



HEALTHY BRAINS
FOR **HEALTHY LIVES**

THURSDAY, 2 MAY 2019

HBHL ANNUAL SYMPOSIUM

Jeanne Timmins Amphitheatre
The Neuro
3801 Rue Université
Montréal

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Welcome to the 2nd Annual HBHL Symposium!

It is with great pleasure that we welcome you to the second annual Healthy Brains for Healthy Lives (HBHL) Symposium at McGill University. The 2019 Symposium is a unique opportunity to update the research community on the progress of the HBHL initiative; the landmark CFREF grant awarded in 2016.

The HBHL research agenda is broad and ambitious, in keeping with the scale of the challenges we are confronting as scientists and citizens. Brain and mental health disorders are taking a devastating toll on populations, globally. At the same time, big data, technological innovation and the move toward open science are providing a more integrated understanding of the brain and introducing new areas of investigation.

HBHL is supporting an array of innovative research projects that hold the most promise for elucidating the complexity of the brain in health and disease. Our initiative brings together many of Canada's top scientists whose expertise spans neurology, neuroinformatics, computer science, psychology, psychiatry and social science. We have also drawn into our ranks a new cadre of interdisciplinary researchers and trainees who have the skills and talent necessary for a bold new computational approach to brain research at McGill University.

We are delighted to have members of HBHL's International Advisory Council present, including Carol Worthman of Emory University and Richard Wade-Martins of Oxford University. We will also hear from David Glahn, whose distinguished career at Yale University and Boston Children's Hospital speaks to the interdisciplinary mission of HBHL.

Among the highlights of our day is a panel discussion on the challenge of bringing the benefits of neuroinformatics to clinical practice, which is essential for the success of our initiative. Joining our panel, *From Big Data to Big Knowledge*, are new faculty members Rose Bagot and Blake Richards and HBHL's Associate Scientific Director, Doina Precup.

We have also invited the leaders of our Discovery Funds for Interdisciplinary Research to showcase progress on these flagship projects. Complementing these larger team-based Discovery projects, individual researchers working on projects funded by HBHL's Innovative Ideas program will provide snapshots of their work in a fast and fun Flash Talks session.

Finally, we are thankful for the generous contributions of our sponsors and partners, and the volunteers who have given their time and energy to keep the day running smoothly (Arielle Rabinowitz, Barbara Barth, Bertha Vazquez-Rodriguez, Bill Qi, Chun Yao, Cynthia Kwan, Elizabeth Levitis, Hazal Ozlen, Jeanne Madranges, Katerina Kroupina, Parizad Varghaei, Roni Molad, Sethu Boopathy Jegathambal).

Enjoy the 2019 Symposium!

Alan C. Evans, Scientific Director
Kristina Ohrvall, Interim Managing Director and CEO

SYMPOSIUM AGENDA

8:00	Breakfast & Registration
8:30 Opening Remarks	Philippe Gros Deputy Vice-Principal (Research & Innovation), McGill University
8:40 HBHL Welcome	Alan Evans Scientific Director, Healthy Brains for Healthy Lives
8:50 Keynote Lecture	Carol Worthman Professor of Anthropology, Emory University "The Situated Brain: Advancing Population Neuroscience and Healthy Lives"
9:15 Discovery Fund	Bratislav Mistic Assistant Professor, Department of Neurology and Neurosurgery, McGill University "Integrative analytics for multi-modal multi-scale neuroscience"
9:35 Discovery Fund	Alain Dagher Associate Professor, Department of Psychology, McGill University "A platform for biocomputational models of neurodegenerative disease"
9:55	Coffee & Networking
10:25 Keynote Lecture	David Glahn Associate Chief of Research, Department of Psychiatry, Boston Children's Hospital "Imaging Genetics: Advances, Pitfalls & Assumptions"
10:50 Innovative Ideas Flash Talks! Principal Investigators will give 5-minute presentations of their research	<p>Nathan Spreng "In vivo cholinergic markers of Alzheimer's disease progression"</p> <p>Edith Hamel "Brain hemodynamic signals as a dynamic biomarker of dementia initiation, progression and treatment"</p> <p>Alia Alameri (on behalf of Tim Kennedy) "Developing vascularized brain organoids on-chip for high throughput screening"</p> <p>Denise Klein "What we can learn from speech patterns: A machine learning view into health and disease"</p> <p>Christopher Pack "Targeted plasticity for recovery from cortical visual impairment"</p> <p>Amir Shmuel "MRI guided hierarchical sectioning and stitching of brain blocks for alignment of digitized histology to corresponding MR images"</p> <p>Adam Oberman (on behalf of David Stephens) "High complexity statistical modeling via optimal transportation"</p> <p>Christine L. Tardif "In vivo marmoset imaging at 3 Tesla"</p>

	<p>Jean-François Trempe “Measuring protein turnover in organoid and animal models of Parkinson’s disease”</p> <p>Marie-Elyse Lafaille-Magnan (on behalf of Ashley Wazana) “When gender matters: Differential effects of prenatal adversity on the development of ADHD and related neurocognitive deficits”</p>
12:00	Lunch & Networking
13:10 HBHL-CQDM	<p>Alan Evans and Diane Gosselin President and CEO, CQDM Neuro-Partnership Announcement</p>
13:15 Discovery Fund	<p>Kieran O'Donnell Assistant Professor in Epigenetics and Epidemiology, Department of Psychiatry, McGill University</p>
13:35 Discovery Fund	<p>Julien Doyon Director, McConnell-Brain Imaging Centre, McGill University “Brain plasticity mediating improved memories through online and offline stimulation methods in healthy adults and patients with a chronic neurological condition”</p>
13:55 HBHL Update	<p>Kristina Óhrvall Interim Managing Director, Healthy Brains for Healthy Lives</p>
14:15	Coffee & Networking
14:45 Panel Discussion <i>From Big Data to Big Knowledge</i>	<p>Panelists will discuss how computational neuroscience will transform brain research and clinical practice.</p> <p>Rosemary Bagot, Department of Psychology, McGill University David Glahn, Department of Psychiatry, Boston Children's Hospital Doina Precup, School of Computer Science, McGill University Blake Richards, The Neuro, McGill University Richard Wade-Martins, Department of Physiology, Anatomy, and Genetics, University of Oxford Carol Worthman, Professor of Anthropology, Emory University</p> <p>Moderator: Alan Evans, Scientific Director, Healthy Brains for Healthy Lives</p>
16:15 Closing Remarks	<p>Doina Precup, Associate Scientific Director, Healthy Brains for Healthy Lives</p>
16:25	Networking Reception

SPECIAL GUESTS



David Glahn

Boston Children's Hospital

In November of 2018, David Glahn joined the faculty at Boston Children's Hospital where he serves as the Associate Chief for Research in the Department of Psychiatry. He also serves as the inaugural director of the Tommy Fuss Center for Neuropsychiatric Disease Research and the Director of the Neuropsychiatric Genetics Program (NPG). Dr. Glahn's research focuses on large-scale studies designed to (i) elucidate the biological antecedents of psychotic and affective disorders through the integration of clinical, cognitive, neuroimaging, peripheral blood markers and molecular genetic information, and to (ii) determine the impact of genetic and environmental variation on normative brain structure and function and its development. Given that psychiatric and cognitive/imaging antecedents of psychosis or affective dysregulation appear in childhood and adolescence, typically years before the formal onset of the illness, a major component of his research focuses on genetic and environmental aspects of individual differences across development.



Richard Wade-Martins

Department of Physiology, Anatomy, and Genetics, University of Oxford

Richard Wade-Martins' research is focused on better understanding the molecular mechanisms underlying neurodegenerative diseases, such as Parkinson's disease and Alzheimer's disease with a view to developing novel drugs and targets. His work combines the development of improved induced pluripotent stem cell (iPSC) derived neuronal culture models, studies on human post-mortem brain tissue, and the generation and analysis of novel transgenic and knockout rodent models of disease. Dr. Wade-Martins is Professor of Molecular Neuroscience at Oxford and leads the Oxford Parkinson's Disease Centre, a multi-disciplinary translational research initiative supported by the Monument Trust Discovery Award from Parkinson's UK. He heads the iPSC Dementia Stem Cell Network for the UK Dementia Platform (DPUK) and led the "Neurodegenerative and Neurodysfunctional Diseases" program in StemBANCC, a large EU IMI Program using stem cells for drug discovery.



Carol Worthman

Professor of Anthropology, Emory University

Carol M. Worthman is Samuel Candler Dobbs Chair in the Department of Anthropology at Emory University, a Member of the American Academy of Arts and Sciences, and Fellow of the American Association for the Advancement of Science. With training in anthropology, human development, and neuroscience at Harvard and MIT, she forged an integrated ecobiocultural model of human development that guides global transdisciplinary research investigating the bases of differential mental and physical well-being. Her lab pioneered the use of biomarkers in population research and advances inclusive capacity-building in all locales where it works, including projects in thirteen countries, as well as in rural, urban, and semi-urban U.S. As a founding collaborator in the population-based Great Smoky Mountains Study, she implemented mixed-methods approaches to understanding disparities in developmental and mental health outcomes. The global policy impact of her work extends from breastfeeding and reproductive health to reintegration of ex-child soldiers and promoting the mental health of adolescents.

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