Table of contents

2 Leadership
7 Annual meeting agenda
15 MNN visiting speaker and seminar series schedule
19 BAW activities
20 Outreach activities
21 Financial Report
Leadership

Executives

President
Chris Anderson, PhD
Director – Neuroscience Research Program
SR452 Kleysen Bldg.
T 204.318.2565
chris.anderson@umanitoba.ca

Treasurer
Paul Feryhough, PhD
Dept Pharmacology & DND
R4046 SBRC
T 204.235.3692 F 204.237.4092
pfernyhough@sbrc.ca
Leadership

Councillors

Brent Fedirchuk, PhD
Dept of Physiology
410 BMSB
T 204.789.3762
brent@scrc.umanitoba.ca

Tammy Ivanco, PhD
Dept of Psychology
P430 Duff Roblin Bldg
T 204.474.7375
tammy.ivanco@umanitoba.ca
Leadership

Networking

**Director**
Chris Anderson, PhD
Neuroscience Research Program
SR452 Kleysen Bldg.
T 204.318.2565
chris.anderson@umanitoba.ca

**Seminar Series Chair**
Tabrez Siddiqui, PhD
Dept. of Physiology & Pathophysiology
Neuroscience Research Program
SR452 Kleysen Bldg.
T 204.318.2564
Leadership

Outreach

Outreach
Sari Hannila, PhD
Dept. of Human Anatomy Cell Science
128 Basic Med Sciences Bldg.
T 204.789.3843
sari.hannila@umanitoba.ca

Social Media
Crystal Acosta, PhD
Neuroscience Research Program
SR4 KIAM
T 204.318.2569
info@manitobaneuroscience.ca

Information Services
Gilles Detillieux
SCRC Systems Analyst
Physiology, 416 BMSB
T 204.789.3576
gilles@scrc.umanitoba.ca
Leadership

Administration

Coordinator (Membership & Operations)
Kelly Jorundson
Division of Neurodegenerative Disorders
R4046 SBRC T 204.235.3939
info@manitobaneuroscience.ca

Chapter Governance
Sharon McCartney
Physiology, 409 BMCB
T 204.789.3770
sharon@scrc.umanitoba.ca

Information Services
Gilles Detillieux
SCRC Systems Analyst
Physiology, 416 BMSB
T 204.789.3576
gilles@scrc.umanitoba.ca
Annual Meeting

The 2019 MNN Scientific Meeting was held on June 7, 2019 at the University of Winnipeg. The meeting was co-Chaired by Drs. Renee Douville and Domenico Di Curzio. The scientific theme of this meeting was: Neuropathology.

The program featured two keynote speakers:

Dr. Daniel Goldowitz from the University of British Columbia, who is an internationally recognized Canadian Research Council Chair in Developmental Neurogenetics.

Dr. Janice Robertson from the University of Toronto, a leading expert in Amyotrophic Lateral Sclerosis (ALS) neuropathology and therapeutic development.

Trainees participated in a poster session/competition, which was followed by a networking mixer and neuroscience art silent auction fundraiser at the Winnipeg Art Gallery.
Annual Meeting

Program

Friday, June 7, 2019

8:30  Registration Desk Open

9:00  Opening Remarks

Dr. Domenico Di Curzio & Dr. Renée Douville
Co-chairs - 2019 MNN Scientific Meeting
Departments of Psychology and Biology,
University of Winnipeg

SESSION 1: GENETICS OF NEURODEVELOPMENT

KEYNOTE

9:10  Big data in service of better research and care: Tales from the bench

Dr. Daniel Goldowitz
Professor – Department of Medical Genetics, University of British Columbia
Member of Centre for Molecular Medicine and Therapeutics and BC Children’s Hospital Research Institute
Annual Meeting

Program

10:00  Genetics and Intellectual Disabilities

SP-1  Dr. Albert Chudley
Professor Emeritus, Rady Faculty of
Health Sciences, Max Rady College of
Medicine, University of Manitoba

9:25  Candrive: a longitudinal, multi-disciplinary
project assessing medical fitness to drive in
older adult

10:30  Refreshment & exercise break

SESSION 2: HISTORICAL PERSPECTIVES ON
NEUROPATHOLOGY

10:45  Neuropathology, Surgery, and the Discovery
of Intracerebral Vascular Nerves

SP-2  Dr. Delia Gavrus
Associate Professor and Chancellor’s
Research Chair
History Department, University of Winnipeg
Annual Meeting

Program

KEYNOTE

11:10  Neuropathology of Parkinsonism: a clinician’s perspective

Dr. Alex Rajput
Director, Saskatchewan Movement Disorders Program
Division of Neurology, Department of Medicine, University of Saskatchewan

SESSION 2 BREAKOUT: EMOTIONAL & COGNITIVE NEUROSCIENCE

10:45  Neuroimaging Investigations of the Autonomous Sensory Meridian Response (ASMR)

SP-3  Dr. Stephen Smith
Professor, Department of Psychology, University of Winnipeg
Adjunct Professor, Department of Psychology, University of Manitoba
Annual Meeting

Program

11:10 Exploring the potential of Sharing Dance for people living with dementia and carers

SP-4 Dr. Rachel Herron
Associate Professor, Department of Geography and Environment, Brandon University

11:35 Learning to Read Changes the Dynamics of Spoken Language Processing

SP-5 Dr. Amy Desroches
Associate Professor, Department of Psychology, University of Winnipeg

12:00 Taco bar lunch

1:00 Welcome address

Dr. Annette Trimbee
President, University of Winnipeg
Annual Meeting

Program

SESSION 3:  NEURO-ONCOLOGY

1:10  
Dissecting cellular heterogeneity in search of new therapeutic targets for medulloblastoma

SP-6  
Dr. Tamra Werbowetski-Ogilvie  
Associate Professor, Regenerative Medicine Program, University of Manitoba  
Departments of Biochemistry & Medical Genetics / Physiology & Pathophysiology  
Canada Research Chair in Neuro-oncology and Human Stem Cells

1:35  
Proteomics of adult brain tumors for the discovery of novel biomarkers and treatments

SP-7  
Dr. Thomas Klonisch  
Department Head, Department of Human Anatomy and Cell Science  
Max Rady College of Medicine, University of Manitoba
Annual Meeting

Program

2:00  *Brain metastasis – a fatal complication*

*SP-8*  
**Dr. Sabine Hombach-Klonisch**  
Associate Professor and Section Head Gross Anatomy  
Department of Human Anatomy and Cell Science, University of Manitoba

2:25  **Poster session, refreshments & exercise break**

**SESSION 4: FOCUS ON ALS**

3:45  *Raltegravir effectively reverses ERVK integrase-mediated pathology*

*SP-9*  
**Dr. Domenico Di Curzio**  
Postdoctoral Fellow, Douville Lab, Department of Biology, University of Winnipeg  
Lecturer/Instructor, Department of Psychology, University of Winnipeg
Annual Meeting

Program

KEYNOTE
4:05  Amyotrophic Lateral Sclerosis and Frontotemporal Dementia: a Disease Spectrum

Dr. Janice Robertson
The James Hunter Family Chair in Amyotrophic Lateral Sclerosis Research Professor, Tanz Centre for Research in Neurodegenerative Diseases Department of Laboratory Medicine and Pathobiology, University of Toronto

4:50  Closing remarks

Dr. Domenico Di Curzio & Dr. Renée Douville Co-chairs - 2019 MNN Scientific Meeting

WAG EVENT
5:00–7:00  Winnipeg Art Gallery networking mixer & neuroscience art silent auction
Seminar & Visiting Speaker Series

Dr. Keith Murai January 14, 2019
Director for the Centre for Research in Neuroscience
Professor, Neurology & Neurosurgery, Faculty and Department of Medicine
Research Institute of the McGill University Health Centre

Astrocyte diversity and brain circuit microenvironments

Dr. Saeid Ghavami January 25, 2019
Assistant Professor
Human Anatomy & Cell Science
Rady Faculty of Health Sciences

Glioblastoma and Cholesterol Metabolism Pathway
Dr. Spencer Gibson March 29, 2019
Professor, Department of Immunology & Biochemistry and Medical Genetics
Director, Manitoba Institute of Cell Biology
Senior Scientist, Research Institute in Oncology and Hematology
Director, Translational Research
University of Manitoba

Understanding the regulation of cell death in glioblastoma.
Context Matters?

Dr. David Amaral May 6, 2019
Professor, Faculty of Medicine
McGill University

Recent Advances in our Understanding of the Causes and Effects of Autism Spectrum Disorder
Seminar & Visiting Speaker Series

Dr. Tamra Ogilvie May 31, 2019
Canada Research Chair in Neuro-oncology and Human Stem Cells
Associate Professor, Regenerative Medicine Program
Biochemistry & Medical Genetics and Physiology & Pathophysiology
Max Rady College of Medicine
Rady Faculty of Health Sciences
University of Manitoba

*Novel gene networks regulating self-renewal and differentiation in medulloblastoma*

Dr. Tiina Kauppinen September 27, 2019
Associate Professor, Department of Pharmacology & Therapeutics, University of Manitoba
Principal Investigator, Kleysen Institute for Advanced Medicine

*Microglial modulation rescues cognitive impairment caused by fetal exposure to gestational diabetes*
Dr. Mandana Modirrousta  October 25, 2019
Associate Professor, Department of Psychiatry and Pathology & Pathophysiology, University of Manitoba
Principal Investigator, Department of Neurodegenerative Disorders, St. Boniface Hospital Albrechtsen Research Centre

Depression in 2020, a multidimensional approach?
Oxolipidomic profiles in major depressive disorder

Dr. Alyson Fournier  November 13, 2019
Professor
Faculty of Medicine
McGill University

Small molecule stabilization of protein Interactions to promote axon regeneration

Dr. Jun-Feng Wang  November 29, 2019
Associate Professor, Department of Pharmacology & Therapeutics, University of Manitoba | Principal Investigator, Kleysen Institute for Advanced Medicine

Contribution of thioredoxin-interacting protein to chronic stress-induced cellular damage
BAW Activities

Calendar

WINNIPEG BRAIN BEE
Saturday, March 9
Bannatyne campus, University of Manitoba

VISITING SPEAKER

Dr. Steven Conor March 11, 2019
Assistant Professor, Department of Biology
York University

Taming the wild synapse: MDGAs as negative regulators of synapse development
Outreach

BAW – Winnipeg Brain Bee

The 5th Annual Winnipeg Brain Bee was organized by Dr. Sari Hannila and had almost 30 high school participants this year.

Activities included:

• Neuroanatomy demonstration using preserved and fresh brain samples with Dr. Sari Hannila, Dr. Sabine Klonisch-Hombach and students from Let’s Talk Science – University of Manitoba
• MRI lecture from Dr. Melanie Martin
• Pizza lunch

The winners of the 2019 Brain Bee were:

1st prize Elayna Paddock Thiessen (Vincent Massey High School)
2nd prize Sarah Beel (UW Collegiate)
3rd prize Catherine Lin (Vincent Massey High School)
Financial Report

April – December 2019

Opening balance $7759.95

Total revenue $7514.26
Memberships
Registrations

Expenses $8810.96
Administration
Meeting
Outreach
Visiting Speaker