

DR. MAUD L. MENTEN
MEMORIAL LECTURE SERIES AND SYMPOSIA
(2007-PRESENT)



2023

15 Feb 2023 (hybrid)

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. 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

2022

No Menten Lectures held.

2021

29 Jan 2021 (virtual)

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

Friday, 14 May 2021 (virtual) - **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

2020

Friday, 31 Jan 2020

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

Seminars for March-Aug cancelled because of COVID-19 pandemic

6 Nov 2020 (virtual)

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. 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) - **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. 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

2019

Friday, 1 Mar 2019

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

Friday, 15 Mar 2019

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

Friday, 26 Apr 2019

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

Friday, 3 May 2019 - 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

Monday, 27 May 2019

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

Thursday, 30 May 2019

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

Tuesday, 23 July 2019

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

Thursday, 12 Sep 2019 - 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

Friday, 18 Oct 2019

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

Friday, 1 Nov 2019

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

2018

Friday, 16 Feb 2018

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

Friday, 13 Apr 2018

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

Friday, 25 May 2018 – 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

Friday, 21 Sep 2018

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

Friday, 5 Oct 2018

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

Friday, 12 Oct 2018

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

Tuesday, 30 Oct 2018

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

Friday, 9 Nov 2018 – 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

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

2017

Monday, 13 Feb 2017

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

Friday, 24 Mar 2017

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

Friday, 21 Apr 2017

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

Friday, 19 May 2017

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

Friday, 2 June 2017 – 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

Friday, 29 Sept 2017

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

Thursday, 16 Nov 2017 - FALL SYMPOSIUM

9:00 am

Dr. Chris Brandl, Department of Biochemistry, Western University

"Evolving mistranslating tRNAs through a phenotypically ambivalent intermediate"

9:30 am

Dr. Ilka Heinemann, Department of Biochemistry, Western University

"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

Friday, 24 Nov 2017

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

Friday, 1 Dec 2017

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

Friday, 15 Dec 2017

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

2016

Friday, 5 Feb 2016

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, 4 Mar 2016

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

"Systematic phenotyping of Mendelian disease variants"

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

Friday, 8 Apr 2016

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. Jim R. Woodgett, Director of Research, The Lunenfeld-Tanenbaum Research Institute, Toronto
“Reduction to practice: anecdotes of cell signaling robustness”

Host: Dr. Shawn Li

Thursday, 19 May 2016 – 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

Thursday, 29 Sept 2016

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, 4 Nov 2016 - 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

2015

Friday, 30 Jan 2015

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

"Low complexity harboring proteins and protein methylation in cancer"

Host: Dr. Shawn Li

Friday, 27 Mar 2015

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, 22 May 2015 – SPRING SYMPOSIUM

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

Schedule:

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

Friday, 19 June 2015

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"

Thursday, 8 Oct 2015

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, 6 Nov 2015

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

2014

Friday, 31 Jan 2014

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. Senthil Muthuswamy, OCI and Dept. of Medical Biophysics, University of Toronto
"Cell polarity and initiation and progression of cancer"

Host: Dr. Shawn Li

Friday, 28 Mar 2014

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

Friday, 25 Apr 2014

Dr. Charlie Boone, University of Toronto, Donnelly Centre
"Genetic Landscape of a Cell"

Host: Dr. David Litchfield

Friday, 9 May 2014

Dr. John Moran, Dept. of Human Genetics, University of Michigan
"Studies of a Human Transposable Element"

Host: Dr. Fred Dick

Friday, 30 May 2014

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

Friday, 10 Oct 2014 – FALL SYMPOSIUM

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

Schedule:

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

9:00 am - Dr. Joe Mymryk, Department of Microbiology & Immunology

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

9:45 am - NEW FACULTY SEMINAR SERIES SPEAKER - Dr. Jamie Kramer, Department of Physiology & Pharmacology

"Epigenetics in Intellectual Disability"

10:30 am - Break

11:00 am - Keynote Speaker: Dr. Yi Zhang

Friday, 21 Nov 2014

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. 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

2013

Friday, 11 January, 2013

Dr. Gerry Wright, Dept. of Biochemistry and Biomedical Sciences, McMaster University

"Resistance guided antibiotic discovery"

Host: Dr. Gilles Lajoie

Friday, 12 April, 2013

Dr. John Vederas, Dept. of Chemistry, University of Alberta

"Assembly of Bioactive Metabolites by Fungal Polyketide Synthases (PKS)"

Host: Dr. Gilles Lajoie

Friday, 26 April, 2013

Dr. Rick Bushman, Dept. of Microbiology, University of Pennsylvania

"HIV Pathogenesis and the human microbiome in health and disease"

Host: Dr. David Haniford

Friday, 10 May, 2013

Dr. Philippe Gros, Dept. of Biochemistry, McGill University, Montreal

"Genetic Control of Susceptibility to Infections and Inflammation: IRF8 and Beyond"

Host: Dr. Nathalie Berube

Friday, 31 May, 2013 - SPRING SYMPOSIUM

Dr. Kym Boycott, Medical Geneticist, Regional Genetics Program

Investigator, CHEO Research Institute

"Canadian geneticists collaborate to help children with rare diseases"

Hosts: Dr. Victoria Siu, Dr. Tony Rupar

Schedule

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

9:00 am - Dr. Michael J. Strong, Dean, Schulich School of Medicine & Dentistry

9:30 am - Dr. Rob Hegele, Robarts Research Institute, Western University "Rare and common contributions to complex traits"

10:00 am - Dr. Victoria Siu, Department of Paediatrics, Western University "But what does it really mean? What is a mutation in the era of genomic medicine?"

10:30 am - Break

10:45 am - Dr. Kym Boycott

2012

Thursday March 8, 2012

Dr. Rosemary Redfield, Life Sciences Institute, Bacterial Adaptation and Response Networks, University of British Columbia

'#arseniclife and open science'

Host: Dr. David Edgell

Friday, March 9, 2012

Dr. Rosemary Redfield, Life Sciences Institute, Bacterial Adaptation and Response Networks, University of British Columbia

"Do Bacteria Have Sex"

Host: Dr. David Edgell

Friday, April 13, 2012

Dr. Susan Gottesman, National Cancer Institute

"Regulating with Small RNAs: The Hidden Circuitry of Bacteria"

Host: Dr. David Haniford

Friday, April 20, 2012

Dr. Jack Greenblatt, Terrence Donnelly Centre for Cellular & Biomolecular Research, University of Toronto

"Protein interaction networks in bacteria, yeast, and man: implications for membrane biology and transcriptional regulation"

Host: Dr. Megan Davey

Friday, April 27, 2012

Dr. Jean Vance, University of Alberta

"Cholesterol Transport in the Brain and Niemann-Pick C Disease"

Host: Dr. Fred Possmayer

Friday, May 4, 2012

Dr. Ben Blencowe, The Donnelly Centre, University of Toronto

"Alternative Splicing: Decoding an Expansive Regulatory Layer"

Host: Dr. Chris Brandl

Friday, May 18, 2012

Dr. Brian Sykes, Department of Biochemistry, University of Alberta

"Structural Basis of Cardiac Function: Ischemia and Drug Design"

Host: Dr. Gary Shaw

Friday, May 25, 2012 - SPRING SYMPOSIUM

Dr. Sergio Grinstein, Sick Kids Hospital, Department of Biochemistry University of Toronto

"Imaging phagocytosis: receptors, signal transduction and the cytoskeleton"

Host: Dr. David Litchfield

Schedule:

Introductory Remarks

9:00 am Dr. Geoffrey Pickering, Dept. of Biochemistry, Western

9:30 am Dr. Bryan Heit, Dept. of Microbiology & Immunology, Western

10:00 am Dr. Shawn Li, Dept. of Biochemistry, Western

10:30 am Coffee Break

11:00 am Dr. Sergio Grinstein

Friday, Aug 24, 2012 - SUMMER SYMPOSIUM

Dr. Jay Keasling, Department of Chemical and Biomolecular Engineering, University of California, Berkeley
"Metabolic Engineering of Hydrocarbon Production"

Host: Dr. Chris Brandl

Schedule:

Introductory Remarks

9:20 am Dr. Dave Edgell, Department of Biochemistry, Western "Designing nucleases for targeted integration of DNA"

9:50 am Dr. Franco Berutti, Chemical and Biochemical Engineering, Western "Pyrolytic Conversion of Biomass Residues into Bio-Oil and Bio-Char: Turning Waste into Black Gold"

10:20 am Break

10:30 am Keynote Speaker: Dr. Jay Keasling

Friday, 2 November, 2012

Dr. Douglas Lowy, National Cancer Institute, Bethesda, MD

"Cooperating pro-oncogenic pathways can drive concerted activation of Cdc42 and Rho"

Host: Dr. Shawn Li

Friday, 23 November, 2012

Dr. Liliana Attisano, Dept. of Biochemistry, University of Toronto

"Multidimensional highthroughput screening reveals crosstalk between the Wnt and hippo pathway"

Host: Dr. Susan Meakin

2011

Thursday, March 03, 2011

Dr. Nahum Sonenberg, McGill University, Dept. of Biochemistry and Goodman Cancer Centre
"Mechanism of action of microRNAs"

Host: Dr. David Litchfield

Friday, March 25, 2011

Dr. Jacques Cote, Laval University Cancer Research Center

"MYST-family acetyltransferase complexes in genome expression and maintenance"

Host: Dr. Chris Brandl

Friday, May 06, 2011

Dr. Britt-Marie Sjöberg, University of Stockholms, Dept. of Molecular Biology and Functional Genomics
"Biosynthesis of DNA building blocks - essential and redundant"

Host: Dr. David Edgell

Friday, May 13, 2011 – SPRING SYMPOSIUM

Dr. Jean Wang, UC San Diego, Division of Biological Sciences

"Regulation of Cell Death Decision"

Host: Dr. Fred Dick

Friday, December 2, 2011

Dr. Chris Adami, Professor of Applied Life Sciences, Keck Graduate Institute, Claremont, CA
Visiting Professor in Microbiology and Molecular Genetics, Michigan State University

"Rewiring Gene Interaction Networks in Yeast"

Host: Dr. Peter Rogan

Friday, December 9, 2011

Dr. Thomas Surrey, London Cancer Institute U.K.

"Microtubule end binding proteins: from structure to network functioning"

Host: Dr. Lars Konermann

2010

Friday, January 29, 2010

Dr. Christopher D. Lima, Memorial Sloan-Kettering Institute, Structural Biology, New York

"Structural and mechanistic insights to post-translational modification by SUMO, a ubiquitin-like modifier. "

Host: Dr. Gary Shaw

Friday, February 12, 2010 – WINTER SYMPOSIUM

Dr. David Allis, Rockefeller University in New York

"Beyond the Double Helix: Reading and Writing the Histone Code"

Host: Dr. Megan Davey

Friday, April 30, 2010

Dr. Trevor Archer, National Institute of Environmental Health Sciences, Chromatin & Epigenetics & Transcription

"Using Chromatin Remodeling Proteins to Regulate Gene Transcription"

Host: Dr. David Rodenhiser

Friday, May 14, 2010

Dr. Michael Resnick, National Institutes of Health, Chromosome Stability Group Repair, Replication & Checkpoint Function

"The Expanding Universe of p53 Targets"

Host: Dr. Bonnie Deroo

Friday, June 4, 2010

Dr. Stephen Michnick, Canada Research Chair in Integrative Genomics Département de Biochimie Université de Montreal

"Maud Menten's perfect solution to a cell fate decision "

Host: Dr. David Litchfield

Friday, June 11, 2010

Dr. Tom Ellenberger, Department of Biochemistry and Molecular Biophysics, Washington University in St. Louis

"An Allosteric Mechanism for Regulating DNA Recombination"

Host: Dr. Chris Brandl

Friday, September 24, 2010

Dr. Alexandra Newton, University of California at San Diego

"Spatiotemporal dynamics of lipid second messenger signaling"

Host: Dr. David Litchfield

Dr. Carol Robinson, University of Oxford, Department of Chemistry

Thursday, November 11, 2010

"Dehydrated but Unharmed? Mass Spectrometry of Protein Complexes"

AND

Friday, November 12, 2010

"The Mass Spectrometry of Membrane Protein Complexes - At Last!"

Host: Dr. Lars Konermann

Friday, November 19, 2010 – FALL SYMPOSIUM

Dr. John Kuriyan, University of California, Berkeley

"Regulatory Control of Catalytic Activity in Protein Kinases"

Introductory Remarks

9:00 am Dr. Brian Shilton, Department of Biochemistry, Western

9:30 am Dr. Eric Ball, Department of Biochemistry, Western

10:00 am Dr. James Choy, Department of Biochemistry, Western

10:30 am Coffee Break

10:45 am Dr. John Kuriyan

Hosts: Dr. Megan Davey and Dr. Hong Ling

Friday, November 26, 2010

Dr. Tom Hudson, OICR, Dept. of Medical Genetics and Microbiology and Dept. of Medical Biophysics, University of Toronto

"Personalized Medicine and Cancer"

Host: Dr. David Litchfield

2009

Friday, February 13, 2009

Dr. Arnie Berk, UCLA ACCESS, MBI IDP, Gene Regulation, LA, California

"Adenovirus small e1a drives cells through the cell cycle and actively represses antiviral responses and differentiation by relocalizing RB-family proteins and the p300/CBP HATs dynamically across the genome"

Host: Dr. Joe Mymryk

Friday, May 1, 2009

Dr. Michel Desjardins, University of Montreal

"Understanding innate and adaptive immunity: from proteomics to Systems Biology"

Host: Dr. Gilles Lajoie

Friday, June 5, 2009

Dr. Barry Stoddard, Fred Hutchinson Cancer Research Center, Seattle, WA

"The structure, evolution and engineering of homing endonucleases: reagents for gene targeting"

Host: Dr. David Edgell

Friday, October 2, 2009

Dr. Jay Heinecke, University of Washington School of Medicine

"Defining the proteomes of macrophages and dendritic cells: Implications for atherogenesis"

Host: Erin Mulvihill & Lazar Bojic, Huff Lab

Friday, October 30, 2009 – FALL SYMPOSIUM

Dr. Brian T. Chait, Camille and Henry Dreyfus Professor, Laboratory of Mass Spectrometry and Gaseous Ion Chemistry, Rockefeller University

"Approaches to the Study of Dynamic Phenomena in the Nucleus"

Host: Dr. Derek McLachlin

Wednesday, November 11, 2009

Dr. Jasper Rine, Department of Molecular & Cell Biology, University of California

"The Formation and Inheritance of Epigenetic States of Gene Expression"

Host: Dr. Megan Davey

Friday, November 13, 2009

Dr. Gordon C. Shore, Department of Biochemistry, McGill University

"Bcl-2 family proteins and cancer"

Host: Dr. Caroline Schild-Poulter

Friday, November 27, 2009

Dr. Steve Scherer, Sick Kids Hospital

"Discovery of Copy Number Variation in the Human Genome and its Role in Disease"

Host: Dr. Rob Hegele

2008

Friday, February 29, 2008

Dr. Peter E. Wright, Department of Molecular Biology, The Scripps Research Institute

"Exploring the energy landscape: Disorder, dynamics, and protein function"

Host: Dr. James Choy

Friday, March 14, 2008

Dr. Robert Waterland, Baylor College of Medicine, Assistant Professor of Pediatrics

"Early nutrition and your epigenomes"

Hosts: Drs. Megan Davey & Richard Rozmahel

Friday, March 28, 2008

Dr. C. -Ting Wu, Department of Genetics Harvard Medical School

"Thinking about homology: transvection and ultraconserved elements"

Host: Dr. Megan Davey

Friday, April 11, 2008 – SPRING SYMPOSIUM

Dr. Nicholas Tonks, Cold Spring Harbor Laboratory, Long Island, New York, USA

"Signal transduction from a protein tyrosine phosphatase perspective"

Schedule:

9:00 am - Dr. David Litchfield, Departments of Biochemistry and Oncology, Chair, Department of Biochemistry
"Deciphering cellular decisions of life and death: convergence of protein kinases and caspases."

9:30 am - Dr. Shawn Li, Departments of Biochemistry, Oncology and Paediatrics, Children's Health Research Network and Lawson Health Research Network

"Mapping Phosphotyrosine signaling networks using peptide and protein arrays."

10:00 am - Dr. Fred Dick, Departments of Biochemistry, Oncology and Paediatrics, The University of Western Ontario, Children's Health Research Network London Regional Cancer Program

"A unique connection between the TGF-beta and Retinoblastoma pathways."

10:30 am – Coffee break

10:45 am - KEYNOTE SPEAKER Dr. Nick Tonks, Cold Spring Harbor Laboratory

Host: Dr. David Litchfield

Friday, April 18, 2008

Dr. Leonard Foster, Department of Biochemistry & Molecular Biology, University of British Columbia

"Using quantitative proteomics to understand host-pathogen interactions."

Host: Dr. Gilles Lajoie

Friday, May 16, 2008

Dr. Nancy Craig, H.H.M.I., Molecular Biology and Genetics at the Johns Hopkins University School of Medicine

"Tales of Transposons"

Host: Dr. Megan Davey

Friday, September 19, 2008

Dr. Irene Weber, Department of Chemistry, Georgia State University

" Crystal Structures of Proteases Guide Design of Drugs for Resistant HIV and Control of Apoptosis"

Host: Dr. Peter Rogan

Friday, October 3, 2008 – FALL SYMPOSIUM

Dr. Fred Winston, Department of Genetics, Harvard Medical School

"Factors that control transcription and chromatin structure in yeast "

Host: Dr. Chris Brandl

Friday, October 17, 2008

Dr. Phil Hieter, Department of Medical Genetics, University of British Columbia

"Chromosome Instability (CIN) Genes in Yeast and Cancer"

Host: Drs. Megan Davey & Chris Brandl

Friday, November 7, 2008

Dr. Brenda Schulman, St. Jude Faculty, Howard Hughes Medical Institute, Co-Director, Molecular Oncology Program

"Dynamic Mechanisms of Ubiquitin Conjugation"

Host: Dr. Gary Shaw

Friday, November 21, 2008

Dr. Jim R. Davie, Director, Manitoba Institute of Cell Biology

"Nucleosomal response, immediate early gene expression and neoplastic transformation"

Host: Dr. David Litchfield

Friday, December 12, 2008

Dr. David Westaway, Centre for Prions and Protein Folding Diseases, University of Alberta

"Molecular biology of mammalian prion proteins"

Host: Dr. Richard Rozmahel

2007

Friday, September 21, 2007 – FALL SYMPOSIUM

Dr. Janet Rossant, Hospital for Sick Children

"Stem cells and developmental pathways"

Schedule:

1:00 pm Introductory Remarks by Dean Carol Herbert, Schulich School of Medicine & Dentistry

1:30 pm - Dr. Janet Rossant

2:30 pm - Coffee break

3:00 pm - Dr. Mellissa Mann "Extra! Extra! Extraembryonic! Epigenetic regulation in embryonic versus extraembryonic cells" Children's Health Research Institute, Departments of Obstetrics & Gynecology, and Biochemistry, University of Western Ontario

3:30 pm - Dr. Susan Meakin "Tracking Cell Death Mechanisms in Neural Brain Tumors" Robarts Research Institute

4:00 pm - Dr. Bonnie Deroo “Estrogen Receptor Beta: An Ovarian Role for a Mysterious Receptor” Children's Health Research Institute, The University of Western Ontario, Department of Biochemistry
4:30 pm - Wine and Cheese Reception - Michael's Garden, Rm 3340 Somerville House
Host: Dr. Megan Davey