



Biochemistry 530
Graduate Student Seminar Schedule 2022-2023

Friday's, 11:50 am to 1:00 pm
IRC 1, in-person
Exception: *LSC 3 - 1.5 hours classes
11:50 am to 1:30 pm

Chairs: Dr. Lindsay Eltis, Robert Molday, and Ethan Greenblatt

Course regulations:

- Set-up time: 11:50 am -12:00 pm. Presentations will commence at 12:00 and will be no longer than 18 minutes in duration, followed by 5 minutes for questions.
- The presentation title emailed to Doris **a week before** the scheduled presentation date.
- **ATTENDANCE IS MANDATORY FOR ALL GRADUATE STUDENTS, ALL YEARS.**

Third Year - 11 PhD students - Zbarsky Prize Competitors

Date	Speaker	Supervisor	Presentation Title
9-Sep-22	First Class - Course Summary with instructors: Drs. L. Eltis, and R. Molday		
*16-Sept-22	Tomas Pelletier	Dr. Calvin Yip	Staph Strikes Back, Structural and Functional Explorations of the <i>S. aureus</i> T7SSb
	Hazel Jieying Cui	Dr. Sheila Teves	Rescheduled
	Aleksander Lazarski	Dr. Natalie Strynadka	Staph Strikes Back, Structural and Functional Explorations of the <i>S. aureus</i> T7SSb
*23-Sept-22	Keeley Hewton	Dr. Seth Parker	Amino acid exchange factors during uptake of BCAAs in cells
	Karlie Edwards	Dr. Michael Kobor	Epigenetic drivers of immune system development and function
	Ayse Erdogan	Dr. Nobu Tokuriki	Neutral drift and the generation of phenotypic variation in an antibiotic resistance enzyme population
30-Sep-22	No Seminar - September 30, National Day for Truth and Reconciliation		
*7-Oct-22	Madelaine Robertson	Drs. Christian Kastrup & Pieter Cullis	Optimizing mRNA-UTRs for Exogenous Protein Expression in Platelets
	Spencer Cholak	Dr. Sriram Subramaniam	Investigating Allosteric Modulation of RyR1 to Inform Therapeutic Design
	Buda, Karol	Dr. Nobu Tokuriki	History is Written by the Victors: The Evolution of Ancestral Proteins
*14-Oct-22	Colton Strong	Drs. Christian Kastrup & Dana Devine	Developing engineered platelets as a next-generation cell therapy for hemorrhage control
	Wesley Mosimann	Dr. Natalie Strynadka	BlaR1: The Master Regulator of Antibiotic Resistance in <i>Staphylococcus Aureus</i>
	Hazel Jieying Cui	Dr. Sheila Teves	Diversified Role of TBP in the Establishment of Complexity in Eukaryotic Transcription Initiation Systems

Second Year - 1 MD/PhD, 6 PhD & 14 MSc Students

*21-Oct-22	Viktor Slat	Drs. Stephen Rader & Leonard Foster	Cancelled
	Abisola Kehinde	Dr. Seth Parker	metabolic consequences of the alanine depletion in cancer cells
	Helena Sverak	Dr. Natalie Strynadka	The tour de AmpG; Understanding regulation of peptidoglycan recycling and its role in β -lactam resistance
*28-Oct-22	Shaun Peters	Dr. Natalie Strynadka	The ABC's of cell division: Structural Pursuit of the FtsEX Divisome complex
	Victoria Palmgren	Dr. Robert Molday	Base editing for the treatment of LCA12
	Kha Nguyen	Dr. Calvin Yip	Investigating the structure and function of an autophagic human SNARE complex.
4-Nov-22	Armando Palacios Chaparra	Dr. Natalie Strynadka	From spore to superbug: Structural characterization of <i>Clostridioides difficile</i> 's sporulation-specific peptidoglycan synthase
	Francesca Ferraresso	Dr. Christian Kastrup	Developing gene therapies to alleviate thrombosis and obesity
11-Nov-22	No Seminar - Nov 9 - 11, Midterm Break & Remembrance Day		
18-Nov-22	Steven Jiang	Dr. Hugh Kim	Platelet Filamin A: From Thromboxane A2 Generation to Rheumatoid Arthritis
	Hannah Shariati	Dr. Calvin Yip	Characterization of a human autophagy tethering factor
*25-Nov-22	Dhiraj Mannar	Dr. Sriram Subramaniam	Structural Diversity of Human VCP/p97 Complexes
	Tess Osborne	Dr. Eric Jan	Searching for Viral Inhibitors: Development of a High-Throughput Screen
	Felix Hong	Dr. Hugh Kim	The Role of Filamin A in the Platelet Shape Change Reaction
02-Dec-22	Nicolas Pereyra Dos Santos	Dr. Dana Devine	Modified Platelet Storage Devices to Improve Quality During Storage
	Aastha Dalal	Dr. Thibault Mayor	Rescheduled

*9-Dec-22	Kaicheng Ma	Dr. Ethan Greenblatt	Understanding the role of translational control in oocyte function
	Christina Young	Dr. Eric Jan	Investigating Novel IRESs for Viral Translation Hijacking
	Aastha Dalal	Dr. Thibault Mayor	Identifying the key players involved in cytosolic protein quality control
16-Dec-22	Morgan Towriss	Drs. Annie Ciernia & Brian MacVicar	Rescheduled
	Al Rohet Hossain	Dr. Ethan Greenblatt	Using <i>Drosophila</i> Oocytes to Study the Translation of Stored mRNAs

Second Year continue - 14 MSc Students

*2023-01-06	Yilun Chen	Dr. Franck Duong	Investigating a new method for making multimeric nanobody
	Jonah Lu	Drs. Vivien Measday & LeAnn Howe	Investigating the effect of near identical histone genes on Ty1 retrotransposon insertion
	Morgan Towriss	Drs. Annie Ciernia & Brian MacVicar	The role of cellular metabolic flux in microglial memory and disease

First Year - 3 PhD & 21 MSc students

13-Jan-23	Jeff Seog Jae Yoon	Dr. Alice Mui	Understanding the anti-inflammatory pathway of Interleukin-10
	Sevan Gholipour	Dr. Nobu Tokuriki	Comprehensive characterization of β -lactamase resistome
20-Jan-23	Danisha Johal	Dr. Seth Parker	Targeting alanine uptake as a therapeutic strategy against pancreatic cancer
	Elijah Hoy	Dr. Calvin Yip	Investigating the interactome of a key autophagy tethering factor
27-Jan-23	Matthew Thibodeau	Dr. Natalie Strynadka	<i>C. difficile</i> antibiotic signalling
	Rupinder Jandu	Dr. Franck Duong	Investigating ligand interactions on the membrane proteome through thermal proteome profiling
3-Feb-23	Sana Ahmed	Dr. Sriram Subramaniam	Visualizing cereblon and p97 with molecular glues for targeted protein degradation
	Steve Harland	Dr. Robert Molday	Investigating The Structural Organization of Photoreceptors and the Role of Peripherin2 and GARP2
10-Feb-23	Lucy Shuxin Chi	Dr. Leonard Foster	A Journey on Single-Cell Proteomics (SCP)
	William Stewart	Dr. Harry Brumer	Characterizing the proteins involved in xyloglucan utilization by <i>Prevotella copri</i> , a key member of the human gut microbiome
17-Feb-23	Katie Danielson	Dr. Ethan Greenblatt	Rescheduled
	Zehua Shangguan	Dr. Filip Van Petegrem	Junctophilin: Bridging the membranes
24-Feb-23	No Seminar - Reading Week - February 20 - 24		
3-Mar-23	Xingyu (Cara) Fan	Dr. Nobu Tokuriki	Decoding the evolutionary puzzle of enzyme function switch: the case of bluB, a Vitamin B12 lower ligand synthase
	Keith Tidey	Dr. Sriram Subramaniam	SARS-CoV-2: Exploration of the XBB1.5 Variant
	Katie Danielson	Dr. Ethan Greenblatt	Is ribosomal damage a fundamental driver of oocyte aging?
10-Mar-23	Alexandria Shaw	Drs. Calvin Yip & John Burke	Investigating the regulation of a human lipid kinase
	Lucy Song	Dr. Leonard Foster	Validation of Immunopeptides Presented by Major Histocompatibility Complexes Across Various Alleles
17-Mar-23	Tessa Smith	Dr. Natalie Strynadka	The Injectosome: Threading the Needle to Virulence Therapeutics
	Shriya Kamat	Dr. Thibault Mayor	Characterizing the role(s) of an S/T containing co-chaperone protein
24-Mar-23	Jessica Koe	Dr. Seth Parker	Elucidating how post-translational modifications regulate SNAT2 localization
	Kimberly Wong	Dr. Nobu Tokuriki	A glimpse into the evolution of metabolic pathways: the case of Phosphotriesterase (PTE)
31-Mar-23	Kai Xiao	Drs. Nobu Tokuriki & Steve Plotkin	cancelled
	Subash Chapagain	Dr. Eric Jan	How do they do it? Investigating the novel viral internal ribosome entry sites (IRESs)
7-Apr-23	No Seminar - Good Friday, April 7, 2023		
14-Apr-23	Henry Young	Dr. Sheila Teves	TATA-Binding Protein: Explore Functional Dynamics Through Two-Species Model
21-Apr-23			

