# **BIOM 502: Molecular Basis of Disease**

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

Dr. Jennifer Punt, <a href="mailto:punt@vet.upenn.edu">punt@vet.upenn.edu</a>

Course Coordinator: Candace Cain, <a href="mailto:Candace.Cain@pennmedicine.upenn.edu">Candace.Cain@pennmedicine.upenn.edu</a>

TA: Carolann Espy, Carolann.Espy@Pennmedicine.upenn.edu

Tuesdays and Thursdays, 8:30-10:00am

Location: 251 BRB

Date	Speaker	Topic	Student Speaker
	Jonathan P. Katz, MD,		
	and Jenni Punt, VMD,	Course introduction	
1/18/2024	PhD		n/a
1/23/2024	Teddy Drivas	Intro to Human Disease Genetics	n/a
1/25/2024	Laurel Redding	Intro to Clinical Epidemiology	n/a
1/30/2024	Shafinaz Akhter	Intro to Infectious Diseases	n/a
2/1/2024	Amy Durham	Intro to Pathology of Human Disease	n/a
2/6/2024	Mike Cancro	Intro to Immunology	n/a
2/8/2024	Ken Margulies	Heart Failure	
2/13/2024	Ken Shindler	Optic Neuritis	
2/15/2024	Steve Scherer	Genetic Neuropathies	
2/20/2024	Gary Wu	IBD	
2/22/2024	Alice Chen-Plotkin	Parkinson's Disease	
2/27/2024	Ed Behrens	Langerhans Cell Histiocytosis	
2/29/2024	Scott Hensley	Influenza Vaccines	
3/5/2024	No class – SPRING BREAK		
3/7/2024	No class – SPRING BREAK		
3/12/2024	Tara Mitchell	Melanoma	
3/14/2024	No class – HOLD IN CASE OF RESCHEDULE		
3/19/2024	<u>David Irwin</u>	Dementia	
3/21/2024	<u>Katalin Susztak</u>	Chronic Kidney Disease Development	
3/26/2024	Mike Rickels	Type 1 Diabetes	
3/28/2024	Ben Stanger	Pancreatic Cancer	
4/2/2024	<u>Phil Scott</u>	Leishmaniasis	
4/4/2024	<u>Suraiya Haroon</u>	Mitochondrial Disorders	
4/9/2024	Rose Nolen-Walston	Nematode Infections	
4/11/2024	Roddy O'Connor	CAR T-cells	
4/16/2024	<u>Paul Planet</u>	Cystic Fibrosis	
4/18/2024	Amy Clark	Breast Cancer	
4/23/2024	Montserrat Anguera	Lupus	
4/25/2024	<u>David Merrick</u>	Obesity	
4/30/2024	<u>Vincent Lo Re</u>	HIV/Viral Hepatitis	

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.

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## **ASSESSMENT:**

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

## Class Participation: 35 points total.

- <u>Professionalism:</u> 10 points. Includes attendance, punctuality, and advance notification of any expected absences.
- <u>Active Participation:</u> 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.

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