

IMM 429 / 1429 – 2018

Course Time & Location: Tuesdays, 3:10 - 5:00 pm, Room 6 (Imperial Oil Lecture), C. David Naylor Bldg.

Course Coordinator:

Dr. JC Zúñiga-Pflücker jczp@sri.utoronto.ca Department of Immunology University of Toronto
Sunnybrook Research Institute

Office hours By appointment & most Tuesday's 2 pm, MSB 7203

Teaching Assistants:

1 – tba tba@mail.utoronto.ca
2 – Charles Maisonneuve charles.maisonneuve@mail.utoronto.ca
3 – tba tba@mail.utoronto.ca

Course Description: This course covers the topics of hematopoiesis, myelopoiesis, lymphopoiesis, a study of the development of cells involved in the immune system including their ontogeny, physical, molecular, and biochemical characteristics, regulation of differentiation and selection of lymphocytes.

Lecture Schedule:

Date	Lecture Topic	T.A.	Lecturer
September 11	Introduction & hematopoietic stem cells	1	Zúñiga-Pflücker & Iscove
September 18	Hematopoietic stem cells	1	Singh
September 25	Organogenesis & embryonic progenitors	1	Zuniga-Pflucker
October 2	T lymphopoiesis	1	Zúñiga-Pflücker
October 9	T lymphopoiesis	2	Zúñiga-Pflücker
October 16	Midterm Exam	2	-
October 23	Myelopoiesis	2	Epelman
October 30	Transcriptional regulation of hematopoiesis	2	Anderson
November 6	<i>Fall break</i>	-	-
November 13	B lymphopoiesis	3	Paige
November 20	B lymphopoiesis	3	Ratcliffe
November 27	Comparative hematopoiesis	3	Ehrhardt
December 4	<i>Student presentations</i>	1-3	Zúñiga-Pflücker
December *	Final Exam	3	-

Last date to drop course: November 5, 2018 for IMM 429; Oct 30, 2018 for IMM 1429

IMM429H1/1429H1 marking scheme			
Dates	Event	% of total grade	
		429F	1429F
October 16	Midterm Exam (in class)	40%	40%
*December 8-19	Final Exam	45%	45%
	Term paper (grad students)	0%	15%
	Participation	15%	0%

Participation: The last class session will be devoted to student group presentations of specific topics in developmental immunology, focusing on emerging questions in the field, translational implications, and ways to address them. After the midterm, student teams will be assigned to a topic and will prepare a brief presentation (7-10 mins) highlighting the important issues based on the current understanding, and then outline several key unanswered questions and/or potential applications for discussion (3-5 mins).

NB: 1) All students are expected to contribute to this and regular class discussions, and extra credit may be earned for consistent high-level participation. 2) For graduate students, a term paper (2 pgs) will be assigned, which will consist of a critical review of a recent publication in Developmental Immunology.

Blackboard: Lecture notes will be posted on Blackboard in advance of most lectures. Midterm exam and participation marks will also be posted on the site. Students are expected to check Blackboard regularly throughout the semester.

Missed Test Policy: Students who miss the midterm exam for a valid medical reason must submit a UofT Verification of Student Illness or Injury form to the Immunology Office (Medical Sciences Building Room 7205) within one week of the exam. If the reason for missing the exam is deemed acceptable, the student will be given the opportunity to write a make-up exam, held during the Fall Break. Failure to submit a Verification of Student Illness or Injury form will result in a grade of zero for the exam.

Accessibility: Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability or health consideration that may require accommodations, please feel free to approach me and/or the Accessibility Services Office as soon as possible. The Accessibility Services staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. The sooner you let them and me know your needs, the quicker we can assist you in achieving your learning goals in this course. Accessibility Services website: www.accessibility.utoronto.ca.

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.

Familiarize yourself with the University of Toronto's *Code of Behaviour on Academic Matters* (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>). It is the rulebook for academic behaviour at the U of T, and you are expected to know the rules.

General Reference Text Book: *Janeway's Immunobiology* 9th ed. by Murphy & Weaver (Primarily Chapter 8).

Professors Lecturing:

Norman Iscove

University Health Network

Email: iscove@uhnres.utoronto.ca

Jasty Singh

Institute Biomaterials & Biomedical Engineering

Email: jastaran.singh@mail.utoronto.ca

Slava Epelman

University Health Network

Email: Slava.Epelman@uhn.ca

Michele Kay Anderson

Sunnybrook Research Institute

Email: manderso@sri.utoronto.ca

Christopher Paige

University Health Network

Email: paige@uhnres.utoronto.ca

Michael Ratcliffe

University of Toronto

Email: michael.ratcliffe@utoronto.ca

Juan Carlos Zúñiga-Pflücker

Sunnybrook Research Institute

Email: jczp@sri.utoronto.ca