# **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>

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	
1/12/2023	PhD		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	<u>Paul Axelsen</u>	Intro to Infectious Diseases	n/a
		Intro to the Pathology of Human	
1/26/2023	<u>Carolyn Cambor</u>	Disease	n/a
1/31/2023	<u>Teddy Drivas</u>	Intro to Human Disease Genetics	n/a
2/2/2023	Steve Scherer	Genetic Neuropathies	
2/7/2023	<u>Paul Planet</u>	Cystic Fibrosis	
2/9/2023	Scott Hensley	Influenza Vaccines	
2/14/2023	<u>Ken Shindler</u>	Optic Neuritis	
2/16/2023	Alice Chen-Plotkin	Parkinson's Disease	
2/21/2023	Ken Margulies	Heart Failure	
2/23/2023	Ed Behrens	Langerhans Cell Histiocytosis	
2/28/2023	Tara Mitchell	Melanoma	
3/2/2023	Montserrat Anguera	Lupus	
3/7/2023	No class – SPRING BREAK		
3/9/2023	No class – SPRING BREAK		
3/14/2023	<u>David Irwin</u>	Dementia	
3/16/2023	Ben Stanger	Pancreatic Cancer	
3/21/2023	<u>Suraiya Haroon</u>	Mitochondrial Disorders	
3/23/2023	Mike Rickels	Type 1 Diabetes	
3/28/2023	<u>Katalin Susztak</u>	Chronic Kidney Disease Development	
3/30/2023	Rose Nolen-Walston	Nematode Infections	
4/4/2023	No class – HOLD IN CASE OF RESCHEDULE		
4/6/2023	Gary Wu	IBD	
4/11/2023	Phil Scott	Leishmaniasis	
4/13/2023	David Merrick	Obesity	
4/18/2023	<u>Vincent Lo Re</u>	HIV & Viral Hepatitis	
4/20/2023	Amy Clark	Breast Cancer	
4/25/2023	Roddy O'Connor	CAR T-Cells	

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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