SEMINARS APRIL 2015
Send your E-poster to medicine.research@utoronto.ca
Department of Immunology

Special Seminar

Dr. Robert Silverman
Department of Cancer Biology
Lerner Research Institute
Cleveland Clinic
Cleveland, Ohio

(Host: Dr. Eleanor Fish)

“RNase L Activates the NLRP3 Inflammasome During Viral Infections.”

Wednesday, April 1, 2015
4:00 p.m.
Room 7231, Medical Sciences Building
University of Toronto
Department of Immunology

Special Seminar

Lena Serghides, PhD
Scientist, Toronto General Research Institute
University Health Network
Toronto, ON

(Host: Dr. Juan Carlos Zúñiga-Pflücker)

“HIV and Pregnancy: Why do HIV+ pregnant women have more adverse birth outcomes?

Thursday, April 23, 2015
11:00 a.m.
Room 4279, Medical Sciences Building
University of Toronto

A candidate for cross-appointment to the Department of Immunology
Department of Immunology

Special Seminar

Daniel De Carvalho, PhD
Department of Medical Biophysics
Princess Margaret Cancer Centre
Toronto, ON

(Host: Dr. Juan Carlos Zúñiga-Pflücker)

“Mechanistic insight into the durable antitumor effect of DNA demethylating agents in colorectal cancer: Importance of the virus defense sensing pathways.”

Thursday, April 30, 2015
11:00 a.m.
Room 4279, Medical Sciences Building
University of Toronto

A candidate for cross-appointment to the Department of Immunology
DEPARTMENT OF IMMUNOLOGY

Charles Gould Easton

SEMINAR SERIES

Robert Vonderheide, MD, DPhil
University of Pennsylvania
Philadelphia, PA

http://www.med.upenn.edu/apps/faculty/index.php/g2000320/p1073

(Host: Dr. Naoto Hirano)

“Inflammatory networks and immune surveillance of cancer.”

Monday, April 13, 2015
11:10 a.m.
Room 2172 Medical Sciences Bldg.
1 King’s College Circle
University of Toronto
DEPARTMENT OF IMMUNOLOGY

Charles Gould Easton

SEMINAR SERIES

Martin F. Flajnik, PhD
Professor
Microbiology and immunology
University of Maryland
School of Medicine
Baltimore, MD

http://medschool.umaryland.edu/facultyresearchprofile/viewprofile.aspx?id=5216

(Host: Dr. Jonathan Rast)

“Emergence and evolution of secondary lymphoid tissues.”

Monday, April 20, 2015
11:10 a.m.
Room 2172 Medical Sciences Bldg.
1 King’s College Circle
University of Toronto
DEPARTMENT OF IMMUNOLOGY

Charles Gould Easton

SEMINAR SERIES

Tobias R. Kollman, MD, PhD
Senior Clinician Scientist, CFRI
Associate Professor
Pediatric Infectious & Immunological Diseases
BC Children’s Hospital & University of British Columbia
Vancouver, BC

http://cfri.ca/kollmann-lab
http://cfri.ca/our-research/researchers/results/Details/tobias-r-kollmann

(Host: Dr. Eleanor Fish)

“TBA.”

Monday, April 27, 2015
11:10 a.m.
Room 2172 Medical Sciences Bldg.
1 King’s College Circle
University of Toronto
Tuesday, April 7th

Speaker: Norman Yau  
Affiliation: Graduate Student, Department of Molecular Genetics  
Supervisor: Dr. Helen McNeill  
Title: Characterizing the role and regulation of the Fat cacherin family on mitochondrial function  
Time: 3PM  
Place: Mechanical Engineering Building, 5 King's College Road, Room 102

Speaker: Aggie Gao  
Affiliation: Graduate Student, Department of Molecular Genetics  
Supervisor: Dr. John Brumell  
Title: Actin dynamics during salmonella invasion  
Time: 3PM  
Place: Mechanical Engineering Building, 5 King's College Road, Room 102

Wednesday, April 8th

Speaker: Erin Styles  
Affiliation: PhD Candidate, Department of Molecular Genetics  
Supervisor: Dr. Brenda Andrews  
Title: A phenomic assessment of subcellular morphology in *Saccharomyces cerevisiae* using synthetic genetic array analysis and high-content screening  
Time: 10AM  
Place: Donnelly Centre Red Seminar Room, 160 College Street

Speaker: Dr. Phil Hieter  
Affiliation: University of British Columbia  
Host: Dr. Brenda Andrews  
Title: Chromosome instability and synthetic lethality in yeast and cancer  
Time: 3PM  
Place: Donnelly Centre Red Seminar Room, 160 College Street
Molecular Genetics
UNIVERSITY OF TORONTO

Seminar Schedule
April 2015

Tuesday, April 14th

Speaker: Yi Liu
Affiliation: Graduate Student, Department of Molecular Genetics
Supervisor: Dr. Laurence Pelletier
Title: Functional characterization of Ankyrin-B in centriole duplication
Time: 3PM
Place: Mechanical Engineering Building, 5 King’s College Road, Room 102

Speaker: Jason Tja
Affiliation: Graduate Student, Department of Molecular Genetics
Supervisor: Dr. Leah Cowen
Title: A functional genomic approach to study C. albicans adherence
Time: 3PM
Place: Mechanical Engineering Building, 5 King’s College Road, Room 102

Wednesday, April 15th

Speaker: Dr. R. Frank Rosenzweig
Affiliation: University of Montana
Host: Dr. Marc Meneghini
Title: T.B.A.
Time: 3PM
Place: Medical Sciences Building, 1 King’s College Circle, Room 4171
Seminar Schedule
April 2015

Thursday, April 16th

Speaker: Michael Eastwood
Affiliation: PhD Candidate, Department of Molecular Genetics
Supervisor: Dr. Marc Meneghini
Title: Programmed cell death is intrinsic to yeast gametogenesis
Time: 10AM
Place: Medical Sciences Building, 1 King's College Circle, Room 4171

Speaker: Dr. Anath Lionel
Affiliation: 2013-2014 Barbara Vivash Award in Molecular Genetics Recipient
Supervisor: Dr. Stephen Scherer (Host: Dr. Howard Lipshitz)
Title: Copy number variation in neurodevelopmental disorders
Time: 2:30PM
Place: Medical Sciences Building, 1 King's College Circle, Room 4171

Tuesday, April 21st

Speaker: Mark Ng
Affiliation: Graduate Student, Department of Molecular Genetics
Supervisor: Dr. Jun Liu
Title: Investigating the role of a natural RecA mutation on BCG vaccine properties
Time: 3PM
Place: Mechanical Engineering Building, 5 King's College Road, Room 102

Speaker: Chantal Magnan
Affiliation: Graduate Student, Department of Molecular Genetics
Supervisor: Dr. Alan Davidson
Title: Characterization of Pseudomonas aeruginosa phage tail appendages
Time: 3PM
Place: Mechanical Engineering Building, 5 King's College Road, Room 102
Seminar Announcement

“Chromosome instability and synthetic lethality in yeast and cancer”

Dr. Phil Hieter, FCAHS, FRSC
Professor, Medical Genetics
Michael Smith Laboratories
Department of Medical Genetics
Department of Biochemistry and Molecular Biology
Genome Science + Technology programs
University of British Columbia

Wednesday, April 8, 2015 - 3:00 pm
Donnelly Centre Red Seminar Room

Abstract:

Mutations that cause chromosome instability (CIN) in pre-cancer cells are recognized to be drivers in cancer initiation and/or progression. These CIN gene mutations also represent genetic vulnerabilities in tumor cells that could be exploited for therapeutic benefit in the treatment of cancer. We have developed a cross-platform cancer drug discovery paradigm that exploits the high throughput genetic and biochemical analyses afforded by yeast and the nematode worm, vertebrate cell cultures to validate therapeutic targets, and biochemical assays to screen for inhibitors of these targets. Our goals are to gain new insights into CIN in cancer and to translate these discoveries into novel cancer treatments.

Host: Dr. Brenda Andrews, PhD, FRSC
A phenomic assessment of subcellular morphology in *Saccharomyces cerevisiae* using synthetic genetic array analysis and high-content screening

Erin Styles  
PhD Candidate  
Department of Molecular Genetics

**Supervisor:** Dr. Brenda Andrews

**Date:** Wednesday April 8\textsuperscript{th}, 2015  
**Time:** 10:00AM  
**Place:** Donnelly Centre Red Seminar Room, 160 College Street

**All faculty and students are encouraged to attend**
Barbara Vivash Award in
Molecular Genetics
Seminar and Award Presentation

2013-2014 Recipient: Dr. Anath Lionel

Copy Number Variation in
Neurodevelopmental Disorders

Rare copy number variants (CNVs) have key roles in the genetic etiologies of different neurodevelopmental conditions such as Autism Spectrum Disorder (ASD), schizophrenia and ADHD. The study of such rare deletions and duplications in the genomes of patients has proven to be a powerful strategy for the rapid identification of novel risk genes. This work features the high resolution microarray CNV analysis of three Canadian cohorts of 1,418 individuals with different neurodevelopmental disorders (ASD, ADHD and schizophrenia). These analyses confirmed regions previously implicated in genetic risk for neurodevelopmental disorders, and also revealed novel CNV loci such as deletions affecting NRXN5 in ASD. Cross-disorder rare CNV comparisons highlighted several shared risk genes including ASTN1/TDRD2 in ASD and ADHD and OR4A11 in ASD and schizophrenia. Follow-up clinical and molecular characterization of these CNVs revealed factors modulating their penetrance including gender and isoform-specific effects. These results provide support for the role of rare CNVs in the genetic etiologies of ASD, ADHD and schizophrenia, provide evidence for shared susceptibility genes for different neuropsychiatric disorders, and identify new risk genes to guide clinical genetic testing as well as the development of molecular therapeutics.

Host: Dr. Howard Lipshitz

Date: Thursday April 16th, 2015
Time: 2:30PM
Place: Medical Sciences Building, Room 4171, 1 King's College Circle
Programmed cell death is intrinsic to yeast gametogenesis

Michael Eastwood
PhD Candidate
Department of Molecular Genetics

Supervisor: Dr. Marc Meneghini

Date: Thursday April 16th, 2015
Time: 10:00AM
Place: Medical Sciences Building, Room 4171
1 King’s College Circle

**All faculty and students are encouraged to attend**
LMP MONDAY SEMINAR SERIES

Perturbation of core processes triggers host response in C. elegans

Emily Troemel, Phd
Associate Professor
Division of Biological Sciences
University of California, San Diego

Monday, April 13, 2015
4:00 p.m. – 5:00 p.m.
Medical Sciences Building, Room 2172
1 King’s College Circle, University of Toronto

Hosted by: Stephen Girardin  stephen.girardin@utoronto.ca

The LMP Motility Seminar Series is a Self-Approved Group Learning Activity (Section 1)
as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada.
Department of Pharmacology and Toxicology
University of Toronto

Ph.D. Exit Seminar

The Role of the Dopamine D1-D2 Receptor Heteromer in Brain Reward Function: Relevance in Depression and Drug Addiction

Maurice Y.F. Shen
Ph.D. Candidate / Dr. Susan George

Thursday, April 30, 2015 - 4:00 PM
Room 4279, Medical Sciences Building
Seminar Notice

Lunenfeld-Tanenbaum Research Institute Seminar Series
Presents:

Patrick Seale, PhD

Assistant Professor of Cell and Developmental Biology, Institute for Diabetes, Obesity and Metabolism, Perelman School of Medicine at the University of Pennsylvania, Smilow Center for Translational Research

Title:
‘Transcriptional regulation of fat cell fate’

Wednesday, April 29, 2015 at 12:00 p.m.

Location:
Mount Sinai Hospital
60 Murray St. Level 3 Conference Rooms
L3-201-202-203*

Host: Dr. Daniel Drucker

*located on the 3rd floor of 60 Murray St. just before the double doors leading into the Cooper Center
** LTRI is a University of Toronto affiliated Research Institute.
SEMINARS
11:30 a.m., FitzGerald Building, 150 College Street, Room 237, University of Toronto

MONDAY, APRIL 06, 2015
Speakers: YONGQIANG WANG
Research Associate, Matrix Dynamics Group, Faculty of Dentistry
Title: Adseverin plays a role in osteoclast differentiation and periodontal disease-mediated bone loss.

MONDAY, APRIL 13, 2015
Speakers: STEPHANIE GOLDBERG
Ph.D. Candidate, Glogauer lab, Matrix Dynamics Group
Faculty of Dentistry
Title: Rac and Filamin A in osteoclast function and osteoclast heterogeneity.

MONDAY, APRIL 20, 2015
Speaker: CHRISTOPHER SPRING
Coordinator Flow Cytometry and Cell Sorting, Research Core Facilities, Keenan Research Centre for Biomedical Science
Title: Flow Cytometry and Sorting.

MONDAY, APRIL 27, 2015
Speaker: CHRISTOPHER MCCULLOCH
Professor, Canada Research Chair (CRC) in Matrix Dynamics, Matrix Dynamics Group, Faculty of Dentistry
Title: Flightless I mediates formation of cell extensions and collagen remodeling.

http://matrixdynamics.ca
Toronto Human Immunology Network presents:

PANEL DISCUSSIONS IN HUMAN IMMUNOLOGY

Robert Vonderheide, MD, DPhil
University of Pennsylvania
Philadelphia, PA

http://www.med.upenn.edu/apps/faculty/index.php/s20000330/p1073

“Who responds to immune therapy and how can we extend its reach?”

All Welcome

Monday, April 13, 2015
5:00 - 6:00 p.m.
Room 7231, Medical Sciences Building
1 King’s College Circle
University of Toronto
Toronto Human Immunology Network presents:

PANEL DISCUSSIONS
IN HUMAN IMMUNOLOGY

Tobias R. Kollman, MD, PhD
Senior Clinician Scientist, CFRI
Associate Professor
Pediatric Infectious & Immunological Diseases
BC Children’s Hospital & University of British Columbia
Vancouver, BC

http://cfri.ca/kollmann-lab
http://cfri.ca/our-research/researchers/results/Details/tobias-r-kollmann

“tba”

All Welcome
Monday, April 27, 2015
5:00 - 6:00 p.m.
Room 7231, Medical Sciences Building
1 King’s College Circle
University of Toronto