



Banting & Best Diabetes Centre
UNIVERSITY OF TORONTO

33RD ANNUAL SCIENTIFIC DAY

Friday, May 10, 2024

Old Mill

21 Old Mill Road, Toronto

PROGRAM

Banting & Best Diabetes Centre
33rd Annual Scientific Day
Friday, May 10, 2024
Old Mill, 21 Old Mill Road, Toronto

- Breakfast, poster presentations, and lunch will be held in Brule A, B and C on the 1st floor (lower level).
- All lectures will be held in the Guildhall on the 3rd floor (upper level).

8:00 - 8:40 am **Continental breakfast and poster set-up** Brule A, B and C, 1st floor

SESSION 1 (Chair: Kyle Medak)

Guildhall, 3rd floor

8:40 - 8:45 **Welcome and Opening Remarks: Tony Lam**

8:45 - 9:15 Studying Diabetes Using an Ex Vivo Organ Perfusion Platform
Ian Rogers

9:15 - 9:30 SGLT2 Inhibition and the Kidney in Humans
Ayodele Odutayo (Supervisor: David Cherney)

9:30 - 10:00 Diabetes and Dementia
Walter Swardfager

10:00 - 11:15 **Refreshments, poster presentations, and Patricia L. Brubaker Trainee Awards Competition poster judging by Ashley Castellanos-Jankiewicz and a BBDC member (TBA). Moderator: Tony Lam** Brule A, B and C, 1st floor

SESSION 2 (Chair: Sonia Taib)

Guildhall, 3rd floor

11:15 - 11:30 Glucagon-like Peptide-2 Stimulates Chylomicron Secretion Via Enteric Nervous System Enhancement of Lacteal Contractility
Majid Mufaqam Syed Abdul (Supervisor: Gary Lewis)

11:30 - 11:45 Deciphering the Hematopoietic Pancreatic Niche During Human Fetal Development
Adriana Migliorini (Supervisor: Cristina Nostro)

11:45 - 12:15 pm Adipocyte-Beta Cell Crosstalk in the Development of Diabetes
Kacey Prentice

12:15 - 12:30 BBDC Director's Report
Minna Woo

12:30 - 1:30 **Lunch** Brule A, B and C, 1st floor

SESSION 3 (Chair: Tony Lam)

Guildhall, 3rd floor

1:30 - 2:30 **CHARLES HOLLENBERG MEMORIAL LECTURESHIP**
 What Bariatric Surgery Teaches Us About the Role of the GI Tract in Regulating Energy Balance and Glucose Metabolism
Randy J. Seeley

2:30 - 2:40 Patricia L. Brubaker Trainee Awards presentations 2023/24
Ashley Castellanos-Jankiewicz, BBDC member (TBA), and Patricia Brubaker (with introduction by **Daniel Drucker**)

2:40 **Adjournment**

GUEST SPEAKER

Randy J. Seeley, PhD
H.K. Ransom Professor of Surgery, Internal Medicine
and Nutritional Sciences
Director, Michigan Nutrition Obesity Research Center
(MNORC), University of Michigan

POSTER JUDGES

Ashley Castellanos-Jankiewicz, PhD
Senior Editor, Nature Metabolism
BBDC Member (TBA)

LOCAL SPEAKERS (*University of Toronto)

Adriana Migliorini, PhD
Senior Postdoctoral Fellow, University Health Network,
McEwen Stem Cell Institute
Supervisor: Dr. Cristina Nostro

Ayodele Odutayo, DPhil, MD
Postdoctoral Fellow, University Health Network
Supervisor: Dr. David Cherney

Kacey Prentice, PhD
Assistant Professor, Department of Physiology*

Ian M. Rogers, PhD
Professor, Department of Obstetrics and Gynecology
and Department of Physiology*
Scientist, Lunenfeld-Tanenbaum Research Institute,
Sinai Health System

Majid Mufaqam Syed Abdul, PhD
Postdoctoral Fellow, University Health Network
Supervisor: Dr. Gary Lewis

Walter Swardfager, PhD
Canada Research Chair in Clinical Pharmacology of
Cognitive Neurovascular Disorders
Associate Professor & Associate Chair Clinical Sciences
Department of Pharmacology & Toxicology*
Scientist, Hurvitz Brain Sciences Program, Sunnybrook
Research Institute

PROGRAM PLANNING: BBDC RESEARCH EXCELLENCE COMMITTEE

Tony K. T. Lam, PhD
Associate Director of Research and Committee Chair
Professor, Departments of Physiology and Medicine*
Canada Research Chair in Obesity

Mahavir Agarwal, MBBS, MD, PhD
Associate Professor, Department of Psychiatry*
Psychiatrist and Medical Head of Clinical Research,
Schizophrenia Division, CAMH
Scientist, Campbell Family Mental Health Research
Institute, CAMH

Jacqueline Beaudry, PhD
Assistant Professor, Department of Nutritional
Sciences*

Eno Hysi, PhD
Assistant Professor, Department of Medical Biophysics*
Staff Scientist Keenan Research Centre, St. Michael's
Hospital
Adjunct Professor, Department of Physics, Faculty of
Science, Toronto Metropolitan University

Sara Nunes Vasconcelos, PhD
Associate Professor, Institute of Biomedical Engineering,
Department of Laboratory of Medicine & Pathobiology*

(continued)

John Kiston Mclvor Endowed Chair in Diabetes Research
Senior Scientist, Toronto General Hospital Research
Institute

Kacey Prentice, PhD
Assistant Professor, Department Physiology*

Ian M. Rogers, PhD
Professor, Department of Obstetrics and Gynecology and
Department of Physiology*
Scientist, Lunenfeld-Tanenbaum Research Institute,
Sinai Health System

Hoon-Ki Sung, MD, PhD
Associate Professor, Laboratory Medicine and
Pathobiology*
Senior Scientist, The Hospital For Sick Children Research
Institute

Walter Swardfager, PhD
Assistant Professor, Department of Pharmacology &
Toxicology*

Xiao Yu (Shirley) Wu, PhD
Professor, Leslie Dan Faculty of Pharmacy*

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MAJOR CONTRIBUTOR

University Health Network