

LEARNING OBJECTIVES

At the end of the conference, participants will:

- Become familiar with the latest advances in the basic science of brain plasticity and its application to clinical practice in neurorehabilitation.
- Learn how brain plasticity processing is altered in healthy aging and in neurological and neuropsychiatric conditions.
- Understand current evidence and the techniques used in neurorehabilitation for assessment and treatment of the cognitive changes secondary to a wide range of disorders.

FORMAT

Pre-conference workshops:

The clinical and scientific workshops will combine interactive lectures and hands-on practice to help participants learn and gain experience with the different methodologies and techniques.

Conference:

The Conference will consist of three days of formal presentations by leading researchers in the fields of cognitive and affective neuroscience, brain plasticity, neurorehabilitation, neuroimaging, and affective clinical research.

Questions:

A 5-minute Q&A period will take place after each presentation. In addition, questions will be taken during the formal Q&A period ending each session.

Poster Session:

Posters will be available for viewing during the refreshment and lunch breaks. There will be a formal poster session on March 4 and 5.

Lunch Breaks: Please note that registrants are expected to make their own arrangements.

WHO SHOULD ATTEND

Researchers, clinicians, health professionals, fellows, residents and students in the areas of cognitive and affective neuroscience, neuropsychology, geriatrics and psychology who wish to learn current thinking and recent advances in brain rehabilitation.

Baycrest

Rotman Research Institute

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To view a list of pre-conference workshops, speakers and program, visit research.baycrest.org/conference



Baycrest is an academic health sciences centre affiliated with the University of Toronto

The Conference Planning Committee reserves the right to make necessary changes to this program. Every effort will be made to keep presentations and speakers as represented, however, unforeseen circumstances may result in the substitution or cancellation of a presentation topic or speaker.

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PRESENTS
**23rd ANNUAL
NEUROSCIENCE CONFERENCE**

BRAIN PLASTICITY & NEUROREHABILITATION

March 4 – 6, 2013

The Westin Harbour Castle,
1 Harbour St., Toronto, Canada



OUR CONFERENCE WILL BRING TOGETHER INTERNATIONALLY RENOWNED NEUROSCIENTISTS AND CLINICIANS TO PROVIDE BROAD COVERAGE OF THE SCIENCE OF NEUROREHABILITATION, RANGING FROM THE MOLECULAR AND CELLULAR CHANGES IN NEUROLOGICAL DISORDER TO BEHAVIOURAL AND COMPENSATORY TECHNIQUES FOR COPING WITH BRAIN DAMAGE.

THE CONFERENCE WILL ADDRESS CONDITIONS SUCH AS STROKE, DEMENTIA, AND TRAUMATIC BRAIN INJURY, DISORDERS THAT TAKE A DEVASTATING TOLL ON PERSONAL INDEPENDENCE AND QUALITY OF LIFE. SCIENTIFIC PRESENTATIONS WILL HIGHLIGHT RESEARCH CONDUCTED IN CANADA AND AROUND THE WORLD AND POSTER SESSIONS WILL PROVIDE AN OPPORTUNITY FOR GRADUATE STUDENTS AND POST-DOCTORAL FELLOWS TO PRESENT THEIR WORK AND INTERACT WITH LEADERS IN THE FIELD.

To register on-line please visit:
research.baycrest.org/conference

To register by mail, please use the enclosed registration form.

For additional information, you can contact
Paula Ferreira at pferreira@baycrest.org
 or call **416-785-2500 ext. 2363**

VENUES:

Conference: The Westin Harbour Castle,
 1 Harbour St., Toronto, ON. Canada.

Pre-conference Workshops:
 Baycrest, 3560 Bathurst Street
 Toronto, ON. Canada.

Please see conference website for information on booking code and accommodations, as well as transportation for pre-conference workshops.

PRE-CONFERENCE WORKSHOPS

SUNDAY, MARCH 3
9:00am-5:00pm

**Workshop A:
 The Memory & Aging Program**
Led by Dr. Angela Troyer & Dr. Susan Vandermorris

**Workshop B:
 Smarter Aging Program (SAP)**
Led by Dr. Sylvain Moreno, Dr. Aline Moussard & Barbara K. Byczko

**Workshop C:
 Learning the Ropes for MCI**
Led by Dr. Kelly Murphy, Dr. Gillian Rowe & Renee Climans

**Workshop D:
 Conducting Neurocognitive Intervention Research: Lessons from the field**
Led by Rotman Research Institute scientists.

MONDAY, MARCH 4

8AM - 8:30	Registration Opens & Breakfast (8-9)
9AM - 9:30	Welcoming Remarks (9-9:15) <i>Dr. Anthony R. McIntosh, Rotman Research Institute</i>
9:30 - 10:30	Keynote: Harnessing the power of neuroplasticity for intervention (9:15-10) <i>Dr. Bryan Kolb, University of Lethbridge, Canada</i>
10AM - 10:30	Session 1: Physiological Interventions: Neurofeedback, Pharmacology and Neuromodulation (10-10:30) <i>Dr. David Linden, Cardiff University, UK</i>
10:30 - 11AM	Refreshment Break (10:30-11)
11AM - 11:30	Session 1: Physiological Interventions: Neurofeedback, Pharmacology and Neuromodulation <i>Dr. Dale Corbett, University of Ottawa, Canada (11-11:30)</i> <i>Dr. Clement Hamani, University of Toronto, Canada (11:30-12)</i>
12PM - 12:30	Session 1: Moderated Discussion (12-12:30) <i>Dr. Sandra Black, Rotman Research Institute; Sunnybrook Research Institute</i>
12:30 - 2PM	Lunch Break (not provided) (12:30-2)
2PM - 2:30	Session 2: Behavioural Interventions: Computerized, Mindfulness, Music, Occupation <i>Dr. Adrian Owen, University of Western Ontario, Canada (2-2:30)</i> <i>Dr. Adam Anderson, University of Toronto, Canada (2:30-3)</i>
3PM - 3:30	Refreshment Break (3-3:30)
3:30 - 4PM	Session 2: Behavioural Interventions: Computerized, Mindfulness, Music, Occupation <i>Dr. Sylvain Moreno, Rotman Research Institute (3:30-4)</i> <i>Dr. Elizabeth Skidmore, University of Pittsburgh, USA (4-4:30)</i>
4:30 - 5PM	Session 2: Moderated Discussion (4:30-5) <i>Dr. Jennifer Ryan, Rotman Research Institute</i>
5:30 - 6PM	Poster Session, Welcome Reception (5-6:30)
6:30 - 7PM	

TUESDAY, MARCH 5

8AM - 8:30	Registration Opens & Breakfast (8-8:45)
9AM - 9:30	Keynote: Cortical Plasticity Within and Across Lifetimes: A Comparative Approach (8:45-9:30) <i>Dr. Leah Krubitzer, University of California, Davis, USA</i>
9:30 - 10:30	Session 3: Change Assessment: Microstructure and System Neuroimaging, Behavioural and Population Neuroscience <i>Dr. Jean Chen, Rotman Research Institute (9:30-10)</i> <i>Dr. Richard Gershon; Northwestern University, USA (10-10:30)</i>
10:30 - 11AM	Refreshment Break (10:30-11)
11AM - 11:30	Session 3: Change Assessment: Microstructure and System Neuroimaging, Behavioural and Population Neuroscience <i>Dr. Tomas Paus, Rotman Research Institute (11-11:30)</i> <i>Dr. Mark D'Esposito, University of California, Berkeley, USA (11:30-12)</i>
12PM - 12:30	Session 3: Moderated Discussion (12-12:30) <i>Dr. Brian Levine, Rotman Research Institute</i>
12:30 - 2PM	Lunch Break (not provided) (12:30-2)
2PM - 2:30	Session 4: Mechanisms of Change: System-level Training, Focal Stimulation, Systemic Neurodegeneration, Top-down Cross-system Changes <i>Dr. Nina Kraus, Northwestern University, USA (2-2:30)</i> <i>Dr. Alvaro Pascual-Leone, Harvard Medical School, USA (2:30-3)</i>
3PM - 3:30	Refreshment Break (3-3:30)
3:30 - 4PM	Session 4: Mechanisms of Change: System-level Training, Focal Stimulation, Systemic Neurodegeneration, Top-down Cross-system Changes <i>Dr. Robin Green, University of Toronto, Canada (3:30-4)</i> <i>Dr. Adam Gazzaley, University of California, San Francisco, USA (4-4:30)</i>
4:30 - 5PM	Session 4: Moderated Discussion (4:30-5) <i>Drs. Morris Moscovitch and Gordon Winocur, Rotman Research Institute</i>
5:30 - 6PM	Poster Session (5-6)
6:30 - 7PM	Public Lecture (6-7) <i>Dr. Fergus Craik, Rotman Research Institute</i> <i>Dr. Ellen Bialystock, York University</i>

WEDNESDAY, MARCH 6

8AM - 8:30	
8:30 - 9AM	Registration Opens & Breakfast (8:30-9:15)
9:30 - 10:30	Keynote: Principles of Cognitive Neurorehabilitation (9:15-10) <i>Dr. Barbara Wilson, Cambridge University, UK</i>
10AM - 10:30	Session 5: Neuroplasticity and Neurorehabilitation of Specific Cognitive Domains: Memory, Language and Executive Functions <i>Dr. Asaf Gilboa, Rotman Research Institute, Canada (11-11:30)</i> <i>Dr. Eva Svoboda, Baycrest, Canada (11:30-12)</i>
11AM - 11:30	Refreshment Break (11-11:30)
12PM - 12:30	Session 5: Neuroplasticity and Neurorehabilitation of Specific Cognitive Domains: Memory, Language and Executive Functions <i>Dr. Friedmann Pulvermuller, Freie Universität Berlin, Germany (11:30-12)</i> <i>Dr. Elizabeth Rochon, University of Toronto, Canada (12-12:30)</i>
12:30 - 2PM	Lunch Break (not provided) (12:30-2)
2PM - 2:30	Session 5: Neuroplasticity and Neurorehabilitation of Specific Cognitive Domains: Memory, Language and Executive Functions <i>Dr. Don Stuss, Rotman Research Institute, Canada (2-2:30)</i> <i>Dr. Torkel Klingberg, Karolinska Institute, Sweden (2:30-3)</i>
3PM - 3:30	Session 5: Moderated Discussion (3-3:45) <i>Dr. Jed Meltzer, Rotman Research Institute</i>
4PM - 4:30	Closing remarks <i>Dr. Deirdre Dawson, Rotman Research Institute</i>

CALL FOR POSTERS
 (Submissions due by December 15, 2012)
 Posters on research focused on **brain plasticity and neurorehabilitation** are invited.
 Submission form is available on conference website and must be in exact accordance with instructions.
posters@research.baycrest.org