Recent Advances in Immunology IMM1000Y

Mondays 1:30-3:30 pm (unless otherwise specified)
Location: HA 410

Course coordinator
Tracy McGaha (tmcgaha@uhnresearch.ca)
Please note that students who are not in the graduate program in Immunology need to obtain prior permission from the course coordinator to register for this course.

Lecture	TOPIC	SPEAKER
(Speaker/class times are subject to change)		
10-Sept	Introduction, scheduling presentations	McGaha
10-Sept	Innate immunity	Philpott
17-Sept	T cell development	Zúñiga-Pflücker
24-Sept	Spatial organization of the immune response	Gommerman
01-Oct	Myeloid cell development and diversity	Mortha
08-Oct	*Thanksgiving, University closed*	
15-Oct	B cell development	Paige
22-Oct	Antigen processing-MHC class I	Watts
29-Oct	Antigen processing-MHC class II	Watts
05-Nov	Antibody diversity	Martin
12-Nov	T cell activation	Rottapel
19-Nov	B cell activation	Ratcliffe
26-Nov	*Faculty meeting, no lecture*	
03-Dec	Evolution of the adaptive immune system	Ehrhardt
07-Jan	Midterm Exam begins	McGaha

MIDTERM EXAM: Questions will distributed on Jan 7 at 1:30, to be handed back in for marking on Thursday, Jan 10 by 5 pm to the Immunology office.

14-Jan	Apoptosis and immunity	Berger
21-Jan	GALT and immunity	Poussier
28-Jan	NK cells/ ILCs	Crome
04-Feb	NKT/MAIT cells	Mallevaey
11-Feb	Immuno-metabolism	Winer
18-Feb	*Family day, no lecture*	
25-Feb	HIV	Ostrowski
04-Mar	Allergy and hypersensitivity	Eiwegger
11-Mar	*March break, no lecture*	
18-Mar	Genes in Immunology	Mak
01-April	Cancer Immunology	Zhang
08-April	Autoimmunity	Wither
09-April	Final exam begins	McGaha

FINAL EXAM: Questions will be distributed on April 9, to be handed back in for marking on Friday April 12, by 5 pm to the Immunology office.

Course organization:
The course will follow a lecture/seminar format. Each session will include an overview of the topic followed by an in depth analysis of recent key advances. A student will be assigned to each session and will present a paper in class. Depending on the course enrollment, it is anticipated that each student will give one presentation. The faculty member selects 2-3 papers, including a review, for the class to read and an additional paper to be presented in class by a student. The student assigned to each session will be responsible for contacting the professor **two weeks in advance** of the lecture to request citations for the papers for the class to read, and to **remind the speaker of the date, time, and location of the lecture**. The student will arrange to send the citations to the course coordinator **one week before class**, who will post it on Blackboard for the rest of the class. After reading the paper for presentation, the student should feel free to discuss it with the professor in advance of the session. The student will succinctly summarize the background, methods and key findings of the paper and point out any pitfalls or problems. Plan for the presentation to take no more than twenty minutes.

Exams:
The grade for the course will be based on one final mid-term take-home exam and one take-home final exam. There will be three questions for the midterm and three questions on the final exam (maximum two pages per answer). Answers for the take-home exams should be done independently. The exams will be marked by the faculty member that provided each question.

Mark allotment: 35% of the marks will come from the midterm exam, 45% from the final exam, and 20% from the presentation. All grading will be done by the professor who submitted the question or assigned the paper for presentation, and the course coordinator will assemble the marks and administer the final mark.

Prerequisite:
The prerequisite for this course is a basic background in Immunology obtained from at least one recent full-year undergraduate course. The course will be taught at a fairly advanced level. Students who are missing background knowledge in some areas should fill the gaps from the textbook, discussions with colleagues, or advice from faculty members.

Recommended textbook:
Primer to The Immune Response, 2nd Edition. Tak W. Mak, Mary Saunders, and Bradley Jett. 2014 (Academic Press).

Academic Integrity
Academic integrity is fundamental to learning and scholarship at the University of Toronto. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that the U of T degree that you earn will be valued as a true indication of your individual academic achievement, and will continue to receive the respect and recognition it deserves.