

BIOM 502: Molecular Basis of Disease

Course Directors: Dr. Jonathan Katz, jp Katz@pen nmedicine.upenn.edu

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

Course Coordinator: Candace Cain, Candace.Cain@pen nmedicine.upenn.edu

Tuesdays and Thursdays, 8:30–10:00am

Location: 251 BRB

Date	Speaker	Topic	Student Speaker
1/12/2023	Jonathan P. Katz, MD, and Jenni Punt, VMD, PhD	Course introduction	n/a
1/17/2023	Laurel Redding	Intro to Epidemiology	n/a
1/19/2023	Mike Cancro	Intro to Immunology	n/a
1/24/2023	Paul Axelsen	Intro to Infectious Diseases	n/a
1/26/2023	Carolyn Cambor	Intro to the Pathology of Human Disease	n/a
1/31/2023	Teddy Drivas	Intro to Human Disease Genetics	n/a
2/2/2023	Steve Scherer	Genetic Neuropathies	Mark Bray
2/7/2023	Paul Planet	Cystic Fibrosis	Franklin Staback Rodríguez
2/9/2023	Scott Hensley	Influenza Vaccines	Kayla Purdy
2/14/2023	Ken Shindler	Optic Neuritis	Nicholas Cerda
2/16/2023	Alice Chen-Plotkin	Parkinson's Disease	Ted Williamson
2/21/2023	Ken Margulies	Heart Failure	Abigail Ridler
2/23/2023	Ed Behrens	Langerhans Cell Histiocytosis	Mark Dittmar
2/28/2023	Tara Mitchell	Melanoma	Joseph Gallegos
3/2/2023	Montserrat Anguera	Lupus	Emily Han
3/7/2023	No class – SPRING BREAK		
3/9/2023	No class – SPRING BREAK		
3/14/2023	David Irwin	Dementia	Lauren Testa
3/16/2023	Ben Stanger	Pancreatic Cancer	Bormeh Faryean
3/21/2023	Suraiya Haroon	Mitochondrial Disorders	Alexis Garófalo
3/23/2023	Mike Rickels	Type 1 Diabetes	Anastasia Lucas
3/28/2023	Katalin Susztak	Chronic Kidney Disease Development	Tiffany Wu
3/30/2023	Rose Nolen-Walston	Nematode Infections	Mark Bray & Franklin Staback Rodríguez
4/4/2023	No class – HOLD IN CASE OF RESCHEDULE		
4/6/2023	Roddy O'Connor	CAR T-Cells	Kayla Purdy & Nicholas Cerda
4/11/2023	Phil Scott	Leishmaniasis	Ted Williamson & Abigail Ridler
4/13/2023	David Merrick	Obesity	Mark Dittmar & Joseph Gallegos
4/18/2023	Vincent Lo Re	HIV & Viral Hepatitis	Emily Han & Lauren Testa
4/20/2023	Amy Clark	Breast Cancer	Bormeh Faryean & Alexis Garófalo
4/25/2023	Gary Wu	IBD	Anastasia Lucas & Tiffany Wu

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.