

Toronto 7T Opening Scientific Symposium – Tentative Agenda (speakers confirmed, order and sessions may change)

Thursday October 22, 2026 (Day 1)

8:00-9:00 AM	Registration, Continental Breakfast & Networking
9:00–9:30 AM	Opening Remarks • Andy Smith, MD, MSc – President & CEO, Sunnybrook Health Science Centre • Micheal Kolios, PhD – Vice President, Research and Innovation, Sunnybrook Research Institute • Jennifer Gommerman, PhD – Co-PI of the Toronto Neuro-Immunology/Imaging Consortium, Professor, University of Toronto
9:30–10:00 AM	Keynote — Kâmil Uğurbil, PhD — Centre for Magnetic Resonance Research, University of Minnesota <i>Pushing magnetic fields, resolution, and precision in pursuit of understanding Human Brain Function</i>
10:00–11:00 AM	Keynote — Erik Middlebrooks, MD – Mayo Clinic <i>From Boutique to Bedside: Transforming 7T MRI Into a Clinical Scanner</i>
11:00–11:30 AM	Coffee Break
11:30AM–12:30 PM	Keynote – Nir Lipsman, MD, PhD –Sunnybrook Health Science Centre, University of Toronto <i>From research to clinical care: the value of 7T for Sunnybrook and Toronto</i>
12:30–1:30 PM	<i>End of Public Portion</i> Tour of the 7T Facility (600 m/10-minute walk) Networking Lunch for In-Person Attendees Session I – Added value of 7T for clinical research 1 • Noam Harel, MD, PhD – Centre for Magnetic Resonance Research (CMRR), University of Minnesota <i>A Clearer Vision for DBS: The 7T MRI Advantage</i>
1:30–3:00 PM	• Siegfried Trattnig, PhD – Medical University of Vienna <i>Clinical applications of 7T in neurology and multiple sclerosis</i> • Seth Smith, PhD – Center for Human Imaging, Vanderbilt University Institute of Imaging Science <i>Advanced spinal cord and brain biomarkers 7T in Multiple Sclerosis</i>
3:00–3:30 PM	Coffee Break

3:30–5:00 PM

Session II – Advanced image acquisition at 7T

- Julien Cohen-Adad, PhD – École Polytechnique de Montréal
Advancing Spinal Cord MRI at 7T with Hybrid AC/DC Coils and Real-Time Dynamic Shimming
- Jonathan Polimeni, PhD – Stanford School of Medicine, Stanford University
Advanced functional MRI at High Resolution 7T
- Tony Stoecker, PhD – German Center for Neurodegenerative Diseases (DZNE)
Fast and robust high-resolution brain imaging at 7T

Friday October 23, 2026 (Day 2)

8:30-9:00 AM

Continental Breakfast & Networking

9:00–10:30 AM

Keynote – 7T Experience Across Canada

- Ravi Menon, PhD – Centre for Functional and Metabolic Mapping, Western University
Three decades of human ultra-high field MRI in Canada: The London Experience
- Christine Tardiff, PhD – The Neuro (McConnell Brain Imaging Centre), McGill University
Cognitive Neuroscience and MR Methods development: The Montreal Experience
- Simon Graham, PhD – Sunnybrook Research Institute, University of Toronto
The road to 7T in the GTA: The Toronto Experience

10:30–11:00 AM

Coffee Break

11:00AM–12:30 PM

Session III – Clinical applications across disorders and diseases in Toronto

- Rosanna Olsen, PhD – Baycrest Academy for Research and Education, University of Toronto
Using high-resolution time of flight MR-angiography to image the hippocampal blood supply
- Jiwon Oh, MD, PhD – Unity Health Toronto, University of Toronto
Multiple Sclerosis monitoring at 3T and potential of 7T
- N.N. – Sunnybrook Health Science Centre, University of Toronto
Cancer research at 7T for the Odette Cancer Centre
- N.N. – Sunnybrook Health Science Centre, University of Toronto
Blood brain barrier permeability in focused ultrasound patients at 3T and 7T

12:30–1:30 PM

Networking Lunch

1:30–3:00 PM

Session IV – Added value of 7T for clinical research 2

- Emrah Duezel, PhD – German Center for Neurodegenerative Diseases (DZNE)
The value of 7T for Neurodegeneration Research

- Maxime Guye, MD, PhD – Centre for Magnetic Resonance in Biology and Medicine, Aix-Marseille University
Beyond the Surface: 7T MRI and the Hidden Dimensions of Epilepsy
- Marta Bianciardi, PhD – Harvard Medical School, Massachusetts General Hospital (MGH)
From nuclei to networks: A 7 Tesla journey into the human brainstem

3:00–3:30 PM

3:30–5:00 PM

Coffee Break

Session V – Emerging sequences and applications

- Mark Ladd, PhD – German Cancer Research Center (DKFZ)
Toward whole-body 7T imaging with conventional workflow
- Mark Chiew, PhD – Sunnybrook Research Institute, University of Toronto
FAST imaging and image reconstruction at 7T
- Jamie Near, PhD – Sunnybrook Research Institute, University of Toronto
Magnetic resonance spectroscopy at 7T
- Kâmil Uludağ, PhD – Sunnybrook Research Institute, University of Toronto
Opportunities and Challenges of Perfusion Imaging at 7T