Biochemistry 530
Graduate Student Seminar Schedule 2021-2022

Fridays, 11:50 am to 1:00 pm
IRC 1, in-person

Chairs: Dr. Lindsay Eltis & Robert Molday
Course regulations:

- Set-up time: 11:50 am -12:00 pm. Presentations will commence at 12:00 and will be ~25 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.**

Second Year 1 MSc Student, Third Year - 7 PhD students - Zbarsky Prize Competitors

Date	Speaker	Supervisor	Presentation Title
10-Sep-21	First Class - Course Summary with instructors: Drs. L Eltis, and R. Molday		
17-Sep-21	Colton Strong	Drs. Christian Kastrup & Dana Devine	Engineering platelet coagulability for controlling hemorrhage
	Eli Matsell	Dr. Robert Molday	rescheduled
24-Sep-21	Abigail Chapman	Dr. Leonard Foster	Fertility costs of cryptic viral infections in honey bee queens
	Divya Kriti	Dr. Corey Nislow	A systematic strategy to link human genetic variations to drug response
1-Oct-21	Heather Baker	Dr. Thibault Mayor	Identifying key E3 ubiquitin ligases that target disease associated mutant proteins for degradation
	Rachel Price	Dr. Sheila Teves	Identity Crisis: deciphering stem cell identity maintenance via transcription factors bookmarking
8-Oct-21	Brenna Hay	Dr. Foster & Jan	Investigating translational regulation of the interferon response
	Calem Kenward	Dr. Natalie Strynadka	Mapping the polyprotein cut sites of SARS-CoV-2 Main Protease

Second Year - 1 PhD & 19 MSc Students

15-Oct-21	Eli Matsell	Dr. Robert Molday	Investigating the structure-function relationship of the P4-ATPase ATP8A2
	Madelaine Robertson	Drs. Christian Kastrup & Pieter Cullis	RNA: The Key to Improving Platelet Transfusions
22-Oct-21	Karlie Edwards	Dr. Michael Kobor	Epigenetic drivers of immune system development and function
	Laura Meleady	Dr. Annie Ciernia	Investigating the Role of Histone Deacetylase 3 (Hdac3) in Microglia
29-Oct-21	Garrett Strawn	Dr. Thibault Mayor	High throughput screen for improved recombinant laccase production in yeast
	Ashley Yang	Dr. Filip Van Petegem	Crystallographic insights into the junctophilin – voltage-gated calcium channel interaction
5-Nov-21	Spencer Cholak	Dr. Sriram Subramaniam	Investigating Allosteric Modulation of RyR1 to Inform Therapeutic Design
	Ayse Erdogan	Dr. Nobu Tokuriki	Exploring the Evolutionary Dynamics Behind the Emergence and Maintenance of Phenotypic and Genotypic Diversity of Metallo β-Lactamases
12-Nov-21	No Seminar - Mid-Term Break November 11 - 12		
19-Nov-21	Karol Buda	Dr. Nobu Tokuriki	Epistasis Dictates Evolutionary Outcomes of Ancestral Proteins
	Amanda Rahardjo	Drs. Eric Jan & James Johnson	Role of eIF2A in beta cells and diabetes
26-Nov-21	Tomas Pelletier	Dr. Calvin Yip	Understanding the role of the human HOPS complex in autophagosome-lysosome fusion
	Ellia Gao	Dr. LeAnn Howe	Classification of factors involved in cryptic transcription suppression using a *FLO8:* GFP Reporter
03-Dec-21	Hazel Cui	Dr. Sheila Teves	Diversified Role of TBP in the Establishment of Complexity in Eukaryotic Transcription Initiation Systems
	Keeley Hewton	Dr. Seth Parker	Visualizing Amino Acid Transport by Fluorescent Assay
10-Dec-21	Yihang Chen	Dr. Eric Jan	postponed
	Wesley Mosimann	Dr. Natalie Strynadka	A Structural Exploration of the *Clostridioides difficile* Sporulation Channel
17-Dec-21			

Second Year - 1 PhD & 19 MSc students, continue

07-Jan-22	Aleksander Lazarski	Dr. Natalie Strynadka	Structure Based Elucidation of S. aureus Weapons for Bacterial Warfare
	Maggie Ling	Dr. LeAnn Howe	Expressing MeCP2 in yeast
14-Jan-22	Rhonda Thygesen	Dr. Leonard Foster	The Blueberries and The Bees: Assessing Honey Bee Health Stressors Using Proteomics
	Amritpal Johal	Dr. Seth Parker	Identifying transporter inhibitors to limit lysine availability for lysine catabolic disorders

First Year - 1 MD/PhD, 6 PhD & 14 MSc students

21-Jan-22	Dhiraj Mannar	Dr. Sriram Subramaniam	Emerging SARS-CoV-2 Spike Proteins: Structure, Function, and Neutralization
	Abisola Kehinde	Dr. Seth Parker	Tracking Cellular and Metabolic Responses to Alanine Limitation in Tumours.
28-Jan-22	Viktor Slat	Drs. Stephen Rader & Leonard Foster	A comparative exploration of the splicing landscape in two unicellular red algae
	Helena Sverak	Dr. Natalie Strynadka	Structural characterization of *Klebsiella pneumonia* Carbapenemase inhibition
4-Feb-22	Kaicheng Ma	Dr. Ethan Greenblatt	Using Drosophila oocytes to gain insights into mechanism of an autism disorder
	Francesca Ferraresso	Dr. Christian Kastrup	Developing gene therapies to modulate PAI-1 to alleviate thrombosis
11-Feb-22	Steven Jiang	Dr. Hugh Kim	The proinflammatory role of platelets in Rheumatoid arthritis
	Hannah Shariati	Dr. Calvin Yip	Characterization of Vici syndrome mutations on the autophagy-related factor EPG5 and its function
18-Feb-22	Jonah Lu	Drs. Vivien Measday & LeAnn Howe	Investigating the role of chromatin on targeting Ty1 retrotransposon insertion
	Tess Osborne	Dr. Eric Jan	Many Yeast Make for Light Work: Development of a High-Throughput Rapid Yeast Screen
25-Feb-22	No Seminar - Reading Week - February 21-25		
4-Mar-22	Kha Nguyen	Dr. Calvin Yip	Investigating the structure of the tRNA modifying yeast Elongator complex
	Morgan Towriss	Drs. Annie Ciernia & Brian MacVicar	Metabolism-Epigenetic Crosstalk in Microglial Polarization and Neurodegenerative Disease
11-Mar-22	Yilun Chen	Dr. Franck Duong	Investigating a new method for making multivalent nanobodies
	Christina Young	Dr. Eric Jan	A noncanonical in- and out-of-frame translation mechanism
18-Mar-22	Nicolas Pereyra Dos Santos	Dr. Dana Devine	Modified Platelet Storage Devices to Improve Quality During Storage
	Aastha Dalal	Dr. Thibault Mayor	Identifying key E3 ubiquitin ligases in disease-associated cytosolic protein degradation
25-Mar-22	Felix Hong	Dr. Hugh Kim	Investigating the role of Filamin A in PAR-1 signaling
	Shaun Peters	Dr. Natalie Strynadka	Structural studies of PBP1b: An antibiotic target
1-Apr-22	Al Rohet Hossain	Dr. Ethan Greenblatt	Using *Drosophila* Oocytes to Study the Translation of Stored mRNAs
	Victoria Palmgren	Dr. Robert Molday	Investigation of base editing for the treatment of LCA12
08-Apr-22	Yihang Chen	Dr. Eric Jan	A Pretty sly for a white fly: Investigations of A Novel viral internal ribosome entry site
	Armando Palacios Chaparra	Dr. Natalie Strynadka	Targeting Sporulation: Structure-based Approach for Developing Novel Antibiotics Against Clostridioides difficile
15-Apr-22	No Seminar - Good Friday, April 15, 2022		
22-Apr-22			