BIOM 502: Molecular Basis of Disease

Course Directors: Dr. Jonathan Katz, jpkatz@pennmedicine.upenn.edu

Dr. Jennifer Punt, punt@vet.upenn.edu

Course Coordinator: Candace Cain, Candace.Cain@pennmedicine.upenn.edu

Tuesdays and Thursdays, 8:30–10:00am

Location: Zoom on 1/13-1/20 and 3/24; 251 BRB on all other dates

Date	Speaker	Topic	Student Speaker
1/13/2022	Jonathan P. Katz, MD, and Jenni Punt, VMD, PhD	Course introduction	n/a
1/18/2022	Carolyn Cambor	Intro to the Pathology of Human Disease	n/a
1/20/2022	Paul Axelson	Intro to Infectious Diseases	n/a
1/25/2022	Laurel Redding	Intro to Epidemiology	n/a
1/27/2022	Teddy Drivas	Intro to Human Disease Genetics	n/a
2/1/2022	Paul Planet	Cystic Fibrosis	Adam Ziada
2/3/2022	Scott Hensley	Influenza Vaccines	Shruthi Murali
2/8/2022	Ken Shindler	Optic Neuritis	Mitchell Conery
2/10/2022	Steve Scherer	Genetic Neuropathies	Ellen Lavorando
2/15/2022	Tara Mitchell	Melanoma	Madelynn Whittaker
2/17/2022	Montserrat Anguera	Lupus	Carris Borland
2/22/2022	Suraiya Haroon	Mitochondrial Disorders	Alaina Wojciechowski
2/24/2022	Ken Margulies	Heart Failure	Chris Choe
3/1/2022	Alice Chen-Plotkin	Parkinson's Disease	Aradhana Kasimsetty
3/3/2022	Ben Stanger	Pancreatic Cancer	Zarin Tabassum
3/8/2022	Phil Scott	Leishmaniasis	Brianna Hill-Payne
3/10/2022	No class - hold in case of reschedule/snow day		
3/15/2022	David Irwin	Dementia	Carolann Espy
3/17/2022	No class - hold in case of reschedule/snow day		
3/22/2022	Mike Rickels	Type 1 Diabetes	Deeksha Hegde
3/24/2022	Rose Nolen-Walston	Nematode Infections	Junyoung Shin
3/29/2022	No class - hold in case of reschedule/snow day		
3/31/2022	Katalin Susztak	Chronic Kidney Disease Development	Adam Ziada and Shruthi Murali
4/5/2022	Ed Behrens	Langerhans Cell Histiocytosis	Mitchell Conery and Ellen Lavorando
4/7/2022	Jim Hoxie	HIV	Madelynn Whittaker and Carris Borland
4/12/2022	Dan Rader	Lipoprotein Disorders	Alaina Wojciechowski and Chris Choe
4/14/2022	No class - hold in case of reschedule/snow day		
4/19/2022	Gary Wu	IBD	Aradhana Kasimsetty and Zarin Tabassum
4/21/2022	Amy Clark	Breast Cancer	Brianna Hill-Payne and Carolann Espy
4/26/2022	Roddy O'Connor	CAR T-Cells	Deeksha Hegde and Junyoung Shin

Presentation dates have been randomly assigned. If you know you will be absent from class on your assigned presentation date(s), please contact Candace Cain immediately.

ASSESSMENT:

There will be a total of 100 points awarded for this class.

Class Participation: 35 points total.

- Professionalism: 10 points. Includes attendance, punctuality, and advance notification of any expected absences.
- Active Participation: 25 points. This is a significant component of your grade, so please do participate. Ask questions that show us you read the material before class.

Class Presentations and Discussions: 45 points total.

The course is designed to introduce you to a broad array of human disease conditions. The visiting faculty are typically MDs with active clinical appointments, who will introduce the clinical aspects of the disease over 30-40 minutes. This will be followed by an individual or joint student presentation (20-30 minutes) on a translational or basic research paper addressing some aspect of the disease mechanism, diagnosis, or therapy. The remainder of the time will be spent in group discussion of the paper, focusing specifically gaps that need to be and could be filled by collaborating biomedical researchers. Students should contact the faculty ahead of their presentation to discuss the topic and paper to be presented.

Presentations and discussions will be scored on the basis of the clarity of your talk and quality of your slides, your ability to engage the audience, and a demonstration that you have mastered the subject matter by your ability to answer questions from the audience. The individual presentations will be worth 25 points; the joint presentations will be worth 20 points.

Post-Class Evaluations: 20 points.

After each class you will be required to submit a brief (3-4 sentences) evaluation of the faculty speaker via Canvas, focusing on 1) quality of the presentation, 2) the relevance to translational research, and 3) the faculty speaker's engagement with the students. You may later use these to help complete your course evaluations. Note that feedback will later be shared anonymously with the speakers after the conclusion of the course.