

## 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 Sreaton**, 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 Gebregiworgis, 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