

# Biochemistry Seminars 2004

**Tuesday, August 31, 2004 @ 2:00 pm - MSB 341**

**Dr. Jacques Baudier**, Visiting Professor, INSERM E0104, Grenoble, France

**"Nuclear S100B protein and olidodendrocyte progenitor cells differentiation"**

Host: Dr. Gary Shaw

**Friday, Sept 17, 2004**

**Dr. Naihe Jing**, Assistant Director, Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, and a Visiting Professor at Toronto's Sunny Brook Hospital until October

**"FGF signaling and P19 cell neural differentiation"**

Host: Dr. Shawn Li

**Friday, Sept 24, 2004**

**Dr. Paola Marignani**, Assistant Professor, Dalhousie University

**"The multi-tasking tumour suppressor kinase LKB1"**

Host: Dr. David Litchfield

**Monday, September 27, 2004 @ 2:00 pm - MSB 148**

**Dr. Aled Edwards**, Senior Scientist, Division of Molecular and Structural Biology, Toronto General Research Institute, Toronto General Hospital

**"Large scale protein science"**

Host: Steven Beasley

**Friday, October 1, 2004**

**Dr. John Lytton**, Professor & Graduate Program Coordinator, Department of Biochemistry & Molecular Biology, University of Calgary Health Sciences Centre

**"K-dependent Na/Ca exchangers in the brain"**

Host: Dr. Chris Brandl

**Friday, October 8, 2004**

**Dr. Grant Brown**, Associate Professor, Department of Biochemistry University of Toronto

**"Identifying Suppressors of Genome Instability using Functional Genomics in Yeast"**

Host: Dr. Megan Davey

**Friday, November 12, 2004**

**Dr. Eric Brown**, Canada Research Chair in Microbial Biochemistry at McMaster University and Director of the McMaster High Throughput Screening Laboratory

**"Wall teichoic acids in Gram-positive bacteria: polymers that matter"**

Host: Dr. David Litchfield

# Biochemistry Seminars 2004

**Friday, November 19, 2004**

**Dr. Rachel Klevit**, Professor of Biochemistry and director of the Interdisciplinary Graduate Program in Biomolecular Structure and Design, University of Washington, Seattle, Washington

**"Assembly, Structure, & Function of the BRCA1 Ubiquitin Ligase Complex"**

Host: Dr. Gary Shaw

**Friday, December 10, 2004**

Proteomics Meeting - London

**Dr. Lajoie**

# Biochemistry Seminars 2005

**Friday, December 9, 2005**

**Dr. Lawrence McIntosh**, Department of Biochemistry and Chemistry, University of British Columbia

**"Regulation of Ets Transcription Factors by Auto-inhibition, Phosphorylation, and Sumoylation"**

Host: Steven Beasley

**Friday, December 2, 2005**

**Dr. Charles Deber**, Toronto Sick Kids Hospital

**"Folding and Misfolding of Proteins in Membranes"**

Host: Dr. Shawn Li

**Friday, November 18, 2005**

**Dr. John Brumell**, University of Toronto

**"The fate of Salmonella in cells of its host"**

Host: Dr. Fred Dick

**Friday, November 11, 2005**

**Dr. Pat Ridgway**

**"The Role of Heterochromatin in Regulating Cellular Proliferation and Development"**

Host: Dr. Chris Brandl

**Friday, November 4, 2005**

**Dr. Pei Zhou**, Duke University

**"From Novel Antibiotics to Fast NMR"**

Host: Dr. Shawn Li

**Friday, October 28, 2005**

**Dr. Brenda Andrews**, Department of Biochemistry, University of Toronto

**"Mapping pathways and phenotypes using yeast functional genomics"**

Host: Dr. Megan Davey

**Friday, September 30, 2005**

**Dr. Thomas Eickbush**, Department of Biology, University of Rochester, New York

**"Using DNA to prime reverse transcription: a common approach for inserting junk into genomes"**

Host: Dr. David Edgell

**Tuesday, June 7, 2005 @ 4:00 pm. in DSB 2016**

**Dr. Bernhard Lüscher**, Abt. Biochemie und Molekularbiologie, Institut für Biochemie, Aachen, Germany

**"Control of proliferation and apoptosis by the Myc/Max/Mad network"**

Host: Dr. David Litchfield

# Biochemistry Seminars 2005

**Friday, May 27, 2005**

**Dr. Greg Miller** , NIDDK, Structural Biology & Cell Signaling, Bethesda, MD

**"Specificity and Mechanism in Inositol Signaling: Structures from Two Families of Inositol Polyphosphate Kinases"**

Host: Dr. Eric Ball

**Friday, May 13, 2005**

**Dr. Frank McCormack** , Division of Pulmonary and Critical Care, University of Cincinnati

**"Direct antimicrobial properties of the surfactant proteins"**

Host: Dr. Fred Possmayer

**Friday, May 6, 2005**

**Dr. David Percival**, Merck Frosst

**"Applications of Activity-Based Probes to Drug Discovery. Cathepsin K Inhibitors for the Treatment of Osteoporosis"**

Host: Brian Shilton

**Friday, April 22, 2005**

**Dr. Alan Davidson** , University of Toronto

**"The importance of protein-protein interaction affinity in controlling biological responses: quantitative in vitro and in vivo studies"**

Host: Steven Beasley

**Friday, April 15, 2005**

**Dr. Christine Bear**, Programme in Structural Biology and Biochemistry, Research Institute, Hospital for Sick Children, Toronto

**"Reconstructing CFTR"**

Host: Dr. Richard Rozmahel

**Friday, April 8, 2005**

**Dr. Jeff Whitsett**, Director of the Division of Neonatology and Pulmonary Biology, Department of Pediatrics, University of Cincinnati "

**Master Regulators of Perinatal Respiratory Adaptation: Lipids and Proteins"**

Host: Dr. Fred Possmayer

**Friday, April 1, 2005 - Cancelled**

**Dr. John Brumell**, Infection, Immunity, Injury and Repair Program, The Hospital for Sick Children

**"The fate of Salmonella typhimurium in cells of its host"**

Host: Dr. Fred Dick

# Biochemistry Seminars 2005

**Friday, March 25, 2005 - Cancelled**

**Dr. Brenda Andrews**

Host: Dr. Megan Davey

**Friday, March 11, 2005**

**Dr. David Clarke**, Professor, Canada Research Chair in Membrane Biology, University of Toronto

**"Correction of Folding Defects in the Multidrug Resistance P-glycoprotein Using Chemical Chaperones: Insights from Structure-Function Studies"**

Host: Dr. Stan Dunn

**Friday, March 4, 2005**

**Dr. Elizabeth Meiering**

**"Protein Folding and Misfolding: Implications for Biology, Industry and Disease"**

Host: Steven Beasley

**Friday, February 25, 2005**

**Dr. Joe Martens**, Department of Genetics, Harvard Medical School

**"Repression by intergenic transcription; a new mode of gene regulation"**

Host: Dr. Chris Brandl

**Friday, February 18, 2005**

**Dr. David Rose**, Professor, Department of Medical Biophysics, University of Toronto

**"Structure, Catalytic Mechanism and Inhibition of Golgi Alpha-Mannosidase II"**

Host: Dr. Brian Shilton

**Friday, February 11, 2005**

**Dr. Erik Zuiderweg**, Biophysics Research Institute, University of Michigan

**"The allostery of Hsp70 Chaperones studied by NMR"**

Host: Dr. Matt Revington

**Friday, January 28, 2005**

**Dr. Melissa Mann**

**"Mechanisms regulating genomic imprinting during mouse development"**

Host: Dr. David Rodenhiser

**Friday, January 21, 2005**

**Dr. Steve Robbins**, Associate Professor, AHFMR Senior Scholar/ Canada Research Chair in Cancer Biology, Departments of Oncology and Biochemistry and Molecular Biology, University of Calgary

Host: Dr. David Litchfield

# Biochemistry Seminars 2005

**Friday, January 14, 2005**

**Dr. Paul Berti**, Assistant Professor, Departments of Chemistry & Biochemistry & Antimicrobial Research Centre, McMaster University

**"More is Always Better: Measuring Many KIEs to Characterize Enzymatic Transition States"**

Host: Derek Wilson

# Biochemistry Seminars 2006

**Friday, January 6, 2006**

**Dr. Amy Davidson**, Department of Chemistry, Purdue University

**"Viewing Conformational Changes in an ABC Transporter by EPR Spectroscopy"**

Host: Dr. Brian Shilton

**Friday, January 13, 2006**

**Dr. Caroline Schild-Poulter**, Robarts Research Institute

**"Molecular mechanisms of the cellular response to DNA damage: Insights into a new pathway that modulates cell survival"**

Host: Dr. Chris Brandl

**ROSSITER LECTURE - Friday, January 20, 2006 @ 10:30 am. in Auditorium "A" LHSC-University Campus**

**Dr. Nicholas Dyson**, Massachusetts General Hospital Cancer Center and Harvard Medical School

**"Cancer and the Role of Retinoblastoma and E2F Proteins in Cell Proliferation"**

Host: Dr. Fred Dick

**Friday, January 27, 2006**

**Dr. Rod Merrill**, Department of Molecular and Cellular Biology, University of Guelph

**"Stealth and Mimicry by Deadly Bacterial Toxins "**

Host: Dr. Brian Shilton

**Friday, February 3, 2006**

**Dr. Stephan Wilkens**, Biochemistry and Molecular Biology, Upstate Medical University, New York

**"Structure of the Vacuolar ATPase Stalk Domain by Electron Microscopy"**

Host: Dr. Stan Dunn

**Friday, February 10, 2006**

**Dr. Steve Smith**, Department of Biochemistry, Queens University

**"Structural studies of ultra-high-affinity protein-protein interactions: Roles in bacterial enzyme complex assemblies "**

Host: Dr. Gary Shaw

**Friday, February 17, 2006**

**Dr. Norm Dovichi - 3M Lecturer**, Department of Chemistry, University of Washington

**"Single Cell Proteomics"**

Host: Dr. Ken Yeung

**Friday, February 24, 2006**

**Dr. Hue Sun Chan**, Department of Biochemistry, University of Toronto

**"Cooperativity Principles in Protein Folding: Matching Theory with Experiment"**

# Biochemistry Seminars 2006

Host: Dr. James Choy

**Friday, March 3, 2006**

**Dr. Alexey Bochkarev**, Department of Medical Genetics and Microbiology, University of Toronto

**"Single-stranded DNA mimicry in the p53 transactivation domain interaction with Replication protein A"**

Host: Dr. James Choy

**Friday, March 10, 2006**

**Todd Copeland & Szanne McNutt**, Industry Liaison Officers for Business Development, the University of Western Ontario & the Lawson Health Research Institute

**"Technology Transfer: Bridging the Gap from Lab to Market"**

Host: Dr. Brian Shilton

**Friday, March 24, 2006**

**Dr. Andre Bedard**, Department of Biology, University of McMaster

**"Molecular and genetic characterization of the Menin tumour suppressor"**

Host: Dr. David Litchfield

**Friday, March 31, 2006 - Cancelled**

**Dr. Rusung Tan**, Department of Pathology & Laboratory Medicine, University of British Columbia

**"Fatal Epstein-Barr virus infections due to XLP gene dysfunction"**

Host: Dr. Shawn Li

**Friday, April 7, 2006**

**Dr. Daniel Gewirth**, Department of Biochemistry, Duke University Medical Center

**"Structure and Regulation of Hsp90 Chaperones"**

Host: Dr. Brian Shilton

**Wednesday, April 12, 2006 @ 2:30 pm. in MSB 341**

**Dr. Albert M. Berghuis**, Department of Biochemistry, McGill University

**"Structural studies of fungal amino acid biosynthetic enzymes for antimycotic drug development"**

Host: Dr. Brian Shilton

**Friday, April 21, 2006**

**Dr. Peter Chidiac**, Department of Physiology and Pharmacology, Schulich School of Medicine & Dentistry, UWO

**"Regulators of Regulators of G Protein Signaling: Modulation of RGS4 Activity by 14-3-3 and GoLoco Proteins"**

Host: Dr. Brian Shilton



# Biochemistry Seminars 2006

**Friday, May 12, 2006 - Cancelled**

**Dr. Lewis Kay**, Department of Biochemistry, University of Toronto

Host: Dr. James Choy

**Friday, June 2, 2006**

**Dr. Ed Pryzdial**, Canadian Blood Services, University of British Columbia/Centre for Blood Research

**"Coagulation, Annexins and Herpes viruses"**

Host: Dr. David Haniford

**Friday, June 9, 2006**

Faculty Candidate for the Human Molecular Genetics Position

**Dr. Fred Berry**, Department of Ophthalmology, University of Alberta

**"Uncovering mechanism of Axenfeld-Rieger and Glaucoma pathogenesis through the functional analysis of the forkhead transcription factor FOXC1"**

Host: Dr. Chris Brandl

**Friday, June 23, 2006**

Faculty Candidate for the Human Molecular Genetics Position

**Dr. Geoff Clarke**, University of Toronto, Institute of Medical Sciences

**"Computational Analyses of Complex Disease: Neurodegeneration and Type 2 Diabetes"**

Host: Dr. Chris Brandl

**Thursday, June 29, 2006 @ 10:30 am. in MSB 341**

Faculty Candidate for the Human Molecular Genetics Position

**Dr. Michael Kluppel**, Samuel Lunenfeld Research Institute, Mount Sinai Hospital

**"Critical role for C4ST-1 and chondroitin sulfation balance at the convergence of TGFbeta and Ras signaling in mammalian development and Costello syndrome"**

Host: Dr. Chris Brandl

**Friday, July 7, 2006**

Faculty Candidate for the Human Molecular Genetics Position

**Dr. Bonnie Deroo**

National Institute of Environmental Health Sciences, Raleigh, NC

Host: Dr. Chris Brandl

**Friday, November 17, 2006**

**Dr. Natalie Strynadka**, Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of British Columbia

**"Structure based antibiotic discovery on the bacterial membrane"**

Host: Dr. Gary Shaw

# Biochemistry Seminars 2006

**Friday, November 24, 2006**

**Dr. James Coulton**, Department of Microbiology & Immunology, McGill University

Host: Dr. Brian Shilton

**Friday, December 8, 2006 - Cancelled**

**Dr. James Simmer**, University of Michigan, Biologic & Materials Sciences

Host: Dr. Graeme Hunter

**Friday, December 15, 2006**

**Dr. Keqing Ye** Emory University, Atlanta, Georgia USA

**"Nuclear PI 3-kinase Signaling Cascade Promotes Neuronal Cell Survival"**

Host: Dr. Shawn Li

# Biochemistry Seminars 2007

**Friday, January 26, 2007 \*Rescheduled\***

**Dr. Andre Veillette**, Institut de recherches cliniques de Montréal (IRCM)

Host: Dr. Shawn Li

**Friday, February 9, 2007**

**Dr. John P. Phillips**, Department of Molecular & Cellular Biology, University of Guelph

**"Life and Death in a Sea of Oxygen: Drosophila Models of Reactive Oxygen in Aging and Human Disease"**

Host: Dr. Shawn Li

**Friday, March 2, 2007**

**Dr. Kylie Walters**, Department of Biochemistry, Molecular Biology and Biophysics, University of Minnesota

**"NMR studies of how ubiquitin receptors recognize polyubiquitin"**

Host: Sue Safadi, Shaw Lab

**Friday, March 9, 2007**

**Dr. Alba Guarne**, Department of Biochemistry, McMaster University

**"The use of X-ray crystallography to understand chromosome topology"**

Host: Dr. David Haniford

**Friday, March 23, 2007 \*Rossiter Lecture\***

**Dr. André Veillette**, Institut de recherches cliniques de Montréal (IRCM), Faculty of Medicine, McGill

**"SAP family adaptors in immunity"**

Host: Dr. Shawn Li

**Friday, March 30, 2007**

**Dr. Fred Gimble**, Department of Biochemistry, Purdue University, West Lafayette, IN

**"Adding new value to old enzymes: Engineering novel homing endonucleases through studies of structure, function and evolution"**

Host: Dr. David Edgell

**Friday, April 6, 2007 - Holiday - Seminar rescheduled in Sept**

**Dr. Quim Madrenas**, Department of Microbiology and Immunology, UWO

Host: Dr. Shawn Li

**Friday, April 13, 2007**

**Dr. George Chaconas**, Departments of Biochemistry & Molecular Biology and Microbiology & Infectious Diseases, University of Calgary

**"Structure and function of the unusual segmented genome of the Lyme disease spirochete"**

Host: Dr. Chris Brandl

# Biochemistry Seminars 2007

**Friday, April 20, 2007**

**Dr. David O'Gorman, Cell & Molecular Biology UWO**

**"Coming to Grips with the Molecular Mechanisms of Dupuytren's Disease"**

Host: Dr. Tony Rupar

**Friday, April 27, 2007**

**Dr. Joseph Torchia, Department of Physiology and Pharmacology UWO**

**"Biochemical approaches towards understanding Transcriptional Networks in Cancer"**

Host: Dr. Chris Brandl

**Tuesday, May 1, 2007 @ noon in MSB 282**

**Dr. Alex Bullock, Structural Genomics Consortium at the University of Oxford**

**"JAK/STAT signaling: structure and specificity in the SOCS SH2 and PIM kinase families"**

Host: Dr. Shawn Li

**Friday, May 4, 2007**

**Dr. Yingming Zhao, Department of Biochemistry, University of Texas, Southwestern Medical Center at Dallas**

**"Diverse proteomics tools for systems-biology of protein modifications"**

Host: Dr. Derek McLachlin

**Friday, May 11, 2007**

**Dr. Janet Wood, Molecular and Cell Biology, Guelph University**

**"Transporter ProP of Escherichia coli: Osmosensor and Osmoregulator"**

Host: Dr. Stan Dunn

**Friday, May 18, 2007**

**Dr. Bart Hazes, Department of Medical Microbiology & Immunology, University of Alberta**

**"Poxviral plagiarism: structures of a host-derived poxviral glutathione reductase suggest a new function for the host enzyme as well as viral adaptations"**

Host: Dr. Hong Ling

**Friday, May 25, 2007**

**Dr. Michel Tremblay, McGill Cancer Centre**

**"PTP1b and breast cancer"**

Host: Dr. David Litchfield

**Friday, June 8, 2007**

**Dr. Lewis Kay, Department of Chemistry, University of Toronto**

**"Seeing the Invisible by NMR Spectroscopy"**

Host: Dr. James Choy

# Biochemistry Seminars 2007

**Friday, September 7, 2007**

**Dr. Quim Madrenas**, Department of Microbiology and Immunology, UWO

**"Stomatin-like protein 2: bridging the T cell receptor signalosome with mitochondria"**

Host: Dr. Shawn Li

**Friday, September 14, 2007**

**Dr. Wei Yang**, Laboratory of Molecular Biology, NIDDK, National Institutes of Health, Bethesda, MD

**"Stop-action movie of UvrD helicase unwinding DNA 1 base pair at a time"**

Host: Dr. Hong Ling

**Friday, September 21, 2007 - Fall Symposium (1 pm in LHSC - University Campus, Auditorium A)**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Janet Rossant**, Hospital for Sick Children

**"Stem cells and developmental pathways"**

Host: Dr. Megan Davey

## 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. Melissa 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

**Thursday, October 4, 2007 @ 4:00 pm in MSB 384**

**Dr. Linda J. Reha-Krantz**, Department of Biological Sciences, University of Alberta

**"DNA polymerase proofreading at replication forks"**

Host: Dr. Chris Brandl

# Biochemistry Seminars 2007

**Friday, October 5, 2007**

**Dr. Keith Dunker**, Director, Center for Computational Biology & Bioinformatics, Director, Bioinformatics Track, School of Informatics, Professor, Indiana University Schools of Medicine & Informatics

**"Intrinsically Disordered Proteins: Functions, Hubs, Alternative Splicing, and Drug Discovery"**

Host: Dr. James Choy

**Friday, October 19, 2007**

**Dr. Mark Glover**, Department of Biochemistry, University of Alberta

**"Birds do it, bees do it; even cultured bacteria do it -- Structural insights into the regulation of bacterial conjugation"**

Host: Dr. Hong Ling

**Friday, October 26, 2007**

**Dr. Mike Schaller**, Department of Cell and Developmental Biology, UNC School of Medicine, North Carolina

**"FAK Regulation: Conformational Changes Control Activity"**

Host: Dr. David Litchfield

**Friday, November 2, 2007**

**Dr. Pamela Silver**, Department of Systems Biology, Harvard Medical School

**"Designing Biological Systems"**

Host: Dr. Megan Davey

**Friday, November 16, 2007**

**Dr. James Simmer**, University of Michigan, Biologic & Materials Sciences

**"Changing Paradigms in Dentin Formation"**

Host: Dr. Graeme Hunter

**Friday, November 23, 2007**

**Dr. Dave Schriemer**, Department of Biochemistry and Molecular Biology, University of Calgary

**"Frontiers in structural proteomics: Investigating tubulin self-assembly and drug-induced stability with HDX-MS"**

Host: Dr. Ken Yeung

**Friday, December 7, 2007**

**Dr. Paul Gollnick**, Department of Biological Sciences, State University of New York at Buffalo

**"Regulation of the Tryptophan genes in Bacillus subtilis Involve Protein-RNA and Protein-Protein Interactions and lot of subunits"**

Host: Dr. David Edgell

# Biochemistry Seminars 2008

**Friday, January 25, 2008**

**Dr. John Shannon**, Cincinnati Children's Hospital Medical Center

**"LPCAT: a novel lung glycerolipid acyltransferase critical for lung surfactant homeostasis"**

Host: Dr. Fred Possmayer

**Friday, February 1, 2008**

**Dr. James G. Omichinski**, Department of Biochemistry, University of Montréal

**"NMR studies of complexes between the Tfb1/p62 subunit of TFIIF and the acidic activation domains of p53, VP16 and TFIIE"**

Host: Dr. Gary Shaw

**Friday, February 8, 2008**

**Dr. Heinz-Bernard Kraatz**, Department of Chemistry, University of Western Ontario

**"Electrochemical Biosensors: From Bioconjugate to Application"**

Host: Dr. David Litchfield

**Friday, February 22, 2008**

**Dr. Richard Kim**, Department of Medicine, Division of Clinical Pharmacology, Schulich School of Medicine, UWO

**"Intersubject Variation in Drug Responsiveness: Leveraging Omics Technologies to Individualize Drug Therapy"**

Host: Dr. David Litchfield

**Friday, February 29, 2008**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 @ 10:00 AM at LRCP, Rm A3-924 A & B**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Thinking about homology: transvection and ultraconserved elements"**



# Biochemistry Seminars 2008

Host: Dr. Megan Davey

**Friday, April 11, 2008 - Spring Symposium (9 am - 1pm at 3M Centre, Rm 3250)**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Signal transduction from a protein tyrosine phosphatase perspective"**

Host: Dr. David Litchfield

## 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 Short coffee break (Auditorium lobby)

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

Noon: Lunch

**Friday, April 18, 2008**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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, April 25, 2008**

**Dr. Frank Sicheri**, Department of Molecular and Medical Genetics, University of Toronto

**"Principles of protein kinase regulation: Insights into the mechanism of action of the UPR sensor Ire1"**

Host: Dr. Shawn Li

**Friday, May 9, 2008**

**Dr. Giuseppe Melacini**, Departments of Chemistry, Biochemistry & Biomedical Science, McMaster University

**"Mapping cAMP-Dependent Allostery by NMR Spectroscopy"**

Host: Dr. Gary Shaw

**Friday, May 16, 2008**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))



# Biochemistry Seminars 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, May 23, 2008**

**Dr. Susan Lees-Miller**, University of Calgary, Department of Biochemistry and Molecular  
Biology

**"The role of phosphorylation in nonhomologous end-joining"**

Host: Dr. Caroline Schild-Poulter

**Friday, May 30, 2008**

**Dr. Jeffrey Dixon**, Department of Physiology & Pharmacology, University of Western Ontario

**"Role of P2X7 - an ionotropic nucleotide receptor - in the control of bone remodeling by osteoblasts and osteoclasts"**

Host: Dr. Fred Possmayer

**Friday, June 6, 2008**

**Dr. Peter Chidiac**, Department of Physiology & Pharmacology, University of Western Ontario

**"RGS2 - A Novel Inhibitor of Translation"**

Host: Dr. Shawn Li

**Friday, September 12, 2008**

**Dr. Eric Alani**, Department of Molecular Biology and Genetics, Cornell University

**"Modeling disease penetrance in yeast"**

Host: Dr. Hong Ling

**Friday, September 19, 2008**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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, September 26, 2008**

**Dr. Peter Scacheri**, Department of Genetics School of Medicine, Case Western Reserve  
University

**"Genomic studies of CHD7, the protein mutated in CHARGE syndrome"**

Host: Dr. Nathalie Berube

# Biochemistry Seminars 2008

**Friday, October 3, 2008 - Fall Symposium**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Factors that control transcription and chromatin structure in yeast"**

Host: Dr. Chris Brandl

**Friday, October 10, 2008**

**Dr. Zongchao Jia**, Department of Biochemistry, Queen's University

**"The first structure of bacterial tyrosine kinase"**

Host: Dr. Hong Ling

**Friday, October 17, 2008**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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

**Monday, October 20, 2008 @ 2:30 pm in DSB 3008**

**Dr. Elsa Yan**, Department of Chemistry, Yale University

**"Photoactivation of G Protein-Coupled Receptor Rhodopsin"**

Host: Dr. James Choy

**Friday, November 7, 2008**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

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

Host: Dr. David Litchfield

**Friday, November 28, 2008**

**Dr. Sachdev Sidhu**, University of Toronto

**"Natural and Synthetic PDZ Domains"**

Host: Dr. Shawn Li

# Biochemistry Seminars 2008

Friday, December 12, 2008

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Molecular biology of mammalian prion proteins"**

Host: Dr. Richard Rozmahel

# Biochemistry Seminars 2009

**Friday, January 16, 2009**

**Dr. Lynne-Marie Postovit**, Department of Anatomy & Cell Biology, UWO

**"Using early developmental models to understand cancer: Nodal points"**

Host: Dr. David Litchfield

**Friday, February 6, 2009**

**Dr. Cathy Shilton**, Veterinary Pathologist, Berrimah Veterinary Laboratories, Northern Territory, Australia

**"The Saga of Cane Toads in Australia: Ecology Meets Pathology"**

Host: Dr. Brian Shilton

**Wednesday, February 11, 2009 @ 10:30 am in MSB 148**

**Dr. Linda J. Reha-Krantz**, Department of Biological Sciences, University of Alberta

**"Using a drug-sensitive DNA polymerase delta to probe DNA replication and S-phase checkpoint responses in yeast"**

Host: Dr. Chris Brandl

**Friday, February 13, 2009 @ 10:30 am. in MSB 384**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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, February 20, 2009**

**Dr. Wei Xiao** Department of Microbiology and Immunology College of Medicine, University of Saskatchewan

**"Unconventional Ubiquitination: Structure, Activity and Biological Functions"**

Host: Dr. Hong Ling

**Friday, March 13, 2009**

**Dr. Trevor Shepherd**, Translational Oncology Scientist, Regional Cancer Program, Assistant Professor, Department of Obstetrics & Gynecology, Western

**"Towards an understanding of ovarian cancer pathogenesis: navigating the BMPs in the road"**

Host: Dr. David Litchfield

**Friday, March 27, 2009**

**Dr. Marco Prado**, Department of Physiology & Pharmacology and Department of Anatomy & Cell Biology, Western

**"The Yin-Yang of Prion Protein Biology"**

Host: Dr. David Litchfield

# Biochemistry Seminars 2009

**Friday, April 17, 2009**

**Dr. Lynne Howell** Sick Kids, Program Head, Senior Scientist, Professor of Biochemistry  
**"Deciphering the Pseudomonas aeruginosa Type IV pilus assembly complex"**

Host: Dr. Gary Shaw

**Friday, May 1, 2009**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

Dr. Michel Desjardins, University of Montreal

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

Host: Dr. Gilles Lajoie

**Friday, May 8, 2009**

**Dr. Moshmi Bhattacharya** Department. of Physiology & Pharmacology, Western  
**"G protein-coupled signaling networks in breast cancer"**

Host: Dr. Bonnie Deroo

**Friday, May 15, 2009**

**Dr. William Navarre** University of Toronto, Department of Molecular Genetics

**"Silencing of Foreign DNA in Bacteria – how phage defense influences the acquisition and regulation of virulence factors"**

Host: Dr. David Haniford

**Friday, May 22, 2009**

**Dr. Kristin Baetz** Department of Biochemistry, Microbiology and Immunology, University of Ottawa

**"Deciphering the role of NuA4 in chromosome stability"**

Host: Dr. Chris Brandl

**Friday, June 5, 2009**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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, June 19, 2009**

**Dr. Walter L. Siqueira**, Assistant Professor in Dentistry, Schulich School of Medicine & Dentistry

**"The Salivary Proteome"**

Host: Dr. David Litchfield

# Biochemistry Seminars 2009

**Monday, August 17, 2009**

**Dr. William Atchley**, North Carolina State University, Departments of Genetics, Statistics and Biomathematics

**"The Statistical Analysis of High-Dimensional Molecular Data"**

Host: Dr. Andrew Fernandes

**Friday, September 18, 2009**

**Dr. Susan Buchanan**, Laboratory of Molecular Biology, NIDDK, NIH, Bethesda, MH

**"Import and export across the bacterial outer membrane"**

Host: Dr. Hong Ling

**Friday, September 25, 2009**

**Dr. Sean Cregan**, Department of Physiology & Pharmacology, Western

**"Transcriptional regulation of Bax-mediated neuronal cell death"**

Host: Dr. Caroline Schild-Poulter

**Friday, October 2, 2009**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 9, 2009**

**Dr. Simon Sharpe**, University of Toronto, The Hospital for Sick Children

**"Investigating the structure and assembly of amyloid peptides and integral membrane proteins"**

Host: Dr. Brian Shilton

**Friday, October 16, 2009**

**Dr. John Rubinstein**, The Hospital for Sick Children, Toronto

**"Electron cryomicroscopy of ATP synthase and the Vacuolar ATPase"**

Host: Dr. Stan Dunn

**Friday, October 30, 2009 - Fall Symposium (9 am - 1 pm)**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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

# Biochemistry Seminars 2009

**Friday, November 6, 2009**

**Dr. Daniel Durocher**, Mount Sinai Hospital, Joseph and Wolf Lebovic Health Complex,  
Samuel Lunenfeld Research Institute

**"Functional genomics of the response to DNA double-strand breaks"**

Host: Dr. Caroline Schild-Poulter

**Wednesday, November 11, 2009**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Steve Scherer**, Sick Kids Hospital

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

Host: Dr. Rob Hegele

**Friday, December 4, 2009**

**Dr. Sheng-Xiang SL. Lin**, Department of Anatomy & Physiology, University of Laval

**"Structure, function and inhibition of reductive 17beta-HSDs: study at the levels of molecules, breast cancer cells and animal models"**

Host: Dr. Hong Ling

**Friday, December 11, 2009**

**Dr. Anne-Claude Gingras**, Samuel Lunenfeld Research Institute

**"Charting the kinase/phosphatase interactomes"**

Host: Dr. David Litchfield

**Tuesday, December 15, 2009**

**Dr. Andrew Byrd**; Director, Molecular Discovery Program; Chief, Structural Biophysics  
Laboratory; National Cancer Institute; Frederick, Maryland

**"Allosteric Effects on Ubiquitin Ligase Activity by a Novel E2 Binding Region:  
Integration of Structural and Molecular Biology"**

Host: Dr. Gary Shaw



# Biochemistry Seminars 2010

**Friday, January 8, 2010**

**Dr. Vania Prado**, Department of Physiology & Pharmacology, Western

**"Neurochemical alterations in mice deficient for the vesicular acetylcholine transporter"**

Host: Dr. David Litchfield

**Friday, January 22, 2010 \*CANCELLED\***

**Dr. John MacDonald**, RRI, Department of Physiology & Pharmacology, Western

**"Channel protein targets in Stroke"**

Host: Dr. David Litchfield

**Friday, January 29, 2010**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 5, 2010**

**Dr. Jan Rainey**, Dalhousie University, Department of Biochemistry & Molecular Biology

**"Structure-function investigations of apelin and its G-protein coupled receptor"**

Host: Dr. Brian Shilton

**Friday, February 12, 2010 - Winter Symposium (9 am - 1 pm in DSB 1002)**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. David Allis**, Rockefeller University in New York

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

Host: Dr. Megan Davey

**Friday, February 26, 2010**

**Dr. Gil Prive**, Department of Biochemistry, University of Toronto

**"The BTB domain as a target for structure-based drug design: small molecule inhibitors of a BCL6/corepressor protein-protein interaction"**

Host: Dr. Hong Ling

**Friday, March 5, 2010**

**Dr. John Lewis**, Director: Translational Prostate Cancer Research Group, Department of Oncology, Western

**"Viral nanoparticles: a multivalent platform for molecular imaging of cancer"**

Host: Dr. Gabe DiMattia



# Biochemistry Seminars 2010

**Friday, March 12, 2010**

**Dr. Christopher Pin**, Department of Physiology & Pharmacology, Western

**"Signaling networks affecting pancreatic differentiation and disease"**

Host: Dr. Gabriel DiMattia

**Friday, March 26, 2010**

**Dr. Benoit Chabot**, CRC Functional Genomics, University of Sherbrooke Quebec

**"Cancer-specific alternative splicing"**

Host: Dr. Peter Rogan

**Thursday, April 22, 2010 @ 10:30 am**

**Dr. Edward A. Fon**, Director, McGill Parkinson Program, Montreal Neurological Institute, McGill University

**"Novel Functions of Parkin in Neurodegeneration"**

Host: Dr. Gary Shaw

**Friday, April 23, 2010**

**Dr. Guo-Min Li**, University of Kentucky, College of Medicine, Toxicology Department

**"DNA heteroduplex repair in human cells"**

Host: Dr. Hong Ling

**Friday, April 30, 2010**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 7, 2010**

**Dr. Maxim Frolov**, University of Illinois, Deptment. of Biochemistry and Molecular Genetics

**"The role of dE2F/RBF during normal and oncogenic proliferation"**

Host: Dr. Fred Dick

**Friday, May 14, 2010**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"The Expanding Universe of p53 Targets"**

Host: Dr. Bonnie Deroo

# Biochemistry Seminars 2010

**Friday, May 21, 2010**

**Dr. Joseph Martens**, University of Pittsburgh, Department of Biological Sciences

**"Repression by intergenic transcription: its all about chromatin"**

Host: Dr. Chris Brandl

**Friday, June 4, 2010**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 17, 2010 \*CANCELLED\***

**Dr. Mikko Karttunen**, Dept. of Applied Math, UWO

Host: Dr. James Choy

**Friday, September 24, 2010**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Alexandra Newton**, University of California at San Diego

**"Spatiotemporal dynamics of lipid second messenger signaling"**

Host: Dr. David Litchfield

**Friday, October 08, 2010 \*CANCELLED\***

**Dr. Frances Sharom**, University of Guelph

**"Trafficking in drugs: the P-glycoprotein efflux pump"**

Host: Dr. Stan Dunn

**Friday, October 29, 2010**

**Dr. Chuck Bieberich**, Biological Sciences, UMBC

**"A New Paradigm to Monitor Phosphorylation Stoichiometry of the Proteome: Do Kinase Inhibitor Drugs Really Work?"**

Host: Dr. David Litchfield

# Biochemistry Seminars 2010

**Friday, November 05, 2010**

**Dr. Martin Holcik**, Apoptosis Research Centre and Department of Pediatrics, University of Ottawa

**"Selective translation - tipping the scales of cancer"**

Host: Dr. Caroline Schild-Poulter

**Thursday, November 11, 2010 @ 2:30 pm**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Dehydrated but Unharmful? Mass Spectrometry of Protein Complexes"**

Host: Dr. Lars Konermann

**Friday, November 12, 2010**

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

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

Host: Dr. Lars Konermann

**Friday, November 19, 2010 - Fall Symposium (9 am - 1:00 pm in SH 3345)**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. John Kuriyan**, University of California, Berkeley

**"Regulatory Control of Catalytic Activity in Protein Kinases"**

Hosts: Dr. Megan Davey and Dr. Hong Ling

Schedule

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 in the Great Hall, Somerville House

10:45 am Dr. John Kuriyan

12:00 pm Lunch in the Great Hall, Somerville House

**Friday, November 26, 2010**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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

**Friday, December 03, 2010**

**Dr. Doug Gray**, University of Ottawa **"Loss of ubiquitin homeostasis in diseases of aging"**

Host: Dr. Caroline Schild-Poulter

# Biochemistry Seminars 2010

**Friday, December 10, 2010 \*CANCELLED\***

**Dr. Ray Trievel**, Biological Chemistry, University of Michigan Medical School

**"Structure and Function of Histone Modifying Enzymes"**

Host: Dr. Stan Dunn

**Wednesday December 15, 2010 @1:00 pm \*CANCELLED\***

**Dr. Jennifer Surtees**, Department of Biochemistry, School of Medicine and Biomedical Sciences SUNY at Buffalo

**"Mismatch Repair Protein Multi-Tasking: Multiple Pathways for Maintaining Genome Stability"**

Host: Dr. Megan Davey

# Biochemistry Seminars 2011

**Friday, January 07, 2011**

**Dr. Stephen Pasternak**, Robarts Research Institute, UWO

**"Dissecting the rapid lysosomal transport of the Amyloid Precursor Protein using live cell imaging"**

Host: Dr. Caroline Schild-Poulter

**Friday, January 14, 2011**

**Dr. Bill Stanford**, Canada Research Chair in Stem Cell Biology & Functional Genomics, Professor, Institute of Biomaterials & Biomedical Engineering, University of Toronto

**"An Integrative Approach to Studying Development and Disease using Pluripotent Stem Cells"**

Host: Dr. Shawn Li

**Friday, January 28, 2011**

**Dr. James Staples**, Dept. of Biology, UWO

**"Suppression of Mitochondrial Metabolism in a Mammalian Hibernator: Kinetics and Mechanisms"**

Host: Dr. Fred Possmayer

**Friday, February 4, 2011**

**Dr. Martin McGavin**, Department of Microbiology & Immunology, UWO

**"Studies on expression, maturation and function of enzymatic virulence factors of Staphylococcus aureus"**

Host: Dr. David Litchfield

**Friday, February 11, 2011**

**Dr. Dehua Pei**, Department of Chemistry, The Ohio State University

**"Specificity Profiling of Signaling Proteins through Combinatorial Chemistry"**

Host: Dr. Shawn Li

**Friday, February 25, 2011**

**Dr. John F. MacDonald**, Robarts Research Institute, Western

**"Hippocampal Signaling by subtypes of NMDARs: TRPing over NMDARs into Alzheimers Research?"**

Host: Dr. David Litchfield

**Thursday, March 03, 2011 @ 9 am in MSB 384**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Nahum Sonenberg**, McGill University, Dept. of Biochemistry and Goodman Cancer Centre

**"Mechanism of action of microRNAs"**

Host: Dr. David Litchfield

**Friday, March 11, 2011**

# Biochemistry Seminars 2011

**Dr. Quim Madrenas**, Canada Research Chair in Immunobiology, Dept. of Microbiology and Immunology, Robarts Research Institute, UWO

**"University: A challenge to embrace change"**

Host: Dr. Fred Possmayer

**Friday, March 25, 2011**

**Dr. Jacques Cote**, Laval University Cancer Research Center

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

Host: Dr. Chris Brandl

**Friday, April 8, 2011**

**Dr. Steve Withers**, Department of Chemistry, UBC

**"New approaches to glycoside synthesis through directed evolution of enzymes"**

Host: Dr. Gilles Lajoie

**Thursday, April 21, 2011**

**Dr. Adrian Owen**, Canada Excellence Research Chair in Cognitive Neuroscience and Imaging, Centre for Brain and Mind, UWO

**"Imaging Consciousness"**

Host: Dr. Megan Davey

**Friday, April 29, 2011**

**Dr. John Di Guglielmo**, Department of Physiology & Pharmacology, UWO

**"TGFbeta receptor biology and cell migration"**

Host: Dr. Brian Shilton

**Friday, May 06, 2011**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 9 am - 1:00 pm**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Jean Wang**, UC SanDiego, Division of Biological Sciences

**"Regulation of Cell Death Decision"**

Host: Dr. Fred Dick

# Biochemistry Seminars 2011

**Friday, May 20, 2011**

**Dr. Frances Sharom**, University of Guelph

**"Trafficking in drugs: the P-glycoprotein efflux pump"**

Host: Dr. Stan Dunn

**Friday, September 30, 2011**

**Dr. George Mackie**, University of British Columbia

**"The 5'-end dependent pathway of mRNA turnover: mechanisms and consequences"**

Host: Dr. Chris Brandl

**Friday, October 7, 2011**

**Dr. Ray Trievel**, University of Michigan

**"Structure and Function of Protein Methyltransferases and Demethylases"**

Hosts: Dr. Stan Dunn and Dr. Hong Ling

**Friday, October 14, 2011**

**Dr. Ze-Chun Yuan**, Agriculture and Agri-Food Canada

**"Dissecting bacterium-plant signaling networks in the rhizosphere"**

Host: Dr. David Litchfield

**Friday, November 4, 2011**

**Dr. Bob Mercer**, Computer Science at UWO

**"Extracting Information from Scholarly Biomedical Writing"**

Host: Dr. Peter Rogan

**Friday, November 25, 2011**

**Dr. Ross Feldman**, Depts. of Medicine and of Physiology & Pharmacology, UWO

**"Unraveling the mechanisms underlying the rapid effects of steroids: sorting out the receptors and the pathways"**

Host: Dr. David Litchfield

**Friday, December 2, 2011**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

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

Host: Dr. Lars Konermann

# Biochemistry Seminars 2011

Friday, December 16, 2011

Dr. Voula Kanelis, Department of Chemical & Physical Sciences, University of Toronto

"Biophysical studies of the first nucleotide binding domain from SUR2A"

Host: Dr. Brian Shilton



# Biochemistry Seminars 2012

**Friday, January 6, 2012**

**Dr. Anthony Nichols, Department of Otolaryngology, UWO**  
**"Personalizing care for patients with head and neck cancer"**  
Host: Dr. David Litchfield

**Friday, January 13, 2012**

**Dr. Amanda Moehring, Department of Biology, Western (formerly UWO)**  
**"Sex, flies and video tape: The genetics of species isolation"**  
Host: Dr. Bonnie Deroo

**Friday, January 20, 2012 - 1:30 PM Kingsmill Room Huron University College**  
**Harold B. Stewart Memorial Lecture & Research Showcase**

**Dr. Michael Surette, Department of Biochemistry & Biomedical Sciences, and**  
**Department of Medicine, McMaster University**  
**"Rethinking Respiratory Infections: Pathogens, Synergens and the Airway Microbiome"**  
Host: Dr. David Litchfield

**Friday, February 3, 2012 \*CANCELLED\***

**Dr. Adam Bogdanove, Plant Pathology and Microbiology, Iowa State University**  
**"The DNA targeting structure of TAL effector proteins"**  
Host: Dr. David Edgell

**Friday, February 10, 2012**

**Dr. John Allingham, School of Medicine, Faculty of Health Sciences, Queens University**  
**"On the Road with a Dead Head: A Look Under the Hood of Kinesins that Pair with Non-Catalytic Motors"**  
Host: Dr. Brian Shilton

**Friday, February 24, 2012**

**Dr. Kerri Kobryn, College of Medicine, Microbiology & Immunology, University of**  
**Saskatchewan**  
**"Making the Hairpin Telomeres of Borrelia"**  
Host: Dr. David Haniford

**Thursday March 8, 2012 @ 2:30 pm in MSB 148**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Rosemary Redfield, Life Sciences Institute, Bacterial Adaptation and Response**  
**Networks, University of British Columbia**  
**'#arseniclife and open science'**  
Host: Dr. David Edgell

# Biochemistry Seminars 2012

**Friday, March 9, 2012**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Do Bacteria Have Sex"**

Host: Dr. David Edgell

**Friday, March 23, 2012**

**Dr. Allan Weissman**, Center for Cancer Research, Laboratory of Protein Dynamics and Signaling, NCI

**"Insights from Studying the Ubiquitin-Proteasome System in Degradation from the Endoplasmic Reticulum and Mitochondria"**

Host: Dr. Gary Shaw

**Friday, March 30, 2012**

**Dr. Adam Bogdanove**, Plant Pathology and Microbiology, Iowa State University

**"The DNA targeting structure of TAL effector proteins"**

Host: Dr. David Edgell

**Friday, April 13, 2012**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Susan Gottesman**, National Cancer Institute

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

Host: Dr. David Haniford

**Tuesday April 17, 2012 @10:30 am in MSB 384**

**Dr. Gerold Schmitt-Ulms**, Tanz Centre for Research in Neurodegenerative Diseases, University of Toronto

**"The new ZIP on the block: significance of evolutionary descent of prion genes from a zinc metal ion transporter"**

Host: Dr. Lars Konermann

**Friday, April 20, 2012**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**Dr. Jean Vance**, University of Alberta

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

# Biochemistry Seminars 2012

Host: Dr. Fred Possmeyer

**Friday, May 4, 2012**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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 in lobby, Labatt Health Sciences Bldg Rm 35

11:00 am Dr. Sergio Grinstein

12:00 pm Lunch in lobby, Labatt Health Sciences Bldg Room 35

**Friday, Aug 24, 2012 - Summer Symposium\***

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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

# Biochemistry Seminars 2012

**Friday, 2 November, 2012**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

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

Host: Dr. Susan Meakin

**Thursday, 29 November, 2012 (11:30 am-12:30 pm)**

**Dr. Valerie Booth**, Memorial University, St. John's, NL

**"How do antimicrobial peptides really work? From high resolution structures to whole cell biophysics"**

Host: Dr. James Choy

**Friday, 21 December, 2012**

**Dr. Murray Junop**, Biochemistry and Biomedical Sciences, McMaster University

**"Human XRCC4-XLF complexes mediate DNA bridging in double-strand break repair"**

Host: Dr. Hong Ling

# Biochemistry Seminars 2013

**Friday, 11 January, 2013**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

**"Resistance guided antibiotic discovery"**

Host: Dr. Gilles Lajoie

**Friday, 25 January, 2013 \*POSTPONED\***

**Dr. Marcela Carrilho**, Assistant Professor & Clinician-Scientist, Dentistry Program, Schulich School of Medicine & Dentistry, Western University

Host: Dr. David Litchfield

**Friday, 22 March, 2013**

**Dr. Peter Stirling**, Michael Smith Laboratories, University of British Columbia (Faculty Candidate)

**"Modelling Cancer Genome Instability in a Simple Cell"**

Host: Dr. David Litchfield

**Wednesday, 27 March, 2013 @ 2:30 pm**

**Dr. Jeanne Hardy**, Department of Chemistry, University of Massachusetts, Amherst

**"Suicidal Shape Shifters: Conformational control and real-time monitoring of caspase proteolytic activity"**

Host: Dr. David Litchfield

**Friday, 5 April, 2013**

**Dr. Jim Uniacke**, Faculty of Medicine, University of Ottawa (Faculty Candidate)

**"Cellular adaptation to hypoxia by a switch in the protein synthesis machinery"**

Host: Dr. David Haniford

**Friday, 12 April, 2013**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

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

Host: Dr. Gilles Lajoie

**Friday, 19 April, 2013**

**Dr. Emanuel Rosonina** (Faculty Candidate), Department of Biological Sciences, Columbia University, New York

**"SUMO on the promoter: Sumoylation regulates transcription factors during gene activation"**

Host: Dr. David Haniford

# Biochemistry Seminars 2013

**Wednesday, 24 April 2013 @ noon**

**Dr. Ilka Heinemann**, Department of Molecular Biophysics & Biochemistry, Yale University

**"Microbial Innovation is a Source of Novel Antibiotic Targets and RNA Metabolism"**

Host: Dr. David Litchfield

**Friday, 26 April, 2013 \*\*NOTE DSB 1002\*\***

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

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

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

Host: Dr. David Haniford

**Friday, 3 May 2013**

**Distinguished University Professorship Lecture**

**Dr. Stan Dunn**, Dept. of Biochemistry, Western University

**"Soliloquy on ATP Synthase: Two b's or not two b's –Is that the question?"**

Host: Dr. David Litchfield

**Friday, 10 May, 2013 \*\*NOTE DSB 1002\*\***

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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, 17 May, 2013**

**Dr. Martin Duennwald**, Dept. of Pathology, Western University

**"Protein misfolding and its consequences in neurodegenerative diseases."**

Host: Dr. James Choy

**Friday, 31 May 2013 - Spring Symposium (9 am - 1 pm in 3M Building, Room 3250)**

**Dr. Maud L. Menten Memorial Lecture Series** ([see schedule here](#))

**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

# Biochemistry Seminars 2013

12:00 pm - Lunch

**Tuesday, 30 July 2013**

**[Dr. John Spouge](#)**, National Center for Biotechnology Information, Bethesda, MD  
**"Finding Networks of Transcription Factors and Their Function with Position and Sequence"**

Host: Dr. David Litchfield

**Friday, 2 Aug 2013**

**[Dr. Zhenguo Wu](#)**, Professor of Biochemistry, Hong Kong University of Science and Technology  
**"PaxBP1, a novel Pax7- and Pax3-binding protein that regulates the proliferation of muscle precursor cells by an epigenetic mechanism"**

Host: Dr. Shawn Li

**Wednesday, 4 Sept 2013 \*\*NOTE DATE\*\***

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

**[Dr. Bernhard Lüscher](#)**, Institute of Biochemistry and Molecular Biology, Klinikum, RWTH Aachen University, Aachen, Germany

**"Mechanism and function of intracellular mono-ADP-ribosylation: regulation of NF- $\kappa$ B signaling"**

Host: Dr. David Litchfield

**Friday, 13 Sept 2013**

**[Dr. Angela Rutledge](#)**, London Laboratory Services Group, Maternal Screening and Endocrinology Laboratory, London Health Sciences Centre

**"A Little of This, A Little of That, and A Lot of Lipoproteins and Clinical Biochemistry"**

Host: Dr. Chris Brandl

**Tuesday, 24 Sept 2013 \*\*NOTE DATE\*\***

**[Dr. Gang-yu Liu](#)**, Dept, of Chemistry, University of California, Davis, CA

**"Engineered Nanostructures for Investigation and Regulation of Cellular Signaling Processes"**

Host: Dr. Shawn Li

**Friday, 11 Oct 2013 - 9:30 am to 1:00 pm**

**[Dr. Maud L. Menten Memorial Lecture Series - Fall Symposium](#)** Kingsmill Room, Huron University College **\*\*NOTE LOCATION\*\***

**[Dr. Mitsu Ikura](#)**, Ontario Cancer Institute, Dept. of Medical Biophysics, University of Toronto  
**"Dissecting RAS Cancer Cell Signaling in NMR Towards Personalized Medicine"**

Host: Dr. Shawn Li



# Biochemistry Seminars 2013

## Schedule

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

9:30 am - Dr. Gary Shaw, Dept. of Biochemistry "The Brilliant Disguise of Parkin, an E3 ligase in Early-Onset Parkinson's Disease"

10:00 am - Dr. James Choy, Dept. of Biochemistry "Experimental and computational studies of intrinsically disordered proteins involved in the Nrf2/Keap1 pathway"

10:30 am - Break

10:45 am - Dr. Mitsu Ikura

12:00 pm - Lunch in Huron Dining Hall

## Friday, 18 Oct 2013

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

**[Dr. Eva Nogales](#)**, Biochemistry and Molecular Biology, UC Berkeley, Berkeley, CA

**"Mechanistic Insights into Complex Biological Processes from the Direct Visualization of Macromolecular Assemblies by Cryo-EM"**

Host: Dr. Chris Brandl

## Friday, 25 Oct 2013

Faculty Candidate

**[Dr. Joseph Martens](#)**, Department of Biology, Hamilton College, University of Pittsburgh, Pittsburgh, PA

**"Investigating Transcription-coupled Chromatin Dynamics and its Impact on Gene Regulation"**

Host: Dr. David Edgell

## Thursday, 31 Oct 2013      **\*\*NOTE DATE\*\***

Faculty Candidate

**[Dr. Xu-Dong Zhu](#)**, Department of Biology, McMaster University, Hamilton, ON

**"Molecular Mechanisms of Telomere Maintenance and DNA Repair"**

Host: Dr. David Edgell

## Friday, 8 Nov 2013

Faculty Candidate

**Dr. Timothy Shutt**, University of Ottawa Heart Institute

**"Mechanistic insights into the redox regulation of mitochondrial morphology"**

Host: Dr. David Edgell

## Friday, 15 Nov 2013

Faculty Candidate

**Dr. Martin Jones**, Dept. of Medical Genetics, University of British Columbia

**"Functionalizing cancer genes with *C. elegans*: Oncogenes and Tumour Suppressors"**

Host: Dr. David Edgell



# Biochemistry Seminars 2013

Friday, 22 Nov 2013

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

[Dr. Seth Rubin](#), Chemistry and Biochemistry, University of California, Santa Cruz, CA

**"Specificity in Cell Cycle Signaling by Multisite Phosphorylation"**

Host: Dr. Fred Dick

Wednesday, 27 Nov 2013 @1:30 pm **\*\*NOTE DATE AND TIME\*\***

Faculty Candidate

[Dr. Murray Junop](#), Department of Biochemistry and Biomedical Sciences, McMaster University

**"Tying up loose ends: how cells overcome the critical and complex challenge of faithfully annealing ssDNA during DNA repair"**

Host: Dr. David Edgell

Friday, 29 Nov 2013

[Dr. Greg Findlay](#), Programme Leader, Stem Cell Signaling Group, MRC Protein Phosphorylation and Ubiquitylation Unit, University of Dundee, Scotland

**"Modular Interaction Systems in Cell Fate Regulation"**

Host: Dr. Shawn Li

Friday, 13 Dec 2013

[Dr. Ravi Menon](#), Robarts Scientist and Canada Research Chair in Functional and Molecular Imaging; Director, Centre for Functional and Metabolic Mapping; Professor of Medical Biophysics, Physics, Medical Imaging & Psychiatry, Western University

**"Fleeting thoughts: Measuring dynamic changes in human and non-human primate brain connectivity with functional MRI"**

Host: Dr. David Litchfield

Friday, 20 Dec 2013

[Dr. Daniel Cipriano](#), Research Specialist, Howard Hughes Medical Institute, Stanford University School of Medicine, Stanford, CA

**"The mechanism of an AAA+ Machine: processive ATP-driven disassembly of SNARE proteins by the N-ethylmaleimide sensitive factor (NSF)"**

Host: Dr. David Litchfield