





Research Institute of McGill University Health Centre Mc Gill University, Montreal (Canada)

August, 20-21, 2026

PRELIMINARY PROGRAM

(EST TIME)

Thursday, August 20, 2026

08:00 – 08:30 **Registration**

08:30 - 08:45 Welcome Remarks

Rhian M Touyz

McGill University Health Centre Montréal, Québec, Canada

Federica Wolf

Università Cattolica del Sacro Cuore, Rome, Italy

08:45 - 09:10 KEYNOTE LECTURE - TBD

SESSION I

Magnesium Homeostasis from Cells to Organs

09:10 - 09:35 Adriana Girardi

Laboratory of Molecular Cardiology and Genetics, **InCor** (Heart Institute), Hospital das Clínicas, Faculty of Medicine, University of São Paulo (FMUSP), São Paulo, **Brazil**

09:35 - 10:00 Matthias Wolf

Department of Pediatrics, Pediatric Nephrology, University of Michigan, Ann Arbor, MI,

USA

10:00 - 10:25 New Insights into the Physiological Roles of TRPM6 and TRPM7

Vladimir Chubanov

Department of Pharmacology and Toxicology, Walther-Straub Institute, LMU Munich,

Germany







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10:25 - 11:00	Coffee Break around Poster Session
11:00 - 11:25	Kalle Gehring McGill University, Montreal, Canada
11:25 - 11:50	Michel L Tremblay Department of Biochemistry and Goodman Cancer Institute. McGill University, Montreal, Canada
11:50 - 12:15	Loren Runnels Department of Pharmacology Rutgers, Robert Wood Johnson Medical School Piscataway, NJ, USA
12:15 - 12:40	Alexey Ryazanov Department of Pharmacology Rutgers, Robert Wood Johnson Medical School Piscataway, NJ, USA
12:40 - 13:05	Alexander Sobolevsky Columbia University, New York, USA
13:05 - 14:00	Lunch around Poster Session
	SESSION II Magnesium in the Prevention & Treatment of Diseases
14:00 - 14:25	TRPM channels in pancreatic islets
	Thomas Gudermann Walther Straub Institute of Pharmacology and Toxicology, Faculty of Medicine, LMU Munich, Germany
14:25 - 14:50	María Luz Martínez-Chantar Laboratory of Head, Liver Disease, Spanish Carlos III Health Institute, Derio, Spain







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14:50 - 15:15	Chintan V. Shah Division of Nephrology, Hypertension & Renal Transplantation University of Florida – College of Medicine, FL, USA
15:15 - 15:40	Eduardo A Groisman Yale School of Medicine, Department of Microbial Pathogenesis, New Haven, CT, USA
15:40 - 16:05	Modeling Calcium and Magnesium balance: Regulation by hormones Anita T Layton Department of Applied Mathematics, University of Waterloo, Waterloo, ON, Canada
16:05 - 16:30	Coffee Break around Poster Session
16:30 - 17:00	Oral Presentations
Friday, Au	gust 21, 2026
	SESSION III Magnesium in Cardiovascular and Renal Disorders: New Insights and Clinical Implications
08:30 - 08:55	Jim McCormick Division of Nephrology & Hypertension at Oregon Health & Science University (OHSU), Portland, OR, USA
08:55 - 09:20	The Mechanism whereby Mg treats Atrial Fibrillation and Heart Failure with Preserved Ejection Fraction Samuel C Dudley Lillelei Heart Institute, Minneapolis, MN, USA
09:20 - 09:45	Francisco Rios

Research Institute of Mc Gill University Health Centre Montreal, Canada

Department of Molecular Life Sciences, Radboud Institute, Nijmegen, the Netherlands

Jeroen de Baaij

09:45 - 10:10







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10:10 - 10:35	Lixia Yue UConn Health (University of Connecticut Health Center), Department of Cell Biology, Pat and Jim Calhoun Cardiology Center, Farmington, CT, USA
10:35 - 11:00	Coffee Break around Poster Session
11:00 - 11:25	Renal Magnesium Conservation During Lactation Evan Ray Renal-Electrolyte Div., University of Pittsburgh, PA, USA
11:25 - 11:50	Marta Müller Department of Nephrology, University Hospital Düsseldorf (Universitätsklinikum Düsseldorf - UKD), Düsseldorf, Germany
11:50 - 12:20	Oral Presentations
12:20 - 13:30	Lunch around Poster Session SESSION IV Unveiling the Immunomodulatory Power of Magnesium: From Cellular Mechanisms to Clinical Impact
13:30 - 13:55	Bebhinn Treanor Department of Biological Sciences, University of Toronto Scarborough, ON, Canada
13:55 - 14:20	Hypomagnesemia in lymphoma patients receiving CAR T Therapy correlates with Immune dysfunction and decreased survival Thomas Witzig Mayo Clinic (Department of Hematology, Hematology-Oncology), Rochester, MN, USA
14:20 - 14:45	TBD
14:45 - 15:15	Oral Presentations







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SESSION V Magnesium across the lifespan: from conception to old age

15:15 - 15:40 **Rafael Fissore** Veterinary Department, University of Massachusset, NJ, USA 15:40 - 16:05 From Petri Dish to Patient: Unraveling the Role of Magnesium in the Biology of **Aging** Jeanette A Maier Dept Biomedical and Clinical Sciences, University of Milan, Italy 16:05 - 16:30 **TBD Oral Presentations** 16:30 - 17:00 Coffee Break around Poster Session 17:00 - 17:30 17:30 - 18:30 **SESSION VI** Challenges in Magnesium Research: still more questions than answers - where we are & where we are going A Round Table discussion on issues that are still debated or unexplored and suggestions for the future of Mg research **Thomas Gudermann**

Walther Straub Institute of Pharmacology and Toxicology, Faculty of Medicine, LMU Munich, **Germany**

Stefano lotti

Department of Pharmacy and Biotechnology, University of Bologna, **Italy**

Jeanette A Maier

Dept Biomedical and Clinical Sciences, University of Milan, Italy

André Mazur

Clermont-Ferrand, **France**

Rhian M Touyz

McGill University Health Centre Montréal, Québec, Canada

Federica Wolf

Università Cattolica del Sacro Cuore, Rome, Italy

18:30 - 19:00 Awards Nomination and Closing Ceremony