

Winter 2024, IMM1431

TOPIC	Immunotherapy
Coordinator	Dr. Tracy McGaha
Day & Time	Fridays from 1:00 pm - 3:00 pm
Location	See ACORN for location
Course Goals	Immunotherapy has generated great excitement and has revolutionized clinical approaches to many diseases. While direct targeting of immune bottle necks has shown promise in a range of clinical pathologies, it is now becoming clear that many other therapeutic approaches owe their efficacy partially through induction of immune reactions. The course will cover general approaches to cellular and biologics-mediated targeting of the immune response in a range of disease states; and clinical management of disease from an immunologic perspective including discussion of adverse reactions to immunotherapy.
Evaluation Method	20% Attendance, 40% Midterm, 40% Final Exam

Schedule: note- schedule is subject to change

Date	Instructor	Lecture
Jan 12,	Christopher Paige	Introduction to Immunotherapy
Jan 18	Shane Harding	Radiotherapy as immunotherapy
Jan 26	Sam Saibil	Immunometabolism as a therapeutic target
Feb 2	Joan Wither	Immune targeting in Systemic Lupus Erythematosus
Feb 9	Adrian Sacher	Checkpoint inhibition therapy
Feb 16	Jalal Kazan	Myeloid cells in tumor progression and immune therapy
Feb 26	Midterm	
March 1	Marcus Butler	Clinical considerations for immunotherapy (adverse responses and clinical management)
March 8	Naoto Hirano	Tumor infiltrating lymphocyte and TCR/CAR cell infusion therapy
March 15	Kabir Khan	Combining ICI with other approaches
March 22	David Brooks	Immunotherapy for infectious disease
April 5	Dana Philpott	Bugs as drugs
April 8	Final exam**	

***Midterm EXAM:** The exam will be take-home, essay format. All instructors (with the exception of Dr. Paige) will provide 1-3 questions and students will select 3 instructors questions to answer. Exam questions will be distributed February 26th, to be handed back for marking on Thurs. Feb 29, by 5 pm to Nathaniel Winsor (nathaniel.winsor@mail.utoronto.ca). Answers for the take-home exams should be done independently.

****FINAL EXAM:** The exam will be take-home, essay format. Exam questions will be distributed April 8, to be handed back for marking on Thursday April 11, by 5 pm to Nathaniel Winsor. Answers for the take-home exams should be done independently.

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 the topic.

Mark allotment: 20% of the marks will come from attendance, 40% from the midterm, and 40% from the final exam. 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:

There are no prerequisites to enroll, however a basic understanding of Immunology will assist in learning of module materials. Students who are lacking background knowledge in some areas should fill the gaps from the recommended textbook, discussions with colleagues, or advice from faculty members.

Recommended textbook:

Janeway's Immunobiology, 9th Edition. Kenneth Murphy and Casey Weaver.

2017 (Garland Science).

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.