

Biochemistry Seminars

2014

Friday, 31 Jan 2014

Dr. Maud L. Menten Memorial Lecture Series

Prof. Pierre Thibault, Institute for Research in Immunology and Cancer, University of Montreal

"Unraveling specific versus promiscuous phosphorylation using time-resolved phosphoproteomics"

Host: Dr. Lars Konermann

Friday, 7 Feb 2014

Dr. Maud L. Menten Memorial Lecture Series

Dr. Senthil Muthuswamy, OCI and Dept. of Medical Biophysics, University of Toronto

"Cell polarity and initiation and progression of cancer"

Host: Dr. Shawn Li

Friday, 14 Feb 2014

Dr. Shawn Whitehead, Dept. of Anatomy and Cell Biology, Western University

"The Aging Brain, Using Imaging to Determine Vulnerability"

Host: Dr. Ken Yeung

Friday, 21 Feb 2014

Dr. Quintus Medley, Senior Principal Scientist, Immunoregulation Group, Immunoscience, Pfizer Research

"Approaches to target T cells for the treatment of autoimmune disease"

Host: Dr. Brian Shilton

Friday, 14 Mar 2014

Dr. Stephen Barr, Dept. of Microbiology and Immunology, Western University

"Long live HIV: a mechanistic look at an evolutionary arms race at the protein level"

Host: Dr. David Haniford

Friday, 28 Mar 2014

Dr. Maud L. Menten Memorial Lecture Series

Dr. Wenqing Xu, Dept. of Biological Structure, University of Washington, Seattle, WA

"Structural basis of Wnt signaling and PARylation-dependent ubiquitination"

Host: Dr. Hong Ling

Thursday, 3 Apr 2014

Dr. Jennifer Johnston, Founder and CSO, Annoah Discovery, San Francisco, CA

"Structural Mechanisms and Small Molecule Compounds Regulating Parkin Enzyme Activation"

Host: Dr. Gary Shaw

Friday, 25 Apr 2014

[Dr. Maud L. Menten Memorial Lecture Series](#)

Dr. Charlie Boone, University of Toronto, Donnelly Centre

"Genetic Landscape of a Cell"

Host: Dr. David Litchfield

Friday, 2 May 2014

Dr. Jean Boutin, Unité de Recherches et Découvertes en Neurosciences, Institut de Recherches
SERVIER

"Melatonin, Quinone Reductase 2, and Neurodegenerative Disease"

Host: Dr. Brian Shilton

Friday, 9 May 2014

[Dr. Maud L. Menten Memorial Lecture Series](#)

Dr. John Moran, Dept. of Human Genetics, University of Michigan

"Studies of a Human Transposable Element"

Host: Dr. Fred Dick

Friday, 16 May 2014

Dr. Lars Rehm, Dept. of Chemical and Biochemical Engineering, Western University

"Fuel-Related Biochemical Engineering Applications"

Host: Dr. Ilka Heinemann

Friday, 30 May 2014

[Dr. Maud L. Menten Memorial Lecture Series](#)

Dr. Benjamin Cravatt, Department of Chemical Physiology, The Scripps Research Institute, La Jolla, CA

"Activity-based proteomics – applications for enzyme and inhibitor discovery"

Host: Dr. David Litchfield

Monday, 16 Jun 2014

Dr. Barbara Funnell, Department of Molecular Genetics, University of Toronto

**"Surfing on the bacterial chromosome: the dynamics of plasmid partition promoted by ParA
ATPases"**

Host: Dr. David Haniford

Friday, 15 Aug 2014

Dr. Vladimir Uversky, University of South Florida

"Intrinsically disordered proteins: Dancing protein clouds"

Host: Dr. James Choy

Friday, 3 Oct 2014

Dr. Eric Arts, Chair, Dept. of Microbiology and Immunology, Western

"HIV-1 RNA: functions in virus replication and target for new drugs"

Host: Dr. David Haniford

Friday, 10 Oct 2014

Dr. Maud L. Menten Memorial Symposium

Introductory Remarks - Dr. David Litchfield, Chair, Department of Biochemistry

9:00 a.m.

Dr. Joe Mymryk, Department of Microbiology & Immunology

"Reorganization of the host epigenome by the adenovirus E1A oncoprotein"

9:45 a.m.

NEW FACULTY SEMINAR SERIES SPEAKER

Dr. Jamie Kramer, Department of Physiology & Pharmacology

"Epigenetics in Intellectual Disability"

10:30 a.m.

Break

11:00 a.m.

Keynote Speaker

Dr. Yi Zhang, Howard Hughes Medical Institute, Program in Cellular and Molecular Medicine, Boston Children's Hospital, Dept. of Genetics and Dept. of Pediatrics, Harvard Medical School, Boston, MA

"Mechanism and function of dynamic regulation of DNA methylation"

Host: Dr. Shawn Li

17 Oct 2014

Dr. Heleen Arts, Radboud University Medical Centre, Netherlands

"Molecular genetics and biology of ciliary disorders"

Host: Dr. Chris Brandl

Friday, 24 Oct 2014

Dr. Ruud Veldhuizen, Lawson Health Research Institute, Depts. of Medicine and Physiology & Pharmacology

"Still blowing bubbles: impaired surfactant function in lung injury"

Host: David Haniford

Friday, 31 Oct 2014

Dr. Nina Jones, CRC in Eukaryotic Cellular Signalling, Dept. of Molecular and Cellular Biology, University of Guelph

"Molecular mechanisms controlling kidney podocyte morphology"

Host: Dr. Fred Dick

Friday, 7 Nov 2014

Dr. Ian Lorimer, J. Adrien and Eileen Leger Chair in Cancer Research, Senior Scientist, Ottawa Hospital Research Institute, and Associate Professor, University of Ottawa

"PTEN and glioblastoma tumour initiating cell differentiation"

Host: Dr. David Litchfield

Friday, 21 Nov 2014

Dr. Maud L. Menten Memorial Lecture Series

Dr. Or Gozani, Department of Biology, Stanford University, Stanford, CA

"Role of Lysine Methylation Signaling in Epigenetic and Disease Regulation"

Host: Dr. Shawn Li

Friday, 28 Nov 2014

Dr. Reinhart Reithmeier, Dept. of Biochemistry, University of Toronto

"Mentorship Matters: the Case for Graduate Professional Development"

Host: David Litchfield

Friday, 5 Dec 2014

Dr. Maud L. Menten Memorial Lecture Series

Dr. Tim Hughes, CRC in Genomics, Dept. of Molecular Genetics, and Terrence Donnelly Centre for Cellular and Biomolecular Research, University of Toronto

"DNA and RNA binding motifs for decoding gene regulation"

Host: Dr. Peter Rogan

2015

Friday, 23 Jan 2015

Dr. Frank Beier, Canada Research Chair in Musculoskeletal Research, Professor and Assistant Chair, Department of Physiology and Pharmacology, Western

"Why should we care about osteoarthritic mice?"

Host: Dr. Fred Possmayer

Friday, 30 Jan 2015

Dr. Maud L. Menten Memorial Lecture Series

Dr. Brendan Frey, Department of Electrical and Computer Engineering, Banting & Best Department of Medical Research, Department of Computer Science, University of Toronto

"The human splicing code reveals new insights into the genetic determinants of disease"

Host: Dr. Rob Hegele

Friday, 6 Feb 2015

Dr. Maud L. Menten Memorial Lecture Series

Dr. Stephane Richard, Departments of Oncology and Medicine, McGill University

"Low complexity harboring proteins and protein methylation in cancer"

Host: Dr. Shawn Li

Friday, 27 Feb 2015

Dr. Leanne Wybenga-Groot, SPARC BioCentre, The Hospital for Sick Children, Toronto

"Drug discovery, cell metabolism analysis, and more; how SPARC can ignite your research"

Host: Dr. Brian Shilton

Friday, 27 Mar 2015

Dr. Maud L. Menten Memorial Lecture Series

Dr. Jeff Brodsky, Avinoff Professor of Biological Sciences, Department of Biological Sciences, University of Pittsburgh

"Endoplasmic Reticulum Associated Degradation (ERAD) and Protein Quality Control: Lessons from Model Systems and Novel Therapeutics"

Host: Dr. David Haniford

Friday, 24 Apr 2015

Dr. Joan Knoll, Professor, Department of Pathology and Laboratory Medicine, Division Head, Molecular Diagnostics, London Health Sciences Centre

"Ultrastructural Differences between Homologous Metaphase Chromosomes and their Underlying Mechanism"

Host: Dr. David Haniford

Friday, 1 May 2015

Dr. Lori Burrows, Department of Biochemistry & Biomedical Sciences, Pathology & Molecular Medicine, McMaster University

"Agents Provocateur: Stimulation of biofilm formation by small molecules"

Host: Dr. Murray Junop

Friday, 22 May 2015

Dr. Maud L. Menten Memorial Spring Symposium

9:00 am

Welcome & Introductory Lecture - Dr. David Litchfield

"Deciphering Cellular Decisions of Life and Death"

9:30 am

Dr. Patrick O'Donoghue

"Genetically Encoded Protein Phosphorylation"

10:00 am Dr. Shawn Li

"Post-translational Modifications in Health and Disease"

10:30 am

Coffee Break

11:00 am

Key Note

Dr. Stefan Knapp, Professor of Structural Biology, Structural Genomics Consortium, University of Oxford, Oxford, UK

"Selective Targeting of Epigenetic Effector Domains of the Bromodomain Family in Cancer"

Host: Dr. David Litchfield

Friday, 5 June 2015

Dr. Travis Banks, Research Scientist, Bioinformatics, Vineland Research and Innovation Centre,

Vineland, ON

"Vineland - Applying Genomics for Plant Improvement"

Host: Dr. Brian Shilton

Friday, 19 June 2015

Dr. Maud L. Menten Memorial Lecture Series

Prof. Mingjie Zhang, Kerry Holdings Professor of Science, Chair Professor, Division of Life Science, Hong Kong University of Science and Technology

"Scaffold Proteins in Neuronal Development and Signaling"

Host: Dr. Shawn Li

Friday, 10 July 2015

Dr. Zhenguo Wu, Professor, Division of Life Science, Hong Kong University of Science and Technology

"Brown fat or skeletal muscles? An intrinsic cell fate choice"

Host: Dr. Shawn Li

Wednesday, 15 July 2015

Dr. Michael Boffa, Associate Professor, Department of Chemistry & Biochemistry, University of Windsor

"Thrombin-Activatable Fibrinolysis Inhibitor (TAFI): Anti-Hero or Anti-Villain"

Host: Dr. David Litchfield

Friday, 2 Oct 2015

Dr. Bruce Palfey, Department of Biological Chemistry, University of Michigan Medical School

"A New Redox State in Flavin Enzymology"

Host: Dr. Brian Shilton

Thursday, 8 Oct 2015

Dr. Maud L. Menten Memorial Lecture Series

Jeffrey A. Whitsett, MD, Co-Director, Perinatal Institute; Chief, Section of Neonatology, Perinatal and Pulmonary Biology; Interim Director, CCRF, Basic Science; Cincinnati Children's Hospital Medical Center

"Dissecting Lung Formation Using Single Cell Transcriptomics"

Host: Dr. Fred Possmayer

Friday, 23 Oct 2015

Dr. Robert Screaton, Senior Scientist, Sunnybrook Health Sciences Centre, Toronto

"Delineating novel signaling pathways using functional genomics"

Host: Dr. David Litchfield

Friday, 6 Nov 2015

Dr. Maud L. Menten Memorial Lecture Series

Dr. Natalie Ahn, Department of Chemistry and Biochemistry, University of Colorado at Boulder

"Phosphorylation-regulated protein dynamics in kinases, and implications for inhibitor design: The

case of ERK2"

Host: Dr. David Litchfield

Friday, 27 Nov 2015

Dr. Paula Foster, Robarts Research Institute, Western University

"In Vivo Cell Tracking Using MRI"

Host: Dr. David Litchfield

2016

Friday, 15 Jan 2016

Dr. Boris Zhorov, Emeritus Professor, Dept. of Biochemistry & Biomedical Sciences, McMaster University, Hamilton, ON

"Computational structural pharmacology and toxicology of ion channels"

Host: Dr. Murray Junop

Friday, 29 Jan 2016

Dr. Hendrik Poinar, Dept. of Anthropology, McMaster University, Hamilton, ON

"Ancient DNA and temporal investigations into infectious disease"

Hosts: Drs. Peter Rogan and Murray Junop

Friday, 5 Feb 2016

[Dr. Maud L. Menten Memorial Lecture Series](#)

Dr. Brian Kennedy, President and CEO of the Buck Institute for Research on Aging, Novato, CA

"Drugs that forestall aging - extending healthspan"

Host: Dr. Fred Dick

Friday, 19 Feb 2016

Dr. Carsten Hansen, Chancellor's Fellow, MRC Centre for Inflammation Research, Queen's Medical Research Institute, University of Edinburgh, UK

"The Hippo pathway - YAP and TAZ promote cell growth by modulating amino acid signaling to mTORC1"

Host: Dr. Shawn Li

Friday, 4 Mar 2016

[Dr. Maud L. Menten Memorial Lecture Series](#)

Dr. Mikko Taipale, Dept. of Molecular Genetics, Donnelly Centre for Cellular & Biomolecular Research, University of Toronto, Toronto, ON

"Systematic phenotyping of Mendelian disease variants"

Hosts: Depts. of Biochemistry and Pathology & Laboratory Medicine (Drs. Martin Duennwald and David Litchfield)

Friday, 18 Mar 2016

Dr. Lana Lee, Dept. of Chemistry & Biochemistry, University of Windsor, Windsor, ON

"Lessons learned; lessons taught - facilitating medical education at a satellite campus"

Host: Dr. David Litchfield

Friday, 8 Apr 2016

Dr. Maud L. Menten Memorial Lecture Series

Dr. Karsten Hiller, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

"Metabolic rewiring of macrophages during inflammation: How metabolism provides antimicrobial activity and regulates inflammation"

Host: Dr. Ilka Heinemann

Friday 15 Apr 2016

Dr. Maud L. Menten Memorial Lecture Series

Dr. Jim R. Woodgett, Director of Research, The Lunenfeld-Tanenbaum Research Institute, Toronto, ON

"Reduction to practice: anecdotes of cell signaling robustness"

Host: Dr. Shawn Li

Friday 22 Apr 2016

Dr. Michelle Longworth, Assistant Staff, Dept. of Cellular and Molecular Medicine, Lerner Research Institute, Cleveland, OH

"Conserved, non-canonical functions of Condensin II"

Host: Dr. Fred Dick

Thursday, 19 May 2016

Dr. Maud L. Menten Memorial Spring Symposium

9:30 am

Welcome - Dr. David Litchfield, Chair, Dept. of Biochemistry, Western University, London, ON

9:35 am

Dr. James Choy, Dept. of Biochemistry, Western University, London, ON

"Intrinsically disorder-based protein-protein interactions in the Nrf2/Keap1 pathway"

10 am

Keynote Speaker

Dr. Julie Forman-Kay, Senior Scientist and Program Head, Molecular Structure and Function, Hospital for Sick Children; Professor, Dept. of Biochemistry, University of Toronto, Toronto, ON

"Dynamic interactions of intrinsically disordered proteins in biological regulation and cellular organization"

Host: Dr. Shawn Li

11 am

Coffee Break

11:15 am

Dr. Brian Shilton, Dept. of Biochemistry, Western University, London, ON

"Quinone reductase 2: enzyme or redox switch?"

11:45 am

Keynote Speaker

Dr. Elias Arner, Dept. of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden

"The selenoprotein thioredoxin reductase in control of cellular signaling pathways and as an anticancer drug target"

Host: Dr. David Litchfield

Friday, 10 June 2016

Dr. Marlys Koschinsky, Scientific & Executive Director, Robarts Research Institute, Western University

"Fifty-three years of lipoprotein(a): advances, controversies, and opportunities"

Host: Dr. David Litchfield

Tuesday, 28 June 2016

Dr. Nicholas Bisson, Canada Research Chair in Cancer Proteomics, Associate Professor, Faculty of Medicine, and Investigator, Cancer Research Centre and PROTEO, Université Laval; Investigator, CHU de Québec Research Centre

"Functional proteomic insights into adaptor protein biology"

Host: Dr. Shawn Li

Wednesday, 17 Aug 2016

Dr. Voula Kanelis, Dept. of Chemical and Physical Sciences, University of Toronto, Toronto, ON

"Regulatory interactions control the activity of SUR2B, the regulatory subunit of ATP sensitive potassium channels"

Host: Dr. James Choy

Thursday, 29 Sept 2016

[Dr. Maud L. Menten Memorial Lecture Series](#)

Dr. Dieter Soll, Dept. of Molecular Biophysics and Biochemistry, and Dept. of Chemistry, Yale University, New Haven, CT

"The genetic code in the age of synthetic biology"

Host: Dr. Patrick O'Donoghue

Friday, 28 Oct 2016 – Synthetic Biology Series

Dr. Bogumil Karas, Adjunct Professor, Dept. of Biochemistry, Western University; Founder, President, and Chief Scientific Officer, Designer Microbes Inc.

"Strategies for cloning and manipulating genome-scale DNA fragments"

Host: Dr. David Haniford

Friday, 4 Nov 2016

[Dr. Maud L. Menten Memorial Fall Symposium](#)

9:30 am

Welcome - Dr. David Litchfield, Chair, Dept. of Biochemistry, Western University

9:35 am

Dr. Stephen Barr, Dept. of Microbiology & Immunology, Western University

"HERC5: a novel antiviral E3 ligase 500 million years in the making"

10:05 am

Dr. Martin Duennwald, Dept. of Pathology & Laboratory Medicine, Western University

"Protein quality control gone astray? - the ubiquitin ligase Parkin in Parkinson's Disease"

10:35 am

Coffee Break

11:00 am

Introduction of Key Note - Dr. Gary Shaw, Dept. of Biochemistry, Western University

Keynote Speaker

Dr. David Barford, MRC Laboratory of Molecular Biology, Cambridge, UK

"Structural basis for the regulation of the anaphase promoting complex in mitosis"

Host: Dr. Gary Shaw

Friday, 11 Nov 2016

Dr. Vava Grbic, Dept. of Biology, Western University

"Concepts of plant-herbivore interactions: a case of an extreme generalist, the two spotted spider mite, Tetranychus urticae"

Host: Dr. David Haniford

Friday, 25 Nov 2016

Dr. Christopher Garnham, Research Scientist, Agriculture and Agri-Food Canada, London, ON

"Mechanistic dissection of tubulin post-translational modification"

Host: Dr. David Litchfield

Friday, 16 Dec 2016

Dr. Jeff Frisbee, Chair, Dept. of Medical Biophysics, Western University

"Increased vascular disease risk and perfusion adaptability in the skeletal muscle microcirculation"

Host: Dr. David Litchfield

2017

13 Jan 2017

Dr. Walid Houry, Professor, Dept. of Biochemistry, University of Toronto, Toronto, ON

"Targeting Cellular Protein Homeostasis for Antibiotic Development: Insights from the ClpXP Degradation System"

Host: Dr. Chris Brandl

27 Jan 2017

Dr. Cheryle Seguin, Dept. of Physiology and Pharmacology, Western University, London, ON

"From development to disease: The role of progenitor cells in the intervertebral disc"

Host: Dr. Gilles Lajoie

13 Feb 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Aled Edwards, Professor at University of Toronto; CEO of Structural Genomics Consortium, Toronto, ON

"Open science to advance knowledge and drug discovery"

Host: Dr. David Litchfield

24 Feb 2017

Dr. Andrew Leask, Dept. of Physiology and Pharmacology, Western University, London, ON

"Targeting the microenvironment: the CCN proteins as therapeutic targets for fibroproliferative disease"

Host: Fred Possmayer

24 Mar 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Mick Bhatia, Director and Senior Scientist of McMaster Stem Cell and Cancer Research Institute; Professor of Dept. of Biochemistry and Biomedical Sciences, McMaster University, Hamilton, ON

"Applications of Human Stem Cell Biology toward Clinical Translation"

Host: Dr. David Litchfield

21 Apr 2017

Dr. Maud L. Menten Memorial Lecture Series

Professor Albert Heck, Biomolecular Mass Spectrometry and Proteomics, Bijvoet Center for Biomolecular Research and Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, Netherlands

"Complementary Mass Spectrometry based Methods for Probing Protein Assemblies and Interactions"

Hosts: Drs. Gilles Lajoie and Lars Konermann

19 May 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Michael Surette, Canada Research Chair in Interdisciplinary Microbiome Research, Farncombe Family Digestive Health Research Institute, Dept. of Biochemistry & Biomedical Sciences, and Dept. of Medicine, McMaster University, Hamilton, ON

“Microbial Diversity Under (or in) Our Nose: Microbe-Microbe and Microbe-Host interactions in the Streptococcus Milleri/Anginosus Group”

Host: Dr. David Haniford

2 June 2017

Dr. Maud L. Menten Memorial Spring Symposium

9:00 am

Introductory remarks

9:05 am

Dr. Patrick O’Donoghue, Dept. of Biochemistry, Western University, London, ON

"Genetic code expansion and live cell imaging reveal phosphothreonine 308 is irreplaceable and sufficient for Akt activity"

9:45 am

Dr. Shawn Li, Dept. of Biochemistry, Western University, London, ON

"Dynamic post-translational modifications in cancer metastasis and therapeutic resistance"

10:30 am

Break

10:50 am

Keynote Speaker

Dr. Mien-Chie Hung, Vice President for Basic Research; Professor and Chair; Department of Molecular and Cellular Oncology, University of Texas, and MD Anderson Cancer Center, Houston, TX

"Marker-guided targeted therapy, PARP inhibitors, and novel post-translational modification of PD-L1"

Host: Dr. Shawn Li

29 Sept 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Lawrence McIntosh, Depts. of Biochemistry and Molecular Biology, and Chemistry, UBC, Vancouver, BC

"Protein Droplets: Phase Separation of a Mycobacterium tuberculosis ABC Transporter"

Host: Dr. Gary Shaw

3 Nov 2017

Vincenzo Coppola, MD; Assistant Professor, Cancer Biology & Genetics; Director, GEMMC; Ohio State University Comprehensive Cancer Center, Columbus, OH

"Role of RanBP9 in tumorigenesis"

Host: Dr. Caroline Schild-Poulter

16 Nov 2017

Dr. Maud L. Menten Memorial Fall Symposium

9:00 am

Dr. Chris Brandl, Department of Biochemistry, Western University, London, ON

“Evolving mistranslating tRNAs through a phenotypically ambivalent intermediate”

9:30 am

Dr. Ilka Heinemann, Department of Biochemistry, Western University, London, ON

“Posttranscriptional RNA editing: Changing the fate of RNAs”

10:00 am

Break

10:20 am

Keynote Speaker

Dr. Juan Alfonzo, Arts and Sciences Distinguished Professor, Dept. of Microbiology, Ohio State University, Columbus, OH

“Bridging the gap between editing and modification: A 10-year solution to a 25-year problem”

Host: Dr. Pat O'Donoghue

17 Nov 2017

Dr. Hans-Joachim Wieden, Departments of Chemistry and Biochemistry, University of Lethbridge, Lethbridge, AB

“Enabling next-generation synthetic biology – investigating the design principles of bacterial gene expression”

Host: Dr. Bogumil Karas

24 Nov 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Nabil Seidah, Director of Laboratory of Biochemical Neuroendocrinology, Montreal Clinical Research Institute (IRCM), Montreal, QC

“The biology and multifaceted functions of the proprotein convertases”

Host: Dr. Mike Boffa

1 Dec 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Kathryn Moore, Jean and David Blechman Professor of Cardiology, Dept. of Medicine; Professor, Dept. of Cell Biology; New York University Medical Center, New York, NY

“Non-coding RNA Regulation of Cholesterol Homeostasis and Atherosclerosis”

Host: Dr. Murray Huff

15 Dec 2017

Dr. Maud L. Menten Memorial Lecture Series

Dr. Linda Penn, Senior Scientist at Princess Margaret Cancer Centre; Professor, Dept. of Medical Biophysics, University of Toronto, Toronto, ON

“MYC phosphorylation regulates chromatin binding and protein stability”

Host: Dr. David Litchfield

2018

2 Feb 2018

Dr. Dinesh Christendat, Dept. of Cell & Systems Biology, University of Toronto, Toronto, ON

“An Unusual Convergence: The Evolution and Diversity of Proteins in Specialized Metabolism”

Host: Dr. Brian Shilton

16 Feb 2018

Dr. Maud L. Menten Memorial Lecture Series

Dr. Ivan Topisirovic, Scientist, Lady Davis Institute, Jewish General Hospital; Departments of Medicine and Oncology, McGill University, Montreal, PQ

“Translational and metabolic dysregulation in neoplasia”

Host: Dr. David Litchfield

23 Feb 2018

Dr. Paul Walton, Dept. of Anatomy and Cell Biology, Western University, London, ON

“Closing the triangle: the redox regulation of catalase localization”

Host: Fred Possmayer

2 Mar 2018

Dr. Daniel Cipriano, former Associate Principal Scientist - Protein Purification and Analytical Characterization, Merck Research Laboratories, Palo Alto, CA

“Early Developability Assessment of Therapeutic Proteins During the Discovery Phase of Biologics Development”

Host: Dr. Stanley Dunn

16 Mar 2018

Dr. Meera Nanjundan, Associate Professor, Dept. of Cell Biology, Microbiology, and Molecular Biology (CMMB), University of South Florida, Tampa, FA

“Role of Iron in the Transition from Precursor Lesions to Ovarian Carcinomas”

Host: Dr. Fred Possmayer

6 Apr 2018

Dr. Amanda Moehring, Dept. of Biology, Western University, London, ON

“The genetic and neural basis of female mate preference”

Host: Dr. Chris Brandl

13 Apr 2018

Dr. Maud L. Menten Memorial Lecture

Dr. Wyeth Wasserman, Executive Director, BC Children's Hospital Research Institute; Associate Dean for Research, Faculty of Medicine; Senior Scientist, Centre for Molecular Medicine and Therapeutics; Professor, Department of Medical Genetics, University of British Columbia, Vancouver, BC

“Applied bioinformatics for the identification of functional alterations in the human genome”

Host: Dr. Peter Rogan

20 Apr 2018

Dr. Vivian Saridakis, Dept. of Biology, York University, Toronto, ON

"Structural Basis of Interaction of Herpesvirus Proteins with the Deubiquitinase USP7"

Host: Dr. Gary Shaw

27 Apr 2018

Dr. Julie Claycomb, Canada Research Chair in Small RNA Biology, Associate Chair of Dept. of Molecular Genetics, University of Toronto, Toronto, ON

"Small RNA Pathways as Epigenetic Architects: Guarding the Genome and Defending Development"

Host: Dr. Ilka Heinemann

4 May 2018

Dr. Kevin Shoemaker, Distinguished University Professor, Canada Research Chair, Associate Dean (Research), Faculty of Health Sciences, Western University, London, ON

"Neural Control of Stress Responses: Implications for oxygen delivery during breath hold diving"

Host: Dr. Derek McLachlin

25 May 2018

Dr. Maud L. Menten Memorial Spring Symposium

9:00 am

Dr. David Edgell, Associate Professor & Acting Chair, Dept. of Biochemistry, Western University, London, ON

"Controlling the microbiome with bacterial sex and death"

9:45 am

Dr. Rima Menassa, Adjunct Professor, Dept. of Biology, Western University, London, ON

"Plant-made VLP vaccines and chimeric antibodies for animal health"

10:30 am

Break

11 am

Keynote Speaker

Dr. Vincent Martin, Professor and Concordia University Research Chair; Co-Director, Centre for Applied Synthetic Biology, Biology Department, Concordia University, Montreal, PQ

"Natural Products: From Plant to Yeast Genomes"

Host: Dr. Bogumil Karas

22 June 2018

Dr. Mark Held, Scientist III at Lygos, Inc., Berkeley, CA

"Finding that elusive 'career job'. Managing the transition from academia to industry"

Host: Dr. Bogumil Karas

21 Sep 2018

Dr. Maud L. Menten Memorial Lecture

Dr. Geoffrey Hammond, Department of Cellular & Physiological Sciences, Faculty of Medicine, The University of British Columbia, Vancouver, BC

"Extracellular Gatekeepers of Steroid Hormone Action"

Host: Dr. Fred Possmayer

5 Oct 2018

Dr. Maud L. Menten Memorial Lecture

Dr. Stephen Kowalczykowski, Dept. of Microbiology and Molecular Genetics and Dept. of Molecular and Cellular Biology, University of California, Davis, CA

"Visual Biochemistry: Seeing and Understanding Biology, One Molecule at a Time"

Host: Dr. Hong Ling

12 Oct 2018

Dr. Maud L. Menten Memorial Lecture

Dr. Karin Musier-Forsyth, Ohio Eminent Scholar, Dept. of Chemistry and Biochemistry, The Ohio State University, Columbus, OH

"Repurposing of tRNAs and aminoacyl-tRNA synthetases for retroviral replication"

Host: Dr. Chris Brandl

19 Oct 2018

Dr. Shawn Whitehead, Dept. of Anatomy and Cell Biology, Western University, London, ON

"White matter inflammation and cognitive impairment - a reversible phenomenon?"

Host: Dr. Ilka Heinemann

30 Oct 2018

Dr. Maud L. Menten Memorial Lecture

Dr. Kaspar Locher, Institute of Molecular Biology and Biophysics, ETH Zurich, Zurich, Switzerland

"Cryo-EM structures of human multidrug ABC transporters provide insight into drug transport and small-molecule inhibition"

Host: Dr. Brian Shilton

9 Nov 2018

Dr. Maud L. Menten Memorial Fall Symposium

9:00 am

Dr. Trevor Shepard, Departments of Obstetrics & Gynecology, Oncology and Anatomy and Cell Biology, Western University, London, ON

"Deciphering the divergent role of LKB1 in supporting ovarian cancer metastasis"

9:30 am

Dr. Fred Dick, Departments of Biochemistry and Oncology, Western University, London, ON

"A CRISPR based screening approach to discover genes required for ovarian cancer cell dormancy"

10:00 am

Coffee break

10:30 am

Keynote Speaker

Dr. Robert Rottapel M.D., F.R.C.P.C., Senior Scientist, Princess Margaret Cancer Centre; Professor

University of Toronto; Program Leader, Ontario Institute for Cancer Research and Terry Fox Research Institute

"Emergent Pathway Dependencies in High Grade Ovarian Cancer"

Host: Dr. Fred Dick

23 Nov 2018

Dr. Michael Moran, Dept. of Molecular Genetics, University of Toronto; Senior Scientist in Cell Biology at Hospital for Sick Children Research Institute, Toronto, ON

"Omics Integration implicates polygenic drivers in lung cancer"

Host: Jacqueline Dron

30 Nov 2018

Dr. Fred Possmayer, Professor Emeritus, Depts. of Biochemistry and Obstetrics & Gynecology, Western University, London, ON

"Pulmonary Surfactant for Treatment of Premature Infants"

Host: Dr. Bogumil Karas

2019

11 Jan 2019

Dr. Peter Rogan, Dept. of Biochemistry, Western University, London, ON

"Applications of machine learning in our genome bioinformatics laboratory"

Host: Dr. Bogumil Karas

15 Feb 2019

Dr. David Litchfield, Depts. of Biochemistry and Oncology; Vice Dean of Research and Innovation, Schulich School of Medicine & Dentistry, Western University, London, ON

"Biomedical Research in the 21st Century: Are We There Yet?"

Host: Dr. Bogumil Karas

22 Feb 2019

Dr. Tugce Balci, Clinical Geneticist and Assistant Professor, Division of Genetics, Department of Pediatrics, London Health Sciences Centre - Victoria Hospital, London, ON; Dept. of Biochemistry, Western University, London, ON

"What is Left? A Proposed Framework to Solve the Unsolved Rare Genetic Diseases"

Host: Dr. Bogumil Karas

1 Mar 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Laura Buttitta, Dept. of Molecular, Cellular, & Developmental Biology, University of Michigan, Ann Arbor, MI

"Examining different states of Gzero using the Drosophila wing"

Host: Dr. Fred Dick

15 Mar 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Michael Ibba, Professor & Chair of Microbiology, The Ohio State University, Columbus, OH

“Translational Control of Bacterial Adaptation and Antibiotic Resistance”

Host: Dr. Ilka Heinemann

22 Mar 2019

Dr. Caroline Schild-Poulter, Dept. of Biochemistry, Western University, London, ON

“The tip of the iceberg: what we know about the activity and function of the CTLH E3 ubiquitin ligase complex”

Host: Dr. Bogumil Karas

29 Mar 2019

Dr. Marlys Koschinsky, Depts. of Physiology & Pharmacology, and Dept. of Biochemistry; and Scientific & Executive Director of Robarts Research Institute, Western University, London, ON
and

Dr. Mike Boffa, Dept. of Biochemistry, Western University, London, ON

“A Family Affair: Metabolism and Pathophysiology of Lipoprotein(a), the Most Prevalent Inherited Risk Factor for Coronary Heart Disease”

Host: Dr. Bogumil Karas

5 Apr 2019

Dr. Christopher Garnham, Research Scientist, Agriculture and Agri-Food Canada, London, ON; Dept. of Biochemistry, Western University, London, ON

“Novel enzymatic strategies for mycotoxin mitigation and vaccine design at AAFC London”

Host: Dr. Bogumil Karas

12 Apr 2019

Dr. Chris Brandl, Dept. of Biochemistry, Western University, London, ON

“tRNA variation and mistranslation”

Host: Dr. Bogumil Karas

26 Apr 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Frank Sicheri, Depts. of Biochemistry and Medical Genetics, University of Toronto, Toronto, ON

“Structural Principles of RAF family kinase regulation”

Host: Dr. Shawn Li

3 May 2019

Dr. Maud L. Menten Memorial Spring Symposium

Talks given by Biochemistry Graduate Students

9:30 am

Matthew Berg - Opening Remarks

9:35 am

Karen Dunkerley "The E3 ligase parkin requires a ligated pUb to efficiently polyubiquitinate a substrate"

9:50 am

Thomas Hamilton "Bacterial sex and death: how it could help you(r microbes)"

10:05 am

Allison Dilliot "The association between APOE E4 and cognitive function in neurodegenerative disorders"

10:20 am

Aren Marshall "An RB-Condensin II complex mediates long range chromosome interactions and regulates expression at divergently paired genes"

10:45 am

Coffee break

11:00 am

Keynote Speaker

Dr. Judit Villen, Genome Sciences Dept., University of Washington, Seattle, WA

"Identifying deleterious mutations across the proteome by limited mistranslation mutagenesis"

Host: Matt Berg

7 May 2019

Dr. Tina Sing, Post-doctoral Researcher, UC Berkeley, Berkeley, CA

"Leveraging gametogenesis-specific rejuvenation pathways to counteract cellular aging in *S. cerevisiae*"

Host: Matt Berg

17 May 2019

Dr. Brian Shilton, Dept. of Biochemistry, Western University, London, ON

"Quinone Reductase 2 and Cell Death by Kinase Inhibitors and Chloroquine"

Host: Dr. Bogumil Karas

24 May 2019

Dr. Saqib Sachani, Business Development Officer, WORLDdiscoveries, Western University, London, ON

"Path to Technology Transfer and Research Commercialization"

Host: Dr. Bogumil Karas

27 May 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Nediljko Budisa, Department of Chemistry, University of Manitoba, Winnipeg, MB

"Synthetic Biology of an Expanded Genetic Code"

Lecture took place at University of Waterloo for the SynBio conference

30 May 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Donald Spratt, Carlson School of Chemistry & Biochemistry, Clark University, Worcester, MA
“Structure and Mechanism of HECT E3 Ubiquitin Ligases”

Host: Dr. Pat O'Donoghue

23 July 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Zhen Liu, NJU Distinguished Professor, State Key Lab of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China

“Advanced Molecularly Imprinted Materials for Affinity Separation, Disease Diagnosis, Single-Cell Analysis, Bioimaging and Cancer Therapy”

Host: Dr. Shawn Li

12 Sep 2019

Dr. Maud L. Menten Memorial Fall Symposium

9:00 am

Keynote Speaker

Dr. Helen Walden, Institute of Molecular, Cell and Systems Biology; University of Glasgow, Glasgow, UK

“Specificity and Disease in the Ubiquitin System”

Hosts: Karen Dunkerley and Aisha Freeman (Shaw lab)

10:00 am

Coffee break

10:30 am

Megan Rowland, supervisor Dr. Nathalie Berube

10:45 am

Matt Berg, supervisor Dr. Chris Brandl

11:00 am

Sonja Di Gregorio, supervisor Dr. Martin Duennwald

11:15 am

Yuning Wang, supervisor Dr. Gary Shaw

4 Oct 2019

Dr. Nili Ostrov, Post-Doctoral Researcher, Dept. of Genetics, Harvard Medical School, Boston, MA
“Construction of synthetic chromosomes and tools for genome-wide perturbations”

Host: Dr. Bogumil Karas

11 Oct 2019

Dr. Patrick Lajoie, Dept. of Anatomy and Cell Biology, Western University, London, ON
“PolyQ proteins, aging and proteostasis: modeling human diseases in yeast”

Host: Dr. Bogumil Karas

18 Oct 2019

Dr. Maud L. Menten Memorial Lecture

Dr. Sean Bendall, Dept. of Pathology, Stanford University, Stanford, CA

Recipient of Schulich's Young Alumni of Distinction Award (2019)

"Massively Multiplexed Single Cell Analysis to Predict and Control Human Pathobiology"

Host: Dr. Gilles Lajoie

1 Nov 2019

Dr. Maud L. Menten Memorial Lecture

Dr. George Colin diCenzo, Dept. of Biology, Queen's University, Kingston, ON

"Metabolism of nitrogen-fixing legume nodules through the lens of experimental genetics and in silico modelling"

Host: Dr. Bogumil Karas

29 Nov 2019

Dr. Geoff Pickering; Depts. of Medicine, Biochemistry, and Medical Biophysics; Western University, London, ON

"Cellular Senescence and Aortic Wall Catastrophes"

Host: Dr. Fred Possmayer

6 Dec 2019

Dr. Christopher Guglielmo, Dept. of Biology, Western University, London, ON

"Obese super athletes: the migration physiology of birds and bats"

Host: Dr. Fred Possmayer

2020

31 Jan 2020

Dr. Maud L. Menten Memorial Lecture

Dr. Steve Smith, Vice-Dean Research, Faculty of Health Sciences; Professor, Dept. of Biomedical and Molecular Sciences and Dept. of Chemistry, Queen's University, Kingston, ON

"Molecular basis of gene deregulation by the transcription factor E2A-PBX1 in acute lymphoblastic leukemia"

Host: Dr. Gary Shaw

21 Feb 21 2020

Dr. Tugce B. Balci, Clinical Geneticist, LHSC, Victoria Hospital; and Depts. of Biochemistry and Paediatrics, Western University, London, ON

"Publishing: Industry, Impact, Access"

Host: Dr. Bogumil Karas

6 Mar 2020

Dr. Peter Rogan, Depts. of Biochemistry, Oncology, and Computer Science, Western University, London, ON

"Implications of genome-wide, splicing mutation analysis at population-scale"

Host: Dr. Bogumil Karas

Remaining seminars for March-Oct cancelled because of COVID-19 pandemic

6 Nov 2020 (virtual)

Dr. Maud L. Menten Memorial Lecture

Dr. Yingming Zhao, Ben May Department of Cancer Research, University of Chicago, Chicago, IL

"A New Family of Histone Lysine Acylation Pathways Linking Metabolism to Gene Expression"

Host: Dr. Derek McLachlin

27 Nov 2020 (virtual)

Dr. Maud L. Menten Memorial Lecture

Dr. Paul Wilmes, Luxembourg Centre for Systems Biomedicine, University of Luxembourg, Luxembourg

"Systems ecology of disease: the example of Parkinson's"

Host: Dr. Greg Gloor

4 Dec 2020 (virtual)

Dr. Maud L. Menten Memorial Fall Symposium

9:30 am

Dr. Peter Rogan (Biochemistry Dept., Western University)

"A proposed molecular mechanism for pathogenesis of severe RNA viral pulmonary infections"

Talks given by Biochemistry Graduate Students

9:50 am

Sam Slattery (Edgell Lab)

"Algal Cell Factories Producing Viral Antigens"

10:10 am

Jeremy Lant (O'Donoghue Lab)

"Developing a dual fluorescent assay for inhibitors of SARS-CoV2 spike protein binding in human cell culture"

10:30 am

Dan Giguere (Gloor Lab)

"In-house full plasmid sequencing to enable rapid synthetic biology"

10:50-11 am

BREAK

11 am

Keynote Lecture

Dr. Elisabeth Bik, @MicrobiomeDigest, Harbers-Bik LLC

"Image Duplication and Research Misconduct in Biomedical Papers"

Host: Dr. Greg Gloor

11 Dec 2020 (virtual)

Dr. Maud L. Menten Memorial Lecture

Dr. Carmen Argmann, Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, NY

"Assessing complex diseases by Molecular and Network Ways"

Host: Dr. Peter Rogan

2021

29 Jan 2021 (virtual)

Dr. Maud L. Menten Memorial Lecture

Dr. Dalia Barsyte-Lovejoy, Principal Investigator, Structural Genomics Consortium; Assistant Professor, Dept of Pharmacology and Toxicology, University of Toronto, Toronto, ON

"Protein methylation in chromatin regulation stress response and cancer"

Host: Dr. Caroline Schild-Poulter

26 Mar 2021 (virtual)

Dr. Styliani Conostas, Department of Chemistry, Western University, London, ON

"Computational insight into the interactions of solvated simple and macro-ions"

Host: Dr. Brian Shilton

14 May 2021 (virtual)

Dr. Maud L. Menten Memorial Spring Symposium

9:30 am

Dr. Roux-Cil Ferreira (Poon Lab, Dept. of Pathology & Laboratory Medicine, Western University)

"Quantifying the clonality and dynamics of the within-host HIV-1 latent reservoir"

9:50 am

Dr. Nileeka Balasuriya (O'Donoghue Lab, Dept. of Biochemistry, Western University)

"Phosphorylation-dependent substrate selectivity of protein kinase B (Akt1)"

10:10 am

Dr. Tanner Tessier (Mymryk Lab, Dept. of Microbiology & Immunology, Western University)

"Motif-mediated virus-host protein interactions by human adenovirus E1A"

10:45 am

BREAK

11 am

Keynote Speaker

Dr. Ileana Cristea, Professor of Molecular Biology, Princeton University, Princeton, NJ

"Viral Infection-driven organelle remodeling viewed through the lens of proteomics"

Hosts: Dr. Pat O'Donoghue and Gabe Onea

17 Sept 2021 (virtual)

Dr. Lauren Cipriano, CRC in Healthcare Analytics, Management, and Policy; Dept. of Management Science, Ivey Business School; Dept. of Epidemiology and Biostatistics; Western University, London, ON

COVID-19 Projections for Fall 2021: 4th wave in London-Middlesex

Host: Dr. Greg Gloor

24 Sept 2021 (virtual)

Dr. Benjamin Scott, Business Development & Partnerships Engagement Advisor at Genome Foundry, Concordia University

"The Concordia Genome Foundry: Making Biology Easier to Engineer"

Host: Dr. Bogumil Karas

13 Oct 2021 (virtual) - joint speaker with Chemistry

Dr. Christopher Thibodeaux, Dept. of Chemistry, McGill University, Montreal, PQ

"Revealing the Mechanistic Roles of Enzyme Conformational Dynamics with Structural Mass Spectrometry"

Host: Dr. Lars Konermann

10 Dec 2021 (virtual)

Dr. Pingzhao Hu, Associate Professor, Department of Biochemistry and Medical Genetics, University of Manitoba, Winnipeg, MB

"Artificial Intelligence and Genomics-Empowered Precision Medicine for Complex Diseases"

Host: Dr. Greg Gloor

2022

28 Apr 2022

Dr. Teklab Gebregiworgis, Scientific Associate, Princess Margaret Cancer Centre, University Health Network, Toronto

"NMR Studies to elucidate Molecular Mechanisms of Disease and Biomarkers: Metabolomics and Oncoproteins"

Host: Dr. Greg Gloor

29 Apr 2022

Dr. Kun Ping Lu, Dept. of Biochemistry, Western University

"Pin1-Catalyzed Conformational Regulation: New Paradigm in Cell Signaling and Drug Discovery"

Host: Dr. Greg Gloor

17 Jun 2022

Dr. Tallulah Andrews, Dept. of Biochemistry, Western University

“Machine learning approaches to integrating high-resolution –omics technology with biological images”

Host: Dr. Brian Shilton

22 Aug 2022 (hybrid)

Dr. Rob Beiko, Faculty of Computer Science and Institute for Comparative Genomics, Dalhousie University, Halifax, NS

“Antimicrobial Resistance, Everywhere, All at Once”

Host: Dr. Greg Gloor

28 Sept 2022 (hybrid)

Dr. Qiang Yu, Senior Group Leader and Professor, Lab of Precision Cancer Medicine, Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR)

“Epigenetic Modulation of Tumour Immune Microenvironment: Implications in Cancer Immunotherapy”

Host: Dr. Greg Gloor

2023

12 Jan 2023 (hybrid)

Dr. Craig Dufresne, Thermo Fisher

“Discovering and Validating Clinical Biomarkers of Glaucoma Using High Resolution LCMS”

Host: Dr. Shawn Li

15 Feb 2023 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Martin Steinegger, Assistant Professor, Bioinformatics, Seoul National University, Korea

"Next Generation Protein Analysis Tools in the Era of Highly Accurate Protein Structure Prediction"

Host: Dr. Greg Gloor

17 Mar 2023 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Dajana Vuckovic, Associate Professor, Department of Chemistry and Biochemistry; Director, Centre of Biological Applications of Mass Spectrometry; Concordia University, Montreal, QC

"New Advances in LC-MS Lipidomics for Biomedical Applications"

Host: Dr. Greg Gloor

Schedule

10 am

Mallory Frederick, Graduate Student, Dept. of Biochemistry, Western University
"Changes in Glucose Processing during Metastasis of Epithelial Ovarian Cancer"

10:30 am

Dr. Teklab Gebregiorgis, Assistant Professor, Dept. of Biochemistry, Western University
"Exploring Metabolic Crosstalk between Pancreatic Stromal and Cancer Cells"

11 am

Keynote Lecture by Dr. Vuckovic

28 April 2023 (hybrid)

Dr. Jiqiang (Lanny) Ling, Associate Professor, Dept. Cell Biology and Molecular Genetics, University of Maryland, College Park, MD

"Making Sense of Missense and Nonsense: The Impact of Translational Errors"

Host: Dr. Patrick O'Donoghue

31 July 2023

Dr. Yane-Shih (Eric) Wang, Assistant Research Fellow, Institute of Biological Chemistry, Academia Sinica, Taiwan

"Designing Pyrrolysyl-tRNA Synthetase for Heterochiral Protein Synthesis and New PTM Enzyme Design"

Host: Dr. Patrick O'Donoghue

15 Sept 2023 (hybrid)

Dr. Alison Axtman, Structural Genomics Consortium, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC

"Understanding the Molecular Basis of Neurodegeneration"

Host: Dr. David Litchfield

19 Sept 2023 (hybrid)

Dr. Thekla Cordes, Biochemistry, Biotechnology and Bioinformatics Institute; Technical University of Braunschweig; Braunschweig, Germany

"Signaling Roles of Mitochondrial Metabolites Influencing Inflammation and Cancer"

Host: Dr. Ilka Heinemann

2024

4 Mar 2024 (hybrid)

Dr. Karen Mossman, Vice-President, Research; Professor, Department of Medicine, McMaster University, Hamilton, ON

Differential innate antiviral signaling in human and bat cells

Host: Dr. David Litchfield

8 Mar 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Claudia Kleinman, Dept. of Human Genetics, McGill University, Montreal, QC

Robust Cell Fate Specification: An Oncogenic Achilles Heel

Host: Dr. Greg Gloor

22 Mar 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Brenda Andrews, Dept. of Medical Genetics, University of Toronto, Toronto, ON

Mapping Genetic Networks in Yeast and Human Cells

Host: Dr. Greg Gloor

5 Apr 2024 (hybrid)

Dr. Maud L. Menten Memorial Spring Symposium

10 am

Dr. Scott Dos Santos, Post-doctoral Scholar, Dept. of Biochemistry, Western University

Identifying differential pathways and functional subgroups in bacterial vaginosis using meta transcriptomics

10:30 am

Dr. Tallulah Andrews, Assistant Professor, Dept. of Biochemistry, Western University

Dangers of imputation of single-cell RNAseq data

11 am

Dr. Vera Pawlowsky-Glahn, Emeritus Professor; Dept. of Computer Sciences, Applied Mathematics, and Statistics; University of Girona, Spain

Compositional data analysis “A different way to look at your data”

Host: Dr. Greg Gloor

9 Apr 2024 (hybrid)

Dr. Sriram Subramaniam, Dept. of Biochemistry & Molecular Biology and Dept. of Urology, University of British Columbia, Vancouver, BC

Cryo-EM, AI and Accelerated Drug Design: Emerging Intersections

Hosts: Drs. Murray Junop and Mike Strong

11 Apr 2024 (hybrid)

Dr. Michael Moran, Canada Research Chair, Dept. of Molecular Genetics, University of Toronto, Toronto, ON

Multi-Omic Signatures Link Metabolism and Survival in Aggressive Cancers

Host: Dr. Shawn Li

19 Apr 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Wei Yang, NIH Distinguished Investigator, The National Institutes of Health (NIH), Bethesda, MD
From RAG to NHEJ: splicing together our adaptive immune response

Host: Dr. Murray Junop

3 May 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Fred Possmayer, Professor Emeritus, Dept. of Biochemistry, Western University
Pulmonary Surfactant: A Mighty Thin Film

Host: Dr. Greg Gloor

10 May 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Daniela Rotin, Hospital for Sick Children; Biochemistry Dept., University of Toronto; Toronto, ON
Function and regulation of the ubiquitin ligases Nedd4 and Nedd4-like

Host Dr. Caroline Schild-Poulter

17 May 2024 (hybrid)

Dr. John D. Fisk, Dept. of Chemistry, University of Colorado, Boulder, CO

Understanding Translational Fidelity Through Orthogonal Pair Directed Partial Genetic Code Reassignments

Host: Dr. Pat O'Donoghue

4 June 2024 (hybrid)

Dr. Nicolas Bisson, CRC in Cancer Proteomics, Faculty of Medicine, Laval University, Quebec City, QC
Multifaceted roles of SRC-Homology (SH)2 and SH3 modular protein binding domains in phosphotyrosine signalling

Host: Dr. Shawn Li

4 Sept 2024 (hybrid)

Dr. Kyle J. Lauersen, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia
Synthetic biology and metabolic engineering applications in microalgae - sustainable biotechnology at KAUST

Host: Dr. Bogumil Karas

20 Sept 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Jeff Whitsett, Co-Director, Perinatal Institute; Chief, Section of Neonatology; Perinatal and Pulmonary Biology, Cincinnati Children's Hospital, Cincinnati, OH

Transcriptional and Epigenetic Control of Lung Formation and Differentiation

Host: Dr. Fred Possmayer

27 Sept 2024 (hybrid)

Dr. James Duncan, Fox Chase Cancer Center, Philadelphia, PA

Interrogating the cancer kinome using proteomics

Host: Dr. David Litchfield

4 Oct 2024 (hybrid)

Dr. Maud L. Menten Memorial Lecture

Dr. Jane Jackman, Dept. of Chemistry and Biochemistry, The Ohio State University, Columbus, OH

Putting it in reverse: Functions and Applications of 3'-5' Polymerases in Biology

Host: Dr. Ilka Heinemann

18 Oct 2024

Dr. Basil Hubbard, Dept. of Pharmacology and Toxicology, Temerty Faculty of Medicine, University of Toronto, Toronto, ON

Expanding CRISPR DNA and RNA editing using chemically modified guide RNAs and small molecules

Host: Dr. David Edgell

15 Nov 2024

Dr. Alba Guarné, Dept. of Biochemistry, McGill University, Montreal, QC

Tn7 transposable elements: you name it, they target it

Host: Dr. Murray Junop

4 Dec 2024

Dr. John Rhode, Dept. of Microbiology and Immunology, Dalhousie University, Halifax, NS

IpaH-class effectors: lessons on virulence, and an Achilles-heel towards novel therapeutics

Host: Dr. David Edgell