaver[2], Richard Brown[1]

[1]Dalhousie University, [2]Krembil Research Institute, University Health Network

3-C -102 ***Regeneration of retinal ganglion cell dendrites and synapses after axonal injury: the role of insulin on regrowth and reconnection***

Jessica Agostinone[1], Luís Alarcón-Martínez[1], Wan-Qing Yu[2], Rachel Wong[2], Adriana Di Polo[1]

[1]Université de Montréal - CRCHUM, [2] University of Washington

3-C -103 ***¬IL-15 enhances pro inflammatory T cell responses in multiple sclerosis and experimental autoimmune encephalomyelitis***

Cyril Laurent [1], Gabrielle Deblois[1], François Gagnon[1], Pierre Duquette [2], Alexandre Prat [1], Nathalie Arbour [1]

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3-C -104 ***Live imaging of retinal pericytes: evidence for early calcium uptake, capillary constriction and vascular dysregulation in ocular hypertension glaucoma***

Luis Alarcon-Martinez[1], Jorge Cueva-Vargas[1], Nicolás Belforte[1], Deborah Villafranca-Baughman[1], Adriana Di Polo[1]

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3-C -106 ***Increasing axonal arborization size of dopamine neurons to produce a better mouse model of Parkinson's disease***

Pamela Cassidy[1], William Tanguay[1], Louis-Éric Trudeau[1]

[1]Université de Montréal

3-C -107 ***The neurotoxic effects of soluble amyloid-beta oligomers on memory processing and sleep at the onset of AD***

David Castonguay[1], Raffi Tavitian[1], Chloé Provost[1], Jonathan Brouillette[1]

[1]Hôpital du Sacré-Coeur de Montréal

3-C -108 ***Altered lipid profile associated with myelin degeneration in the aging brain***

Kendra Furber[1], Glaiza Tan[1], Alice Liu[1], Merlin Thangaraj[1], Bogdan Popescu[1], J. Ronald Doucette[1], Adil Nazarali[1]

[1]University of Saskatchewan

3-C -109 ***Early mitochondrial fragmentation in retinal endothelial cells and vascular dysfunction in ocular hypertension glaucoma***

Jorge Luis Cueva Vargas[1], Yoko Ito[1], Ariel Wilson[2], Christine Vande Velde[1], Przemyslaw Sapieha[2], Adriana Di Polo[1]

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3-C -110 ***Function of the Syngap1/mTOR pathway in GABAergic cells and cognitive development.***

Théo Badra[1], Jacques Michaud[1], Graziella Di Cristo[1]

[1]CHU Sainte-Justine Research Center

3-C -111 ***Carotid stiffness impairs cerebral blood flow regulation and blood-brain-barrier function leading to cognitive deficits***

M. Florencia Iulita[1], Gervais Muhire[1], Diane Vallerand[1], Jessica Youwakim[1], Frank Petry[2], Maude Gratuze[2], Emmanuel Planel[2], Guylaine Ferland[1], Helene Girouard[1]

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3-C -113 ***Characterization of new ALS models generated using CRISPR/Cas9***

Constantin Bretonneau[1], Alex Parker[1]

[1]CrCHUM

3-C -114 ***Beyond Amyloid - Manipulating metabolism as a potential therapy for Alzheimer's Disease***

Asad Lone[1], Robert Cumming[1]

[1]University of Western Ontario

3-C -115 ***Investigation of the axonal regeneration potential of the DLK-1 pathway in C. elegans models of amyotrophic lateral sclerosis and Huntington's disease***

Gilles Tossing[1], Alex Parker[1]

[1]Université de Montréal

3-C -116 ***Upregulation of low affinity state dopamine D3 receptors in normal aged and Parkinson disease with dementia brains***

Jinbin Xu[1], Yingqiu Guo[1], Fei Han[1], Nigel Cairns[1], Joel Perlmutter[1]

[1]Washington University

3-C -117 ***Cerebrovascular Safety of Sulfonylureas: The role of KATP Channels in neuroprotection and stroke risk in treatments of type 2 diabetes***

Vivian Ying Szeto[1], Rui Liu[1], Haitao Wang[1], Baofeng Xu[1], Tianru Jin[1], Edoardo Mannucci[2], Zhong-Ping Feng[1], Hong-Shuo Sun[1]

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3-C -118 ***A novel substrate for preclinical models of cell-based therapy for Parkinson's disease***

Simon Benoit[1], Hu Xu[2], Susanne Schmid[1], Matthew Hebb[2]

[1]University of Western Ontario, [2]London Health Sciences Center

3-C -119 ***Modulation of mitochondrial function using overexpression of transcription factors as neuroprotective therapy for Parkinson's disease***

Hélène Doucet-Beaupré[1], Sofien Laouafa[2], Jorge Soliz[3], Vincent Joseph[3], Aurore Voisin[4], Louis-Éric Trudeau[4], Martin Lévesque[5]

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3-C -120 ***PEG-Enzyme for treatment of neurodegenerative diseases***

Ahlem Zaghmi[1], Andrea Greschner [2], Charles Ramassamy [1], Marc Andre Gauthier[2]

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3-C -121 ***Locomotor and synaptic abnormalities in a zebrafish tardbp (tdp-43) knockout model.***

Poulomee Bose[1], Gary A.B Armstrong[2], Pierre Drapeau[3]

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3-C -122 ***A neural pathway controlling the motivation to move***

Christophe Proulx[1], Sage Aronson[2], Cris Molina[2], Djordje Milivojevic[2], Bradley Monk[2], Steven Shabel[2], Roberto Malinow[2]

[1]Université Laval, [2]UCSD

3-C -123 ***The Effects of Abeta Oligomers on the Regulation of Protein Synthesis***

Felipe Ribeiro[1], Argel Aguillar Valles[2], Danielle Ferreira[1], Juliana Fortuna[1], Guilherme Braga[1], Fernanda de Felice[1], Nahum Sonenberg[2], Sergio Ferreira[1]

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3-C -124 ***The effect of aging and generational stress on T2 relaxation values in the hippocampus***

Loredana Truica[1], Mirela Ambeskovic[1], Jennifer McCreary[1], Gerlinde Metz[1]

[1]University of Lethbridge

3-C -125 ***Functional connectivity deficits in Autism Spectrum Disorder following personalized intrinsic network topography mapping***

Erin Dickie[1], Joseph Viviano[1], Dawn Smith[1], Navona Calarco[1], Stephanie Ameis[1], Aristotle Voineskos[1]

[1]Centre for Addiction and Mental Health

3-C -126 ***The role of sodium channels in multiple sclerosis.***

Barakat ALRASHDI[1], Bassel Dawod[1], Andrea Rottlaender[2], Stefanie Kürten[2], Jean Marshall[1], Patrice Côté[1]

[1]Dalhousie University, [2]University of Wuerzburg

3-C -127 ***Rapid drug discovery in genetic models of CHARGE Syndrome***

Betelhem Kassa[1], Kathrin Schmeisser[2], Alex Parker[3], Kessen Patten[1]

[1]INRS-Institut Armand Frappier, [2]CRCHUM and Department of Neurosciences, University of Montreal, [3]CRCHUM and Department of Neurosciences, Universite de Montreal

3-C -128 ***Long-term effects of concussions on psychomotor speed and cognitive control processes during motor sequence learning***

Christelle Beaulieu[1], Alexandre Turcotte-Giroux[1], Frédérike Carrier-Toutant[1], Benoit Brisson[1], Pierre Jolicoeur[2], Louis De Beaumont[1]

[1]Université du Québec à Trois-Rivières, [2]Université de Montréal

3-C -129 ***Rab7 palmitoylation is required for efficient endo-some-to-TGN trafficking***

Graziana Modica[1], Olga Skorobogata[1], Etienne Sauvageau[1], Adriano Vissa[2], Christopher Yip[2], Peter Kim[2], Hugo Wurtele[3], Stephane Lefrançois[1]

[1]Institut National de la Recherche Scientifique, [2]University of Toronto, [3]Montreal University

3-C -130 ***Using a Cyclized SNK Conformation-Specific Antibody to Block the Propagation of Amyloid-β Aggregates Formation***

Sarah Louadi[1], Ebrima Gibbs[1], Catherine Cowan[1], Judith Silverman[1], Neil Cashman[1]

[1]Djavad Mowafaghian Centre for Brain Health, University of British Columbia

3-C -131 ***Effects of Exercise and Light Treatment on Neurogenesis and Spatial Learning in Aged Rats***

Jennifer McCreary[1], Melinda Wang[1], Mashal Fida[1], Robert Sutherland[1]

[1]University of Lethbridge, Canadian Centre for Behavioural Neuroscience

3-C -132 ***Sex-specific effects of creatine supplementation on spatial learning and memory in the 3xTg mouse model of Alzheimer's disease***

Wanda Snow[1], Chris Cadonic[1], Claudia Perez[1], Jelena Djordjevic[1], Kathleen Gough[2], Miyoung Suh[2]

[1]St. Boniface Hospital Albrechtsen Research Centre, [2]University of Manitoba

3-C -133 ***Examining the Effects of Lithium and Valproate on Max-gene expression: Implications in Bipolar Disorder (A Study-in-Progress)***

Roohie Sharma[1], Hetshree Joshi[1], Benicio Frey[2], Ram Mishra[1]

[1]McMaster University, [2]St. Joseph's Hospital

3-C -134 ***Impaired frontal beta desynchronization during an incentive motivation task in apathetic patients with Parkinson's disease***

Maria Zhu[1], Azadeh Haji Hosseini[1], Jonathan Schmok[1], Saurabh Garg[1], Soojin Lee[1], Martin McKeown[1]

[1]University of British Columbia

3-C -135 ***Targeted delivery of a tropomyosin receptor kinase A ligand to the brain using focused ultrasound***

Kristiana Xhima[1], Kelly Markham-Coultes[1], Horacio Uri Saragovi[2], Kullervo Hynynen[1], Isabelle Aubert[1]

[1]Sunnybrook Research Institute, [2]Lady Davis Institute for Medical Research

3-C -136 ***Disruption of the EF1α-Mdm2 interaction rescues behavioral deficits in a mouse model of fragile x syndrome***

Ping Su[1], Fang Liu[1]

[1]Centre for Addiction and Mental Health

D – Sensory and Motor Systems

3-D -137 ***Palinopallesthesia: A New Syndrome***

Neil Sondhi[1], Mina Al Sayyab[2], Alan Hirsch[3]

[1]Aureus University School of Medicine, [2]Caribbean Medical University, [3]Smell & Taste Treatment and Research Foundation

3-D -138 ***Reduced acoustic startle response and peripheral hearing loss in the 5xFAD mouse model of Alzheimer's disease.***

Timothy O'Leary[1], Richard Brown[1], Jian Wang[1]

[1]Dalhousie University

3-D -139 ***Serotonin mediates efficient adaptive optimized coding of second-order natural stimuli***

Chengjie Huang[1], Michael Metzen[1], Maurice Chacron[1]

[1]McGill University

3-D -140 ***Olfactory learning-induced plasticity-related protein activity varies across brain regions***

Michelle Tong[1], Madhura Raghavan[2], Jeffrey Pleiss[2], Thomas Cleland[2]

[1]Earlham College, [2]Cornell University

3-D -141 ***Dorsolateral prefrontal cortex activities following deactivation of anterior cingulate cortex in an antisaccade task in monkeys***

Liya Ma[1], Jason Chan[1], Kevin Johnston[1], Stephen Lomber[1], Stefan Everling[1]

[1]University of Western Ontario

3-D -142 ***Modeling pain caused by rattlesnake venom and beyond***

Ya Lan Yang[1], Ted Weita Lai[1]

[1]China Medical University

3-D -143 ***Development of presynaptic inhibition to dI3 INs involved in the maturation of hand grasp***

Carl Farah[1], Tuan Bui[1]

[1]University of Ottawa

3-D -144 ***Efficacy of Motor Imagery in Motor Rehabilitation of Upper Extremity in Multiple Sclerosis***

Amirhossein Ghassemi[1], Nasser Zangiabadi[1], Mahdieh Azin[2]

[1]Kerman University of Medical Sciences, [2]Rafsanjan University of Medical Sciences

3-D -145 ***Illuminating the function of inhibitory microcircuits in the zebrafish homolog of olfactory cortex***

Thomas Frank[1], Koichi Kawakami[2], Shin-ichi Higashijima[3], Rainer Friedrich[1]

[1]Friedrich Miescher Institute for Biomedical Research, [2]National Institute of Genetics, [3]National Institutes of Natural Sciences, Okazaki Institute for Integrative Bioscience, National Inst

3-D -146 ***Targeted high-throughput screening of olivocerebellar motor circuitry genes in essential tremor***

Jean-Francois Schmouth[1], Gabrielle Houle[1], Amirthagowri Ambalavanan[1], Claire Leblond[1], Sandra Beatrice-Laurent[1], Cynthia Bourrassa[1], Carles Vilarino-Guell[2], Alex Rajput[3], Patrick Dion[1], Guy Rouleau[1]

[1]McGill University, [2]University of British-Columbia, [3]University of Saskatchewan

3-D -147 ***The smell of fear: Pheromonal transmission of fear in adult rats***

Samantha Goodman[1], Iain MacIntyre[1], Qi Yuan[1]

[1]Memorial University of Newfoundland

3-D -148 ***Effectiveness of Tetrodotoxin in Promoting Anatomical Recovery from Monocular Deprivation in Kittens***

Paige Northrup[1], Kevin Duffy[1]

[1]Dalhousie University

3-D -149 ***Functional contribution of the mesencephalic locomotor region to locomotor control***

Nicolas Josset[1], Marie Roussel[1], David Lafrance-Zougba[1], Frederic Bretzner[1]

[1]Centre de recherche du CHU de québec

3-D -150 ***Decoding of spatio-temporal olfactory codes: when neural coding predicts decoder?s connectome.***

Gary Marsat[1]

[1]West Virginia University

3-D -151 ***Single-axon tracing study of the hyperdirect pathway in monkeys***

Dymka Coudé[1], André Parent[1], Martin Parent[1]

[1]Université Laval

3-D -152 ***The reciprocal relationship between somatosensory and object processing***

Chelsea Ekstrand[1], Josh Neudorf[1], Ron Borowsky[1]

[1]University of Saskatchewan

3-D -153 ***Voluntary running exercise attenuates behavioural signs of pain and reduces pathological nerve sprouting in intervertebral discs in a mouse model of low back pain***

Seunghwan Lee[1], Magali Millecamps[1], Laura Stone[1]

[1]McGill University

3-D -154 ***Associative Cortico-Muscular Stimulation to Induce Persistent Corticospinal Plasticity in Rodents***

Windsor Ting[1], Saravanan Subramaniam[1], Christian Éthier[1]

[1]CRIUSMQ

3-D -155 ***Visual saliency response in the superficial and intermediate superior colliculus.***

Janis Kan[1], Laurent Itti[2], Douglas Munoz[1], Brian White[1]

[1]Queen's University, [2]University of Southern California

3-D -156 ***Thermal stimulations of the face induce forelimb muscle responses in in vitro preparations of newborn opossums, Monodelphis domestica***

Edith Corriveau-Parenteau[1], Nisrine Hafidi[1], Thérèse Cabana[1], Jean-François Pflieger[1]

[1]Université de Montréal

3-D -157 ***The Prototypical Spatial Pattern of the Brain during Movie Viewing***

Angela Zhang[1], Sebastien Proulx[1], Yiran Chen[1], Hassan Akhavein[1], Reza Farivar[1]

[1]McGill University

3-D -158 ***Distinction of itch and pain sensation by a single population of C-fibers***

Behrang Sharif[1], Ariel Ase[2], Alfredo Ribeiro da Silva[2], Philippe Séguéla[2]

[1]McGill, [2]McGill University

3-D -159 ***Delayed Sox9 ablation in a mouse model of chronic spinal cord injury***

Natalie Ossowski[1], Russell MacMillan[1], Nicole Geremia[1], Todd Hryciw[1], Kathy Xu[1], Arthur Brown[1]

[1]Western University

3-D -160 ***The Role of Network Connectivity in the Speed of Neural Synchronization***

Ezekiel Williams[1], Illya Kozak[2], John Lewis[2]

[1]Carleton University, [2]University of Ottawa -- Brain and Mind Research Institute

3-D -161 ***Granulocyte-colony stimulating factor (G-CSF) mediates central sensitization underlying chronic visceral pain following inflammation***

Lilian Basso[1], Tamia Lapointe[1], Mircea Iftinca[1], Deborah Kurrasch[1], Christophe Altier[1]

[1]University of Calgary

3-D -162 ***Frontal eye fields (FEF) contributes differentially to collicular preparatory activity for short versus long latency saccade***

Suryadeep Dash[1], Tyler Peel[1], Stephen Lomber[1], Brian Corneil[1]

[1]Western University

3-D -163 ***An implicit approximate normalization model for multi-sensory integration across reference frames***

Parisa Abedi Khoozani[1], Dominic Standage[1], Gunnar Blohm[1]

[1]Queen's University

3-D -164 ***Dopaminergic modulation of song preference in the female zebra finch***

Helena Barr[1], Sarah Woolley[1]

[1]McGill University

3-D -165 ***Identification of cortical neurons active during stroke recovery***

Marc Vani[1], Diane Lagace[2]

[1]University of Ottawa, Brain and Mind Research Institute, Canadian Partnership for Stroke Recovery, [2]University of Ottawa

3-D -166 ***Neurophysiological basis of bilateral differences in manual forces in young and older adults***

Jonathan Houle[1], Anthony Remaud[2], Francois Tremblay[1]

[1]University of Ottawa, [2]Bruyere Research Institute

3-D -167 ***MR-based age- and sex-related effects on the striatum, globus pallidus and thalamus in healthy individuals across the adult lifespan***

Stephanie Tullo[1], Alyssa Salaciak[2], Saashi Bedford[1], Mallar Chakravarty[3]

[1]McGill University, [2]Douglas Mental Health University Institue, [3]Douglas Mental Health University Institue; McGill University

E – Homeostatic and Neuroendocrine Systems

3-E -168 ***Glycemic state alters adropin responsiveness of rat paraventricular nucleus neurons***

Spencer Loewen[1], Alastair Ferguson[1]

[1]Queen's University

3-E -169 ***Characterization of Prolactin Action in the Subfornical Organ***

Anusha Kamesh[1], Alastair Ferguson[1]

[1]Queen's University

3-E -170 ***Depression as a Gut Feeling: The role of the gut microbiome in the link between early life stress, inflammation, and adult depression***

Sarah Barnett Burns[1], J. Kasia Szyszkowicz[1], Florence Brun[1], Gustavo Turecki[1], Giamal Luheshi[1]

[1]McGill University

3-E -171 ***The Changes in Mean Platelet Volume after Using Antiplatelet Drugs in Acute Ischemic Stroke: A Randomized Controlled Trial***

Pasiri Sithinamsuwan[1], Rojanant Haungsaithong[1]

[1]Division of Neurology

3-E -173 ***Salt loading promotes synchronization of vasopressin neurons in the supraoptic nucleus***

Zahra Thirouin[1], Katrina Choe[1], Charles Bourque[1]

[1]Research Institute at MUHC

3-E -174 ***Antibiotic treatment prevents stress-induced plasticity***

Agnieszka Zurek[1], Dinara Baimoukhametova[1], Toni-Lee Sterley[1], Nuria Daviu-Abant[1], Jaideep Bains[1]

[1]University of Calgary

F – Cognition and Behaviour

3-F -175 ***Phasic optogenetic stimulation of mesolimbic dopaminergic terminals in the nucleus accumbens reinforces the value of a goal-directed action in operant conditioning***

Suzanne van der Veldt[1], Stéphane Valerio[2], Giamal Luheshi[1], Cyril Herry [2], Pierre Trifilieff[3]

[1]Douglas Mental Health University Institute, Department of Psychiatry, McGill University, Quebec, Can, [2]INSERM, Neurocentre Magendie, U862, [3]INRA, Nutrition et Neurobiologie intégrée, UMR 1286

3-F -176 ***Implications of the translational repressors 4E-BP1 and 4E-BP2 in sleep architecture and EEG activity***

Cassandra C. Areal[1], Ruifeng Cao[2], Nahum Sonenberg[3], Valérie Mongrain[1]

[1]Hôpital du Sacré-Coeur de Montréal, [2]University of Minnesota Medical School, [3]McGill University

3-F -177 ***Functional cognitive reserve is related to enhanced activity of adult-born dentate granule neurons***

Olga Shevtsova[1], Yao-Fang Tan[1], Christina Merkley[1], Gordon Winocur[2], Martin Wojtowicz[1]

[1]University of Toronto, [2]Rotman Research Institute

3-F -178 ***Cholinergic agonist carbachol increases delay activity and reduces task selectivity in macaque prefrontal cortex***

Alex Major[1], Susheel Vijayraghavan[1], Stefan Everling[1]

[1]The University of Western Ontario

3-F -179 ***Optogenetic activation of the infralimbic cortex inhibits context-induced renewal of Pavlovian sucrose-seeking***

Franz Villaruel[1], Nadia Chaudhri[1]

[1]Concordia University

3-F -180 ***NCK1 Knockout Mice Display Anxiety-like Behaviour and Memory Impairments***

Antonios Diab[1], Jiansong Qi[1], Crystal Milligan[1], James Fawcett[1]

[1]Dalhousie University

3-F -181 ***Adiponectin is required for physical exercise to restore hippocampal neurogenesis in streptozotocin-induced diabetic mice***

Sonata Yau[1], Ang Li[2], Aimin Xu[3], Kwok-fai So[4]

[1]Hong Kong Polytechnic University, [2]Jinan University, [3]University of Hong Kong , [4]University of Hong Kong

3-F -182 ***Resting State Connectivity of Striatum and Midbrain Nuclei: Relation to Impulsivity, Sensation-Seeking and Body Weight***

Rachel Sharkey[1], Josiane Bourque[2], Kevin Larcher[1], Yu Zhang[1], Ayca Altinkaya[1], Abbas Sadikot[1], Alan Evans[1], Hugh Garavan[3], Marco Leyton[1], Jean Seguin[2], Robert Pihl[4], Patricia Conrod[2], Alain Dagher[1]

[1]Montreal Neurological Institute, [2]Universite de Montreal, [3]University of Vermont, [4]McGill University

3-F -183 ***The effects of intermittent theta-burst stimulation on working memory in patients with major depressive disorder***

Yu Qing Liu[1], Roumen Milev[1]

[1]Queen's University

3-F -184 ***Continuous D-Amphetamine treatment during intermittent cocaine self-administration attenuates incentive motivation for cocaine and cocaine-induced reinstatement of drug seeking***

Florence Allain[1], Anne-Noël Samaha[1]

[1]Université de Montréal

3-F -185 ***Characterizing the neural networks supporting conceptually and spatially guided retrieval of autobiographical memories***

Lauri Gurguryan[1], Signy Sheldon[1]

[1]McGill University

3-F -186 ***Chemogenetic silencing of midbrain dopamine neurons and their projections to the nucleus accumbens core attenuates Pavlovian alcohol-seeking behaviour***

Milan Valyear[1], Ivan Trujillo-Pisanty[2], Franca Lacroix[1], Peter Shizgal[1], Nadia Chaudhri[1]

[1]Concordia University, [2]University of North Carolina at Chapel Hill

3-F -187 ***Calcium imaging of medial septal glutamatergic neurons in freely-behaving mice***

Jean-Bastien Bott[1], Etienne Gauthier-Lafreniere[1], Sylvain Williams[1]

[1]Douglas mental health institute, McGill University

3-F -188 ***The effect of norepinephrine release on odor discrimination learning in adult rats***

Faghihe Massaeli[1], Vanessa Strong[1], Carolyn Harley[1], Xihua Chen[1], Qi Yuan[1]

[1]Memorial University of Newfoundland

3-F -189 ***Susceptibility to chronic social defeat is related to increased hippocampal engram cells in the CA1 region***

Tian Rui Zhang[1], Alice Wong[1], Vanessa Wong[1], Tak Pan Wong[1]

[1]Douglas Mental Health University Institute

3-F -190 ***The flexibility of combined attention: An examination of manual and oculomotor responses.***

Christopher Blair[1], Jelena Ristic[1]

[1]McGill University

3-F -191 ***Investigation of the Roles of Ndel1 in the Postnatal Hippocampus***

Ivana Kiroski[1], Minh Dang Nguyen [1]

[1]University of Calgary

3-F -192 ***Paying Attention to Normal Aging and Cardiovascular Risk Factors on Cognitive Variability.***

Chad Vachon[1], Kristoffer Romero[1], Stevie Howell[1], Guy Proulx[1]

[1]York University

3-F -193 ***Oscillatory representation of olfactory associations during episodic memory encoding in humans***

Anne-Lise Saive[1], Jean-Pierre Royet[2], Etienne Combrisson[2], David Meunier[2], Samuel Garcia[2], Marc Thévenet[2], Sylvain Rheims[3], Jean Isnard[3], Jane Plailly[2], Nadine Ravel[2], Karim Jerbi[4]

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3-F -194 ***Episodic-like memory and Arc expression in Goto-Kakizaki rats***

Diano Marrone[1], Chelsey Damphouse[1], Briana Renda[1]

[1]Wilfrid Laurier University

3-F -195 ***Long-term effects of adolescent chronic stress on TBI cognitive and emotional impairments in adult male rats***

Patricia B. de la Tremblaye[1], Corina O. Bondi[2], Anthony E. Kline [2]

[1]University of Ottawa, [2]Safar Center for Resuscitation Research, University of Pittsburgh

3-F -196 ***The neurobiology underlying partially observable Markov decision processes***

Sankirthana Sathiyakumar[1], Blake Richards[2]

[1]University of Toronto, [2]University of Toronto

3-F -197 ***Interactions of Reading and Semantics Along the Ventral and Dorsal Visual Processing Streams***

Josh Neudorf[1], Chelsea Ekstrand[1], Ron Borowsky[1]

[1]University of Saskatchewan

3-F -198 ***Cue-place memory representation and interaction in CA1 during spatial navigation and reorientation in rats.***

Justin Lee[1], Deryn LeDuke[2], Robert McDonald[1], Robert Sutherland[1]

[1]The University of Lethbridge, [2]Quest University Canada

3-F -199 ***Feature cells remap place selectivity in virtually navigating primates***

Roberto Gulli[1], Guillaume Doucet[1], Benjamin Corrigan[2], Lyndon Duong[2], Sylvain Williams[1], Julio Martinez-Trujillo[2]

[1]McGill University, [2]University of Western Ontario

3-F -200 ***High dose running wheel exercise attenuates exercise-induced hippocampal neurogenesis in the rat***

Matthew McDonald[1], Carine Nguemeni[1], Matthew Jeffers[1], Jessica Livingston-Thomas[1], Diane Lagace[1], Dale Corbett[1]

[1]University of Ottawa

3-F -201 ***Examining sex differences in anxiety-related behavior and hippocampal activity in rats***

Christina Ou[1], Hans Dringeberg[1]

[1]Queen's University

3-F -202 ***Exploring the Aversive Properties of Impaired Glucose Metabolism in Laboratory Rats***

Thomas Horman[1], Fernanda Fernandez [1], Francesco Leri[1]

[1]University of Guelph

3-F -203 ***Improving visual perception in blindness: Multisensory training and electrophysiological evaluation of blindsight***

Vanessa Hadid[1], Michèle W. Maclean[1], Dang Khoa Nguyen[2], Franco Lepore[1]

[1]Université de Montréal, [2]University of Montreal Hospital Centre

3-F -204 ***How is neural activity in PMd and PPC influenced by bottom-up and top-down information about the value of reach choices?***

Ayuno Nakahashi[1], Paul Cisek[1]

[1]Université de Montréal

3-F -205 ***Susceptibility to chronic social defeat is related to decreased hippocampal extrasynaptic NMDA receptor function in the CA1 region***

Yiu Chung Tse[1], Joëlle Lopez[1], Alice Wong[1], Tak Pan Wong[1]

[1]Douglas Mental Health University Institute

3-F -206 ***Assessing audiovisual temporal processing using prepulse inhibition and brainstem electrophysiology***

Kaela Scott[1], Ashley Schormans[1], Brian Allman[1], Susanne Schmid[1]

[1]University of Western Ontario

3-F -207 ***Socially induced hyperalgesia in an inflammatory pain model***

Navdeep Lidhar[1], Sivaani Sivaselvachandran[1], Maria Malik[1], Meruba Sivaselvachandran[1], Loren Martin [1]

[1]University of Toronto

3-F -208 ***Pavlovian alcohol-seeking in rats: testing relapse using context-conditioned reinstatement and spontaneous recovery***

Mandy LeCocq[1], Nadia Chaudhri[1]

[1]Concordia University

3-F -209 ***Anxiety- and depression-like behaviours and memory impairment associated with elevated oxidative stress***

Nicole Czegledy[1]

[1]Queen's University

3-F -210 ***Roles of the prelimbic and infralimbic prefrontal cortex in operant responding to appetitive, aversive and conflicting cues***

Laurie Hamel[1], Bilgehan Cavdaroglu[1], Rutsuko Ito[1]

[1]University of Toronto

3-F -211 ***Hippocampal Involvement in a Binary Choice Reward Task***

Scott Wong[1], Justin Lee[1], Jillian Metcalfe[1], Sienna Randolph[1], Robert Sutherland[1], Aaron Gruber[1]

[1]University of Lethbridge

3-F -212 ***Delta opioid signaling promotes resilience to chronic stress in mice under the repeated social defeat paradigm***

Mathilde S. Henry[1], Kanchan Bisht[1], Nathalie Vernoux[1], Louis Gendron[2], Guy Drolet[1], Marie-Ève Tremblay[1]

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3-F -213 ***Probing pathway specific control of reward-seeking behaviour with in vivo optogenetic inductions of synaptic plasticity***

Christopher Lafferty[1], Sean Reed[1], Jesse Mendoza[1], Steven Zhang[1], Louis Huynh[1], Jonathan Britt[1]

[1]McGill University

3-F -214 ***Studying the Effect of Heartfulness Meditation on Brain Activity***

Anirudh Kumar[1], Norman Farb[1], Pallavi Gupta[2], Abdul Subhan[1], Jahnavi Mundluru[2], Shankar Patmaknathan[1], Arth Patel[1]

[1]University of Toronto, [2]Queens University

3-F -215 ***Neuroanatomical Correlates of Home Cage Mouse Social Behaviour***

Darren Fernandes[1], Lily Qiu[2], Mark Henkelman[1], Jason Lerch[1]

[1]University of Toronto, [2]Hospital For Sick Children

3-F -216 ***Pre-existing difference in D1-MSN activity associates with susceptibility to depression-like behaviour***

Jessie Muir[1], Rosemary Bagot[1]

[1]McGill University

3-F -217 ***Single-trial measures of shared variability in area MT predict behavioral performance independent of firing rate***

Alireza Hashemi[1], Ashkan Golzar[1], Jackson Smith[2], Erik Cook[1]

[1]McGill University, [2]Oxford University

3-F -218 ***Role of physical contact during prior social interaction for social modulation of pain in a mouse model of Autism Spectrum Disorder***

Xxx Yini[1], Irene Lecker[1], Jeff Mogil[1], Robert Bonin[1]

[1]University of Toronto

3-F -219 ***Defining the Nature of Emotional Conflict Task Performance in Individuals with Major Depressive Disorder and Healthy Controls***

Gésine Alders[1], Andrew Davis[1], Jonathan Downar[2], Jacqueline Harris[3], Mojdeh Zamyadi[4], Gulshan Sharma[3], Stephen Arnott[4], Stephen Strother[2], Stefanie Hassel[3], Glenda MacQueen[3], Luciano Minuzzi[1], Geoffrey Hall[1]

[1]McMaster University, [2]University of Toronto, [3]University of Calgary, [4]Baycrest

3-F -220 ***Investigating the functional and mechanistic impact of H2A.Z in associative learning and memory formation***

Cindy Tao[1]

[1]University of Toronto

3-F -221 ***Role of Prior Knowledge on Neocortical Learning: A Bayesian Perspective***

Hannah Marlatte[1], Eve Attali[2], Malcolm Binns[2], Asaf Gilboa[1]

[1]University of Toronto; Rotman Research Institute, Baycrest Health Sciences, [2]Rotman Research Institute, Baycrest Health Sciences

G – Novel Methods and Technology Development

3-G -222 ***Quantifying Neural Stem Cell Deficits in Neurodevelopmental Disorders***

Nuwan Hettige[1], Étienne Labrie-Dion[1], Karla Vargas[1], Huashan Peng[1], Carl Ernst[1]

[1]Douglas Mental Health University Institute

3-G -223 ***TSPO ligand as a promotive agent in neuroprotection and neuroregeneration after severe cervical spinal nerve injury in rats***

Shiwei Wang[1], Diya Su[2], Michael Schumacher[1], Song Liu[1]

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3-G -224 ***Transcriptomic profiling of hippocampal VIP-GABAergic neurons using patch-sequencing technique***

Einer Muñoz-Pino[1], Xiao Luo[2], Maxime Vallée[2], Arnaud Droit[2], Lisa Topolnik[2]

[1]Université Laval, [2]Laval University

3-G -225 ***Instantaneous Tracking and Quantification of Local Protein Synthesis In Vivo***

Ibrahim Kays[1], Chiu-An Lo[1], Brian Chen[2]

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3-G -226 ***Simple platform for chronic imaging of hippocampal activity during spontaneous behaviour in an awake mouse***

Vincent Villette[1], Mathieu Levesque[1], Amine Miled[1], Benoit Gosselin[1], Lisa Topolnik[1]

[1]Laval University

3-G -227 ***Detecting and characterizing repetitive movements in children with ASD.***

Jerome Carriot[1], David Li[1], Robert Nicolson[1], Julio Martinez-Trujillo[1]

[1]University of Western Ontario

3-G -228 ***Development of a new algorithm for automated neuroanatomic segmentation in the adult mouse brain***

Jérôme Lamontagne-Proulx[1], Thomas Baubier[1], Bénédicte Chatelais[1], Denis Soulet[1]

[1]Centre hospitalier de l'université Laval

3-G -229 ***Nanocontact printing of netrin-1 to study cellular haptotaxis and navigation***

Mcolisi Dlamini[1], Tim Kennedy[1], David Juncker[1]

[1]McGill University

3-G -230 ***A Spinal Cord Phantom to Test and Standardize MEGA-PRESS gamma-aminobutyric acid (GABA) Measurements***

Nicholas Simard[1], Diana Harasym[1], Aimee Nelson[1], Michael Noseworthy[1]

[1]McMaster University

3-G -231 ***A critical assessment of functional methods to detect and quantify silent synapses***

Michael Lynn[1], Kevin Lee[2], Jean-Claude Béïque[1]

[1]University of Ottawa, [2]Queens University

3-G -232 ***Comparing the Expression of Genes Related to Neurogenesis Process in C57BL/6J Mice Based on Data Available at the Allen Institute for Brain Science Website***

César Acevedo-Triana[1], Luis Silva[2]

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3-G -233 ***Development of a multi-colour optogenetic toolkit for studying cAMP and cGMP in living neurons***

Megan Valencia[1], T. Tyler Luyben[1], Kenichi Okamoto[1]

[1]University of Toronto

3-G -234 ***Automated fine-scale three-dimensional paw tracking and posture classification system in mice***

Matilde Balbi[1], Anna Xiao Luo[1], Luis Bolanos[1], Federico Bolanos[1], Jeffrey LeDue[1], Timothy Murphy[1]

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H – History, Teaching, Public Awareness and Societal Impacts in Neuroscience

3-H -235 ***The Pedagogy of Vernacular Neuroscience across Higher Education Curriculum: Time to Bridge the Divide?***

Andrea Valente[1]

[1]York University

3-H -236 ***Inducing critical thought in the era of the fast and furious availability of information: A focus on Neurohealth students***

Anne Konkle[1], Raywat Deonandan[1]

[1]University of Ottawa

3-H -237 ***BrainReach North - Mission Cerveau Nord***

Ian Beamish[1], Suna Jung[1], Kelly Smart[1]

[1]McGill University

3-H -238 ***A History of Endocrine Disrupting Compounds and Their Role in Neurodevelopment***

Laurie Laird[1], Natalina Salmaso[1], Matthew Holahan[1]

[1]Carleton University

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3-IBRO-239 ***Cerebrolysin remodels neuronal morphology in the limbic system and improving behavioral deficits in a rat model of autism***

María Bringas Tobón[1], Fidel De La Cruz[2], Gonzalo Flores Alvarez[1]

[1]Benemerita Universidad Autonoma de Puebla, [2]Instituto Politécnico Nacional

3-IBRO-240 ***Anti-seizure activity of Annona Senegalensis on the Genetic Epilepsy with Febrile Seizure Plus (GEFS+) model in Drosophila Melanogaster***

Samuel Dare[1], Jimena Berni[2]

[1]Kampala International University Western Campus Uganda, [2]University of Cambridge

3-IBRO-241 ***Chronic exposure to the anti-HIV Drug, nevirapine, impairs cognitive function, promotes oxidative stress, β-secretase 1 expression and increases β-amyloid plaques in mouse hippocampus***

Simo Zulu[1], Oualid Abboussi[1], Nicola Simola[2], Musa Mabandla[1], William Daniels[3]

[1]University of KwaZulu-Natal, [2]University of Cagliari, [3]University of the Witwatersrand

3-IBRO-242 ***Oxidative damage impairs cholinergic function in cultured neurons exposed to Amyloid-beta oligomers***

Luis Santos[1], Cícero Figueiredo-Freitas[1], Sergio Ferreira[1], Fernando de Mello[1]

[1]UFRJ

A Development

B Neural Excitability, Synapses & Glia: Cellular Mechanisms

C Disorders of the Nervous System

D Sensory & Motor Systems

E Homeostatic & Neuroendocrine Systems

F Cognition & Behaviour

G Novel Methods & Technology Development

H History, Teaching, Public Awareness and Societal Impacts in Neuroscience

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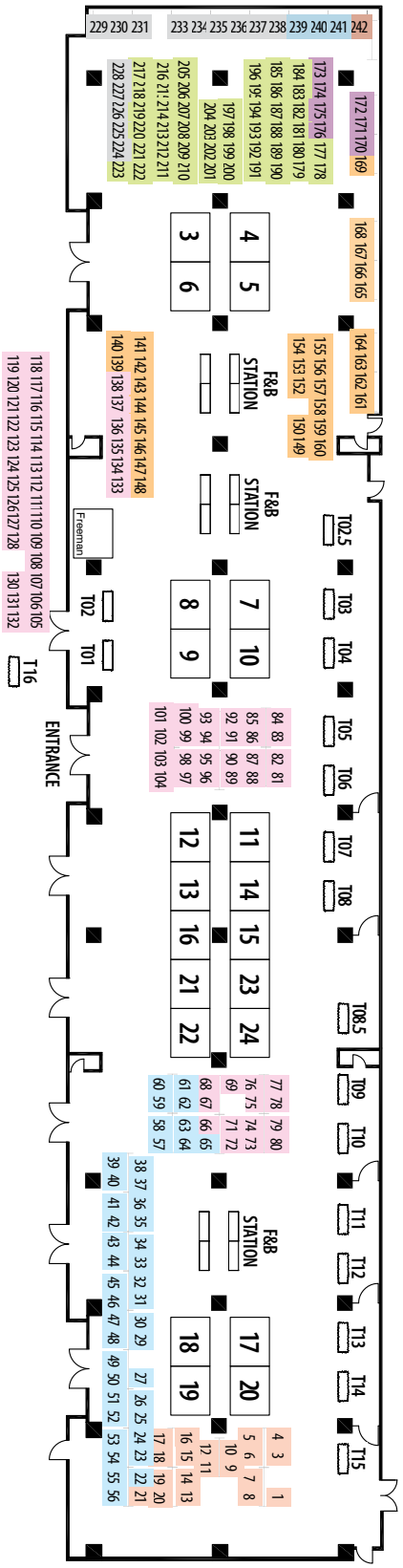
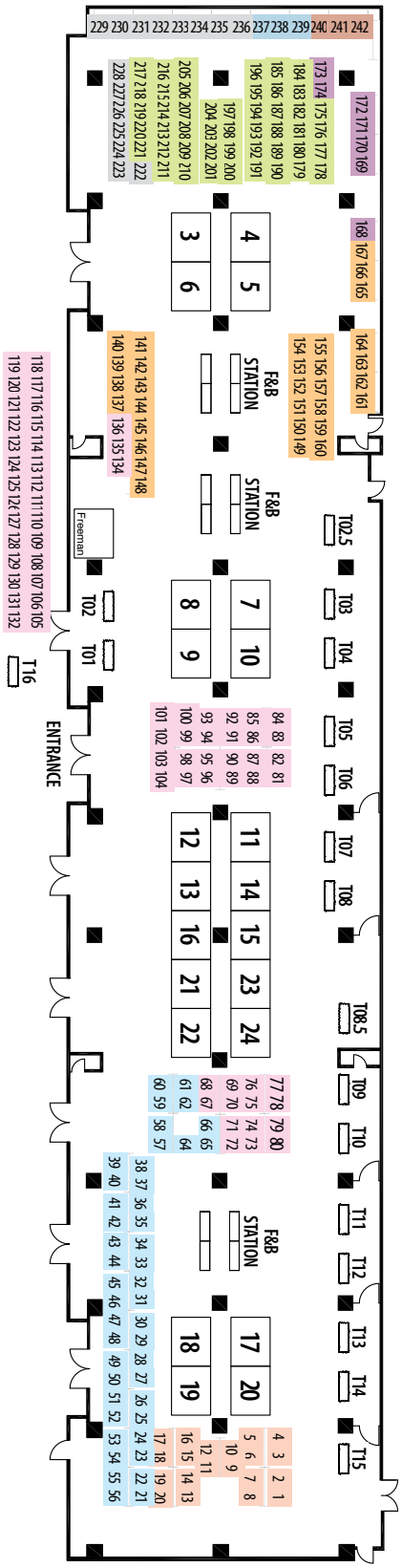
Notes

POSTER FLOOR PLANS

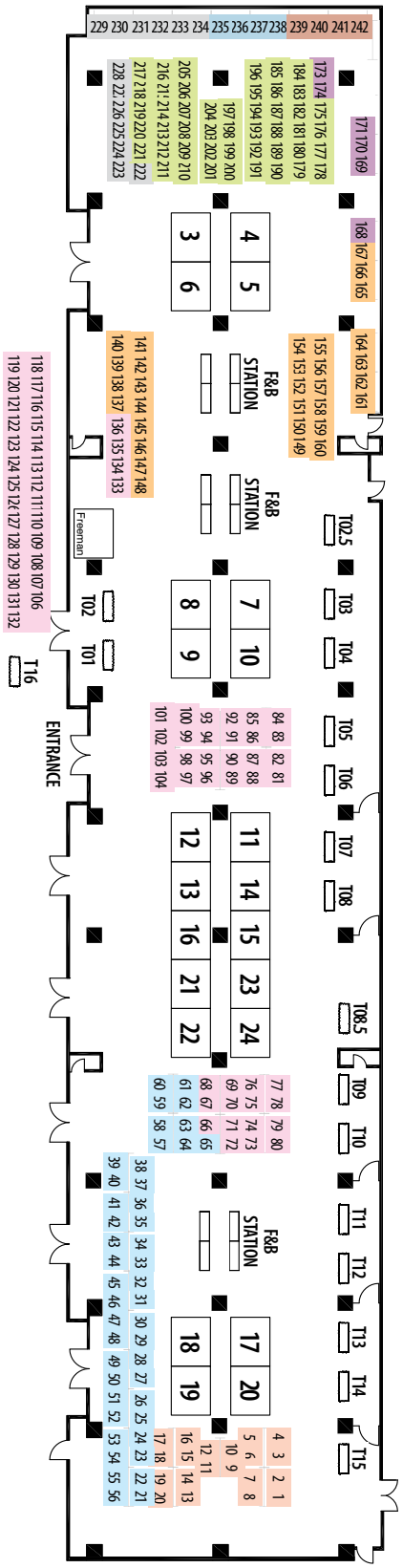
Day 1
Monday, May 29



Day 2
Tuesday, May 30



Day 3
Wednesday, May 30



POSTER FLOOR PLANS

Exhibitor	Location
ALZET Osmotic Pumps/DURECT Corp	T 01
Ananda Devices	T 11
Animal Care Systems	T 06
ANT North America Inc.	T 08.5
Blackrock Microsystems	T 13
Brain Vision Solutions	Booth 11
Canadian Institutes of Health Research (CIHR)	Booth 16
The Canadian Neurophotonics Platform	T 16
Centre for Drug Research and Development	Booth 13
Clever Sys Inc.	T 2.5
Convergence	T 15
g.tec medical engineering GmbH	Booth 5
GALLERIESherrington	T 02
Harvard Apparatus Canada	Booth 18
Huron Digital Pathology	Booth 20
Koven Technology Canada Inc.	T 09
Lafayette-Campden Neuroscience	Booth 15
Mightex Systems	Booth 3
Neuralynx, Inc.	Booth 6
Neurescence Inc.	T 07
Neurological Health Charities Canada	T 14
Neurotar	Booth 21
NIKON CANADA INC	Booth 7
Noldus Information Technology	Booth 9
Olympus Canada Inc.	Booth 22
Parkinson Canada	T 04
PeproTech, Inc.	Booth 17
Plexon	T 05
Precision NanoSystems Inc.	Booth 12
Sable Systems International	Booth 8
Society for Neuroscience	Booth 14
Spectra-Physics	T 12
Stoelting Co.	Booth 19
Thermo Fisher	Booth 23
Tobii Pro	Booth 10
Tucker - Davis Technologies	Booth 24
Université Laval	T 08
University of Manitoba	T 03
Zantiks Ltd	T 10

Notes

Thanks to our exhibitors

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