

BIOM 502: Molecular Basis of Disease

Course Directors: Dr. Jonathan Katz, jp Katz@penmedicine.upenn.edu; Dr. Jennifer Punt, punt@vet.upenn.edu

Course Coordinator: Anne-Cara Apple, annecara@penmedicine.upenn.edu

Tuesdays and Thursdays, 9–10:30am

Location: Zoom

Date	Speaker	Topic	Student Speaker
1/21/2021	Jonathan P. Katz, MD, and Jenni Punt, VMD, PhD	Course introduction	n/a
1/26/2021	Paul Axelson	Intro to Infectious Diseases	n/a
1/28/2021	Carolyn Cambor	Intro to Pathology of Human Disease	n/a
2/2/2021	Teddy Drivas	Intro to Human Disease Genetics	n/a
2/4/2021	Meena Bewtra	Intro to Epidemiology	n/a
2/9/2021	Tara Mitchell	Melanoma	Chelsea Thorsheim
2/11/2021	Paul Planet	Cystic Fibrosis	Rachel Braun
2/16/2021	Kenneth Shindler	Optic Neuritis	Nils Wellhausen
2/18/2021	Steve Scherer	Genetic Neuropathies	Jayne Nordin
2/23/2021	Suraiya Haroon	Mitochondrial Disorders	Gabrielle Blizzard
2/25/2021	Ken Margulies	Heart Failure	Johnathan Wong
3/2/2021	Alice Chen-Plotkin	Parkinson's Disease	Siera Rosen
3/4/2021	Ben Stanger	Pancreatic Cancer	Nohelly Derosiers
3/9/2021	Phil Scott	Leishmaniasis	Christina Brown
3/11/2021	Scott Hensley	Influenza Vaccines	Ricky Brathwaite
3/16/2021	Mike Rickels	Type 1 Diabetes	Caitlin Hopkins
3/18/2021	Murray Grossman	Dementia	Nicholas Palmer
3/23/2021	Jim Hoxie	HIV	Michael Zaleski
3/25/2021	Rose Nolen-Walston	Nematode Infections	Julia Noll
3/30/2021	No class – University Day of Engagement		
4/1/2021	Katalin Susztak	Chronic Kidney Disease Development	Chelsea Thorsheim and Rachel Braun
4/6/2021	Ed Behrens	Langerhans Cell Histiocytosis	Nils Wellhausen and Jayme Nordin
4/8/2021	Dan Rader	Lipoprotein Disorders	Gabrielle Blizzard and Johnathan Wong
4/13/2021	Gary Wu	IBD	Siera Rosen and Nohelly Derosiers
4/15/2021	Roddy O'Connor	CAR T-Cells	Christina Brown and Ricky Brathwaite
4/20/2021	Amy Clark	Breast Cancer	Caitlin Hopkins and Nicholas Palmer
4/22/2021	Michael Povelones	Malaria	Michael Zaleski and Julia Noll

4/27/2021	No class – hold in case of reschedule
4/29/2021	No class – hold in case of reschedule

Presentation dates have been randomly assigned. If you know you will be absent from class on your assigned presentation date(s), please contact Anne-Cara Apple 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.