Biochemistry Seminars

2025

14 Feb 2025
Daniel Nucifora, graduate student, Dept. of Biochemistry, Western University, London, ON
Restoring Recombination in Acholeplasma laidlawii to Create New Strains for Synthetic Biology
Host: Dr. Bogumil Karas

21 Feb 2025
Dr. Sara Andres, Dept. of Biochemistry and Biomedical Sciences, McMaster University, Hamilton, ON
Uncovering fundamental mechanisms of genome maintenance in bacteria
Host: Dr. Murray Junop

28 Feb 2025
Dr. Thomas DeFalco, Dept. of Biology, Western University, London, ON
Decoding plant receptor kinase signalling: immunity and beyond
Host: Dr. David Litchfield

7 Mar 2025
Dr. Ken Carroll Lectureship in Metabolomics
Dr. Raymond Thomas, Dept. of Biology, Western University, London, ON
Lipidomics: a valuable tool in the validation of nootropic foods for the prevention and treatment of neurodegenerative diseases
Host: Dr. Teklab Gebregiworgis

21 Mar 2025
Dr. Ken Carroll Lectureship in Metabolomics
Dr. Joshua Pemberton, Dept. of Biology, Western University, London, ON
Understanding the integrated regulation of cellular lipid metabolism and organelle dynamics
Hosts: Drs. Gebregiworgis and Litchfield

25 Apr 2025
Gary Foo, graduate student, Dept. of Biochemistry, University of Western Ontario, London, ON
Sequence entanglements promote pseudo-essentiality in genetic safeguards
Host: Dr. David Edgell

2 May 2025
Dr. Ken Carroll Lectureship in Metabolomics
Dr. Brad Urquhart, Dept. of Physiology and Pharmacology, Western University, London, ON
Metabolomic Investigation of Acute Kidney Injury and Chronic Kidney Disease
Host: Dr. Brian Shilton

6 June 2025

Dr. Maud L. Menten Memorial Lecture

Dr. Lewis Kay, Dept. of Biochemistry, University of Toronto, Toronto, ON

Exploring biophysics in ways that only NMR can

Host: Dr. James Choy

13 June 2025

Dr. Ken Carroll Lecture Series in Metabolomics

Dr. Philip Britz- McKibbin, Dept. of Chemistry and Chemical Biology, McMaster University, Hamilton, ON

New Advances in Nutritional Metabolomics for Global Health: Are You Getting Enough?

Host: Dr. Teklab Gebregiworgis

20 June 2025

Dr. Jenny Ho, Dept. of Hematology, Western University, London, ON

Leukemic Transformation in Myeloproliferative Neoplasms: Are Somatic Mutations Enough? am

Host: Dr. Tallulah Andrews

25 July 2025

Dr. Maud L. Menten Memorial Lecture

Dr. Jesús Pérez Gil, Dept. of Biochemistry and Molecular Biology, University of Madrid, Madrid, Spain

Protein-promoted Organization of Membrane Networks at the Respiratory Surface: Ruling Pulmonary Surfactant Molecular Mechanisms

Host: Dr. Fred Possmayer

22 Aug 2025

Dr. Maud L. Menten Memorial Lecture

Dr. Saima Hassan, Dept. of Surgery, University of Montreal, Montreal, QC

Translational Advances in Precision Oncology for Breast Cancer Detection and Treatment

Host: Dr. Ilka Heinemann

3 Oct 2025

Dr. Daniel Hardy, Dept. of Ob/Gyn and Physiology & Pharmacology, Western University, London, ON

The Impact of Gestational Cannabinoid Exposure on Cardiometabolic Outcomes: Elucidating the Underlying Mechanisms

Hosts: Drs. Possmayer and Shilton

24 Oct 2025

Dr. Kobi Rosenblum, Dept. of Neuroscience, University of Haifa, Israel

Targeting QR2 pathway, a Removable Memory Constraint, to Treat Brain Diseases

Host: Dr. Brian Shilton

21 Nov 2025
Dr. Simon Sharpe, Dept. of Biochemistry, University of Toronto, Toronto, ON
Atomistic details of elastomeric proteins - using NMR to study large disordered assemblies
Host: Dr. Brian Shilton

12 Dec 2025
Dr. Oscar Vargas-Rodriguez, Dept. of Molecular Biology and Biophysics, UConn School of Medicine
Bacterial strategies to safeguard protein synthesis during stress and host interactions
Host: Dr. Pat O'Donoghue

2026

23 Jan 2026
Dr. John Whitney, CRC in Molecular Microbiology, Dept. of Biochemistry & Biomedical Sciences, McMaster University, Hamilton, ON
Molecular weapons of interbacterial conflict
Host: Dr. Murray Junop

6 Feb 2026
Dr. Maud L. Menten Memorial Lecture
Dr. Ruijun Tian, Dept. of Chemistry, Southern University of Science and Technology, Shenzhen, Guangdong, China
Clinical Functional Proteomics Applied to Pancreatic Cancer
Host: Dr. Shawn Li

27 Mar 2026
Dr. Ken Carroll Lecture Series in Metabolomics
Dr. Robert Hegele, Distinguished University Professor of Medicine and Biochemistry, Western University, London, ON
Nucleic acid-based treatments for dyslipidemia
Hosts: Drs. Shilton and Possmayer

10 Apr 2026
Dr. Michael Hallett, Dept. of Biochemistry, Western University, London, ON
A demonstration of Agentic AI in biochemistry: Finding blood brain barrier-permeable molecules that target Pin1
Host: Dr. Brian Shilton

24 Apr 2026
Dr. Ken Carroll Lecture Series in Metabolomics
Dr. Timothy Regnault, Depts. of Obstetrics & Gynaecology; Physiology & Pharmacology, University of

Western Ontario, London, ON

Metabolic Disruption in the Stressed Placenta: Dissecting Common Pregnancy Exposures with ^{1}H NMR and Mass Spectrometry

Host: Dr. Gebregiworgis

29 July 2026

Dr. Jonathan Weitzman, Epigenetics and Cell Fate Unit, Université Paris Cité, Paris, France

Hijacking the Host: How Theileria Parasites Induce Cancer-Like Transformation

Host: Dr. Pingzhao Hu

9 Oct 2026

Dr. Maud L. Menten Memorial Lecture

Dr. Howard Salis, Laboratory of Genetic Design, Chemical & Environmental Engineering, University of California Riverside, Riverside, CA

Massively Parallel Synthetic Biology to Build a Predictive Discipline: Lessons from engineering cells to detect TNT and other chemicals

Host: Dr. Bogumil Karas

16 Oct 2026

Dr. Geoff Wild, Dept. of Mathematics, Western University, London, ON

Simple Virulence Evolution for a Complicated World

Host: Dr. David Litchfield

30 Oct 2026

Dr. Qiang Yu, Senior Group Leader, Precision Cancer Medicine, A*STAR Genome Institute of Singapore

Reprogramming T Cell Differentiation to Prevent Post-Surgical Recurrence in TNBC: Building Durable Immunological Memory Against Minimal Residual Disease

Host: Dr. Shawn Li