

## **IMM202 — IMMUNE AND INFLAMMATORY DISEASES**

### **SECTION 1**

1. January 29. Mikael Pittet & Fil Swirski – Introduction to Section 1
2. January 31. Branch Moody – Writing Scientific Papers that Others Want to Read
3. February 5. Raif Geha – Primary Immunodeficiencies
4. February 7. Michael Brenner – Rheumatoid Arthritis
5. February 12. Vijay Kuchroo – CNS Autoimmunity
6. February 14. Andy Luster – Fundamentals of Allergy
7. February 19. K. Frank Austen – Allergy and Mast cells
8. February 21. Galit Alter – HIV
9. February 26. Jonathan Kagan – Innate Sensing
10. February 28. Rudolph Tanzi – Role of Innate Immunity and Infection in Alzheimer’s Disease
11. March 5. Arlene Sharpe – T cell exhaustion and chronic viral infections
12. March 7. Peter Libby – Cardiovascular Disease from bench to bedside
13. March 12. Roni Nowarski — Sepsis

March 14. MIDTERM EXAM: Exam in class

### **SECTION 2**

14. March 26. Fil Swirski & Mikael Pittet– Introduction to Section 2
15. March 28. Michael Starnbach – Infection
16. April 2. Wendy Garrett – Regulation of Cancer Immunity by the Microbiota
17. April 4. Stephanie Dougan – Immune Regulatory Pathways in Cancer
18. April 9. Leslie Kean – GVHD
19. April 11. Andrew Lichtman – Innate and Adaptive Immunity in Atherosclerosis
20. April 16. Richard Blumberg – Intestinal Inflammation
21. April 18. Duane Wesemann – Barrier Immunity
22. April 23. Alexander Banks – Diabetes and Insulin Resistance
23. April 25. Kai Wucherpfenning – Fundamentals of Cancer Immunology
24. April 30. Isaac Chiu – Neuro-Immune Interactions in Pain and Inflammation
25. May 2. Allon Klein – Unbiased characterization of immune cell states in health and disease
26. May 7. Nir Hacohen – Systems Immunology

May 9. FINAL EXAM: Exam in class

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### Overview

Immunology 202 (IMM202) is a core first-year curriculum course for graduate students in Immunology and graduate students at the Harvard Division of Medical Sciences, Harvard Medical School. IMM202 builds on Immunology 201 (IMM201) and explores fundamental principles of immunology in the context of immune and inflammatory diseases. Through a series of lectures and discussions, students will survey a broad range of diseases in which the immune system is essential. Topics will include not only diseases that mobilize classical immunity but also conditions to which we now know the immune system contributes. Students will use oral and written exercises to learn how to evaluate and synthesize major concepts and tools germane to immunology's relationship to bioscience.

### Time and Location

Tuesday and Thursday, 1:30-4:00 pm  
Modell Center Rosen Lecture Hall

Lecture: 1:30-2:30

Break: 2:30-2:45

Discussion: 2:45-4:00

### Course Structure

All material related to the class can be found in a Google Drive Folder. Students are expected to attend and participate in all lectures and discussions. A lecturer (HMS faculty) will assign 1 paper and 1 review relevant to the following week's lecture topic. All students are required to read each paper prior to class. Format in Section 1: TBA Format in Section 2: TBA.

### Evaluation

Participation (Section 1):	10%
Midterm:	25%
Participation (Section 2):	10%
Review Paper	30%
Final Exam:	25%

### Teaching Assistants

TBA

### Course Directors

Fil Swirski

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Mikael Pittet

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Phone: 617-643-6285

### **Communication Policy**

Best way to reach your course directors or TAs is by email. Except for highly unusual circumstances, the directors will have a turn-around time of <24h except weekends.

### **Absence and Missed or Late Assignments Policy**

Absence to show up or submit an assignment will count against your participation marks. In exceptional circumstances such as illness, the students must inform the course directors in writing before the start of class that they will be absent or late. Failure to do so will count against participation marks.

### **Exam Details and Grading**

Participation counts for 20% of the course. Participation includes attendance, in-class discussion, submission of assignments. The Midterm and Final exams count for 25% each. The Review Paper counts for 30%. Specific criteria by which the exams will be marked will be discussed in detail during class in advance of the exams.