



**Biochemistry 530**  
**Graduate Student Seminar Schedule 2023-2024**

**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, in-person**

**Chairs: Dr. Lindsay Eltis 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 titles emailed to Doris **a week before** the scheduled presentation date.
- **ATTENDANCE IS MANDATORY FOR ALL GRADUATE STUDENTS, ALL YEARS.**

**Third Year - 13 PhD students - Zbarsky Prize Competitors; Second Year - 1 PhD**

Date	Speaker	Supervisor	Presentation Title
8-Sep-23	First Class - Course Summary with instructors: Drs. L Eltis, and E. Greenblatt		
15-Sep-23	Francesca Ferraresto	Dr. Christian Kastrup	Developing RNA Therapies for Bleeding Disorders
	Abisola Kehinde	Dr. Seth Parker	Alanine, Cancer, Big Deal?
22-Sep-23	Victoria Palmgren	Dr. Robert Molday	Base editing for the treatment of inherited retinal diseases
	Kaicheng Ma	Dr. Ethan Greenblatt	Understanding the Role of Translational Control in Oocyte Function
29-Sep-23	Hannah Shariati	Dr. Calvin Yip	Trash Talk: Exploring autophagosome-lysosome fusion fidelity
	Shaun Peters	Dr. Natalie Strynadka	Activator-induced conformational changes of cytokinetic <i>Escherichia coli</i> Amidase A
6-Oct-23	Armando Palacios Chaparra	Dr. Natalie Strynadka	<b>There are no mistakes, only happy accidents:</b> Native purification of <i>Clostridioides difficile</i> nanomachines
	Morgan Towriss	Drs. Annie Ciernia & Brian MacVicar	Understanding Microglial Memory in Health and Disease
*13-Oct-23	Steven Jiang	Dr. Hugh Kim	The role of Filamin A in platelet thromboxane A2 secretion
	Kha Nguyen	Dr. Calvin Yip	Structural investigation of a two-timing Rab regulator
	Nicolas Pereyra Dos Santos	Kizhakkedathu	Next-Generation Materials for Blood Transfusion and Storage
*20-Oct-23	Helena Sverak	Dr. Natalie Strynadka	Breaking the Mold: Probing Peptidoglycan Recycling as a Novel Antibiotic Target
	Al Rohet Hossain	Dr. Ethan Greenblatt	The Fly's Guide to Translation: <i>Drosophila</i> Oocytes in Action
	Jeff Seog Jae Yoon	Dr. Alice Mui	Anti-inflammatory pathway of Interleukin-10: SHIP1 and microRNA

**Second Year - 2 PhD & 21 MSc Students**

27-Oct-23	Sevan Gholipour	Dr. Nobu Tokuriki	Comprehensive characterization of $\beta$ -lactamase resistome
	Subash Chapagain	Dr. Eric Jan	Of form and essence: Investigating the novel viral internal ribosome entry sites (IRESs)
3-Nov-23	Alexandria Shaw	Drs. Calvin Yip & John Burke	Investigating the regulation of a human lipid kinase
	Keith Tidey	Dr. Sriram Subramaniam	SARS-CoV-2: Kraken the Code
10-Nov-23	Lucy Song	Dr. Leonard Foster	Investigation of HLAs and Their Presented Immunopeptides for Susceptibility to Celiac Disease
	William Stewart	Dr. Harry Brumer	Systems-based characterization of <i>Prevotella copri</i> xyloglucan metabolism and optimization of a dietary fiber mimetic system
	No Seminar - Midterm Break November 13 -15		
17-Nov-23	Tessa Smith	Dr. Natalie Strynadka	Powering a Nanomachine: the Type 3 Secretion System
	Steve Harland	Dr. Robert Molday	Shedding light on photoreceptors: The nanodisc reconstitution of tetraspanin PRPH2
24-Nov-23	Shriya Kamat	Dr. Thibault Mayor	Unraveling the physiological role(s) of a serine-threonine containing co-chaperone
	Elijah Hoy	Dr. Calvin Yip	Exploring how EPG5 exerts spatial and temporal control over autophagy
*01-Dec-23	Jessica Koe	Dr. Seth Parker	Protein Makeover: Investigating the role of N-glycosylation in regulating SNAT2 stability and function
	Sana Ahmed	Dr. Sriram Subramaniam	Visualizing degraders for the targeted protein degradation of p97
	Matthew Thibodeau	Dr. Natalie Strynadka	C. difficile antibiotic signaling

08-Dec-23	Zehua Shangguan	Dr. Filip Van Petegem	A comprehensive characterization on the Junctophilin related mechanism in muscle Excitation-Contraction coupling
	Kimberly Wong	Dr. Nobu Tokuriki	Bridging the Gap between Organism-Enzyme Phenotype: the case of Phosphotriesterase in Paraoxon degradation

**Second Year continue - 21 MSc students**

05-Jan-24	Xingyu (Cara) Fan	Dr. Nobu Tokuriki	Evolution of a cannibalistic enzyme from a non-catalytic ancestor
	Danisha Johal	Dr. Seth Parker	Alanine's Tale in the Tumour: A pancreatic cancer metabolic fuel
12-Jan-24	Rupinder Jandu	Dr. Franck Duong	Investigating ligand interactions on the membrane proteome through thermal proteome profiling
	Lucy Shuxin Chi	Dr. Leonard Foster	Single-cell proteomics: refine, enhance, and apply
19-Jan-24	Katie Danielson	Dr. Ethan Greenblatt	Is ribosomal damage a fundamental driver of oocyte aging?
	Henry Young	Dr. Sheila Teves	Conservation and divergence of TBP and its paralogs throughout evolution

**First Year - 16 MSc students and 1 PhD**

26-Jan-24	Adesh Baral	Dr. Eric Jan	Proteolytic cleavage of 14-3-3ε and its effects on antiviral response
	Yuming Shi	Dr. Leonard Foster	BeeCSI: Omics Tools for Assessing Honeybee Health
2-Feb-24	Vivien Dang	Dr. Annie Ciernia	
	Dongkyu Lee	Dr. Nobu Tokuriki	
9-Feb-24	Yoona Chey	Dr. Carol Chen	
	Moar Arad	Dr. Leonard Foster	
16-Feb-24	Catherine Gong	Dr. Eric Jan	
	Marvin Bader	Dr. Filip van Petegem	
23-Feb-24	No Seminar - Reading Week - February 19 - 23		
1-Mar-24	Iris Shen	Dr. Eric Jan	
	Olivier Hinse	Dr. Dieter Bromme	
08-Mar-24	Emily Yeh	Dr. Carol Chen	
	Vincent Halim	Drs. Eric Jan & Sarah Hedtrich	
15-Mar-24	Adam Voss	Dr. Natalie Strynadka	
	John Ni	Drs. Sriram Subramaniam & Annie Ciernia	
22-Mar-24	Sally Cheon	Dr. Nobu Tokuriki	
	Alexander Wong	Dr. Sheila Teves	
	Sahil Chandhock	Dr. Thbault Mayor	
29-Mar-24	No Seminar - Good Friday, March 29, 2024		
05-Apr-24			
12-Apr-24			