

## 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?**

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