



NOVEMBER 1, 2017

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MESSAGE FROM THE CHAIR



The breadth and diversity of research in Toronto never ceases to amaze me.

Last week I attended a meeting on campus about AI to learn that machines will probably be smarter than us in 50 years. The focus is now on AGI - artificial generalized intelligence, which will require far more realistic modelling of the human brain. Justin Trudeau was there and emphasized the importance of STEM subjects at Tertiary level.

Next week, I am chairing a session at the CARDIAC PHYSIOME Workshop, organized by Physiology alumnus, Professor James Bassingthwaighte. And, of course, there is BRAIN DAY, organized by our Neuroscience platform. Hope to see many of you at these exciting events. Let's all make the most of the TORONTO ADVANTAGE.

Best wishes.

Graham L. Collingridge, FRS, FMedSci, FRSB, FBPhS
Ernest B. and Leonard B. Smith Chair
Department of Physiology

MESSAGE FROM THE VICE-CHAIR, RESEARCH



Dear Faculty,

Please be sure to mark the **December 8th Physiology Department Retreat** on your calendars. The focus of the day will be on strengthening our research ties within the department. Come hear about the exciting scientific advances in the department and join the discussion on how to improve the research environment for our faculty.

RSVP Deadline Extended to Nov 6:

<https://www.surveymonkey.com/r/PSLRetreat2017>

Best regards,

Scott Heximer, PhD.

HONOURS & AWARDS

Congratulations to **Dr. Anthony Gramolini** on being elected a Fellow of the American Heart Association (FAHA) conferred by the Council on Basic Cardiovascular Sciences (BCVS). Fellowship recognizes and awards premium professional members for excellence, innovative and sustained contributions in the areas of scholarship, practice and/or education, and volunteer service within the AHA/ASA.

Congratulations to **Dr. Graham Collingridge** who received the Ideas Award at the Machine Learning and the Market for Intelligence conference hosted by the Rotman's Creative Destruction Lab on October 26th. Also making an appearance at the conference was Prime Minister Justin Trudeau who outlined his government's vision to capitalize on Canada's early lead in artificial intelligence, or AI



https://www.utoronto.ca/news/trudeau-gets-his-geek-u-t-talking-ai-and-canada-s-future?utm_source=UofTHome&utm_medium=WebsiteBanner&utm_content=TrudeauDLAI

PHYSIOLOGY SEMINAR SERIES

~ Eligible for PSL1000H/PSL2000H Course Seminar Attendance ~

Oksana Shynlova, PhD

Assistant Professor

Department of Obstetrics & Gynecology

University of Toronto Research Scientist

Lunenfeld-Tanenbaum Research Institute at Mount Sinai Hospital

"Female Pelvic Floor disorders: matrix, cells, genes and their interaction"

Thursday, November 2, 2017

4-5 pm

Location: Medical Sciences Building, Room 2170

Host: Reproduction and Development Platform



The poster features a green header with the text "Department of Physiology Seminar Series". Below the header are four vertical panels of scientific illustrations: a human torso showing the heart and lungs, a human torso showing the digestive system, a human head in profile showing the brain and neural pathways, and a human fetus in a womb with a DNA double helix. To the right of these panels is the speaker's name and affiliation, followed by the seminar title, date, time, and location. At the bottom right is the University of Toronto logo and name. At the bottom center is a note about course eligibility.

Department of Physiology Seminar Series

Oksana Shynlova, PhD
Assistant Professor
Department of Obstetrics & Gynecology
University of Toronto Research Scientist
Lunenfeld-Tanenbaum Research Institute at Mount Sinai Hospital

Female Pelvic Floor disorders: matrix, cells, genes and their interaction

Thursday, November 2, 2017
4:00 p.m.
Medical Sciences Building
1 King's College Circle
Room 2170

Physiology
UNIVERSITY OF TORONTO

Eligible for the 1000/2000 Seminars in Physiology Course

PHYSIOLOGY SEMINAR SERIES

~ Eligible for PSL1000H/PSL2000H Course Seminar Attendance ~

Patrick MacDonald, PhD

Associate Professor, Dept. of Pharmacology
Canada Research Chair in Islet Biology
Alberta Diabetes Institute


“Connecting metabolism to the exocytotic site”

Thursday November 16, 2017

4-5 pm

Medical Sciences Building, Room 2170

Host: EDRG Platform



Department of Physiology Seminar Series
www.physiology.utoronto.ca

Physiology
UNIVERSITY OF TORONTO

PSL THURSDAY SEMINAR SERIES

Title: Connecting metabolism to the exocytotic site

Patrick MacDonald, PhD
Professor
Department of Pharmacology
Alberta Diabetes Institute
University of Alberta

Thursday, November 16, 2017
4:00 p.m. - 5:00 p.m.
Medical Sciences Building, Room 2170
1 King's College Circle
University of Toronto

Hosted by: Endocrinology and Diabetes Research Group (EDRG)

Eligible for the 1000/2000 Seminars in Physiology Course

NEUROSCIENCE PLATFORM RESEARCH DAY – Nov 8

Department of Physiology - Neuroscience Platform

NEUROSCIENCE DAY 2017

Awards given for best oral & poster presentations

Wednesday, November 8, 2017

Oral Presentations - 10:00 a.m. to 12:00 p.m.
Medical Sciences Building, Room 2170

Poster Presentations
Stone Lobby 1:00 to 3:00 p.m.

Lunch Reception - 12:00 - 1:00 p.m.



 Physiology
UNIVERSITY OF TORONTO

CHARLES H. BEST LECTURE – Monday November 27th

~ Eligible for PSL1000H/PSL2000H Course Seminar Attendance ~

Endowed by Dr. John K. and Mrs. Mary E. Davidson

Charles H. Best Lectureship and Award



Professor Matthias H. Tschöp

Scientific Director of the Helmholtz Diabetes
Center and Chair of the
Division of Metabolic Diseases
Technische Universität München
Germany

**Title: Unimolecular Polyagonist Targeting
Gut-Brain Communication
Reverse Obesity and Diabetes**

Monday, November 27, 2017 @ 3:00 p.m.
Mount Sinai Hospital
Ben Sadowski Auditorium
600 University Avenue
18th floor

Please join us for a Reception immediately
after the lecture in the Auditorium Atrium
ALL WELCOME

Eligible for the 1000/2000 Seminars In Physiology Course

CHARLES H. BEST LECTURESHIP AND AWARD

NEW STATUS-ONLY APPOINTMENTS

A warm welcome to **our newest faculty members - Dr. Khosrow Adeli and Dr. Michael Gollob.**



Dr. Khosrow Adeli is currently the head and full professor of Clinical Biochemistry at the Hospital for Sick Children and the Department of Laboratory Medicine & Pathobiology at the University of Toronto. He is also Vice Chair of Quality in Laboratory Medicine and Pathobiology, and a Senior Scientist in the Program in Molecular Medicine, Research Institute, The Hospital for Sick Children. Dr. Adeli's main area of research is focused on understanding the pathophysiology of obesity, metabolic syndrome and type 2 diabetes. Specifically, his laboratory is investigating the neuroendocrine mechanisms regulating intestinal and hepatic lipoprotein overproduction in insulin resistant states and the role of the gut-brain-liver axis in lipid and lipoprotein metabolism. Dr. Adeli is also active in clinical chemistry research and has been involved in a number of projects on diagnostic test development projects. He is the principal investigator of the CALIPER (Canadian Laboratory Initiative on Pediatric Reference Interval Database) project aimed at the establishment of a laboratory reference interval database for biomarkers of pediatric disease.



Dr. Michael Gollob is the Peter Munk Research Chair in Cardiovascular Molecular Medicine at the Toronto General Hospital (TGH). Dr. Gollob's clinical practice is focused on genetic-based Sudden Death Syndromes and cardiomyopathies. His clinic provides expert clinical and genetic consultations.

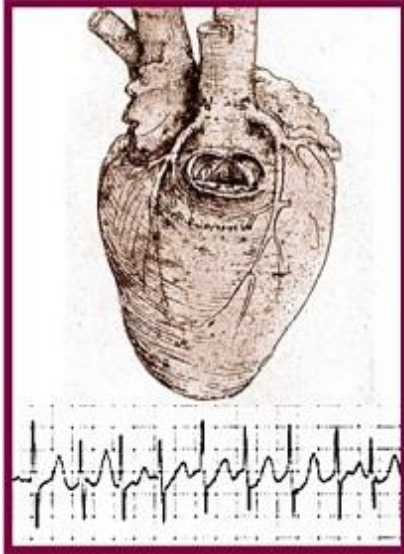
Dr. Gollob's research focuses on the genetic and physiological basis of sudden death syndromes, the common arrhythmia of atrial fibrillation, and cytoskeletal or metabolic based cardiomyopathy conditions. His research laboratory has identified genes causative for sudden death and atrial fibrillation, and he has published his research in high impact journals including the New England Journal of Medicine and Nature. Dr. Gollob is a recipient of the Mid-Career Scientist Award from the Heart and Stroke Foundation of Ontario and holds peer-reviewed research funding from the Canadian Institutes for Health Research (CIHR).

NEWS FROM GASP

A reminder for all trainees to join GASP at their social events. As you can see from the pics below, you will have lots of fun!

Stay tuned for November's event schedule!





Cardiac Physiome Society

6-9 Nov. 2017

University of Toronto
Faculty Club and MaRS
Building

2017 Cardiac Physiome Workshop

The Cardiac Physiome Society's annual meeting will be held at the University of Toronto from Nov. 6th to Nov 9th, 2017.

Main meeting: The central theme, building on the past emphasis on electrophysiology and mechanics, is on linking these to metabolism. The overt goal is to foster bridging "silos of knowledge" into conciliated structured knowledge linking metabolism, signaling, electrophysiology and mechanics, via mathematical models.

Please see <https://www.physiome.org/cardiac2017/> for all the details.

THE OPIOID CRISIS SYMPOSIUM: RECENT ADVANCES IN RESEARCH

Date: **November 7, 2017**

Time: **2-5pm**

Location: St. Michael's Hospital, **Allan Waters Family Auditorium at the Li Ka Shing Knowledge Institute** (second floor), 209, Victoria Street.

This symposium will present the latest epidemiology, clinical and biomedical research that aims to find solutions to the opioid crisis.

Full details available at www.gasplab.com/opioidseminar or contact Gaspard Montandon (MontandonG@smh.ca).

**We want to hear about the great things happening in
Physiology.**

Please share your accomplishments, awards...
Send news items to the Chair's Office
c/o e.katsoulakos@utoronto.ca