

WHY DO YOUR GRADUATE WORK WITH US?

WHO WE ARE



- City wide academic unit
- Training programs:
 - Undergraduate
 - Graduate
 - Postdoctoral
- Research Powerhouse
- Leading Immunology Program in Canada



RESEARCH THEMES

- Cellular & Molecular Immunology
- Development of the Immune System
- Autoimmunity & Inflammation
 - Diabetes, SLE, MS, RA
- Primary Immunodeficiencies
- Cancer Immunology & Immunotherapy
- Infectious Diseases
 - Flu, HIV/AIDS
- Mucosal Immunology (Microbiome)
- Transplantation & Immune tolerance



WHO WE ARE

72 Faculty Members

Hospital for Sick Children 9

Medical Sciences Building 14

Mount Sinai Hospital 3

Sunnybrook Research Inst. 9

University Health Network 36

U of T – Scarborough 1



RESEARCH POWERHOUSE

- Over 1,100 publications in past 10 years
 - With >32,000 citations
- >\$20M in operating grant support
- \$15M in recent infrastructure support
 - Host-Microbiome Research Network
- 110 Graduate students and over 220 Postdoctoral fellows



RESEARCH POWERHOUSE

Seminal Discoveries

- Identification of the T cell receptor
- Identification of early hematopoietic stem/progenitor cells
- Isolation of genes for Crohn's disease
- Identification of CTLA4 immune-regulatory function
- Function of adipose tissue regulatory T cells
- Characterization of tyrosine phosphatases, SHP1
- Isolation of primary immunodeficiency genes, CD3d
- Mechanisms of T cell co-stimulation
- Molecular characterization of positive selection of T cells
- Description of an independent intestinal Immune system
- Use of interferons for the treatment of SARS
- Development of an in vitro system for the generation of T cells



STUDENT LIFE

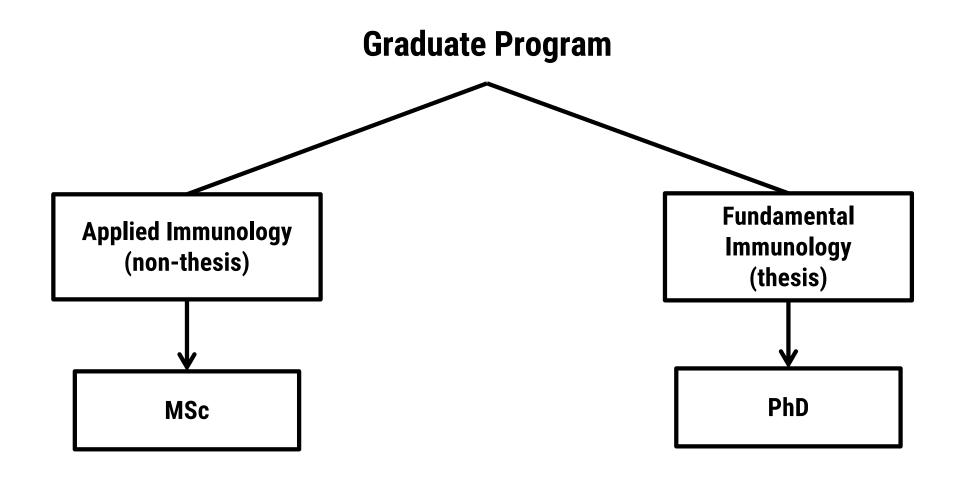


Immunology Graduate Students' Association (IGSA)

- Social events
- Community Outreach
- Fundraising
- Organized Sports

GRADUATE PROGRAMS

GRADUATE PROGRAMS IN IMMUNOLOGY



FUNDAMENTAL IMMUNOLOGY

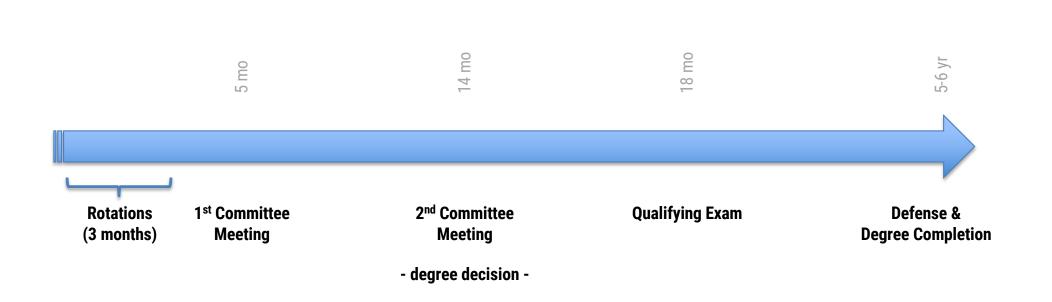


FUNDAMENTAL IMMUNOLOGY

 An advanced research program intended to reflect a level of training consistent with the ability of the student to function as an independent research scientist

 Thesis-based; Successful completion of course work as well as a demonstrated ability to carry out research of publishable quality

TIMELINE



GRADUATE FUNDING – FUNDAMENTAL IMM

- Incoming students
 - —~\$19,000 living allowance + tuition fees

- Students who successfully pass their qualifying/reclassification exam
 - –~\$21,000 living allowance + tuition fees

APPLIED IMMUNOLOGY



HOW IS THIS PROGRAM DIFFERENT?

- Not necessarily hypothesis driven
- Focus is more on applying technical knowledge to solve problems and create efficiencies
 - assay development and optimization
 - hone skills desired by modern biomedical research companies
- Fixed-length (20 months; or 16 months with Advanced Standing)



HOW LONG IS THE PROGRAM?

Standard Entry

Advanced Standing

		YEAR 1			YEAR 2		
	Fall	Winter	Summer	Fall	Winter	Summer	
Core Courses		IMM1450Y, IMM1435H, IMM1436H		IMM1650Y		IMM1651H	
Auxiliary Courses	• IM	• IMM1429H		1.0 Credits of Electives (one full-year course or two half-courses) Chosen from various graduate departments in the faculty		Practical Placement (either on- or off-campus)	



DO I GET TO WORK IN A LAB?

Yes!

- Major research project will be to develop a new assay / technique or improve upon an existing one that will ultimately benefit your host lab.
- At the end of the term, you'll submit a report on your findings and give an oral presentation.



WHAT CAN I DO WITH THIS DEGREE?

Business

- Management Consulting
- Innovations Officer (MaRS)
- Market Analyst

Communications

- Writing/Editing for Scientific Journals, Newspapers, etc.
- Technical Consultant/Tech Transfer Officer/Patent Agent
- Science Translation
- Regulatory affairs/Med Affairs

Government

- Research and Development
- Office of Innovations
- Policy

Biotech Industry

- Field or Application Scientist
- Product/Project Manager
- Pharma or Biotech Sales
- Food & Agricultural Immunology R&D
- Technologist for Immune Assays

Education

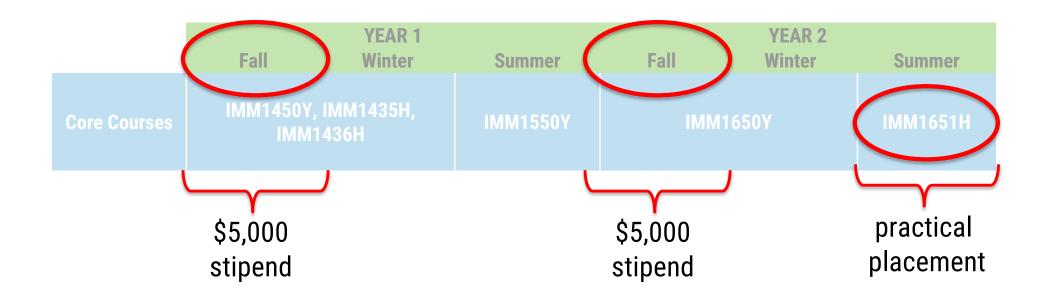
- High School Teacher / Head of Science
- Science/Immunology Outreach Programs

Non-profit

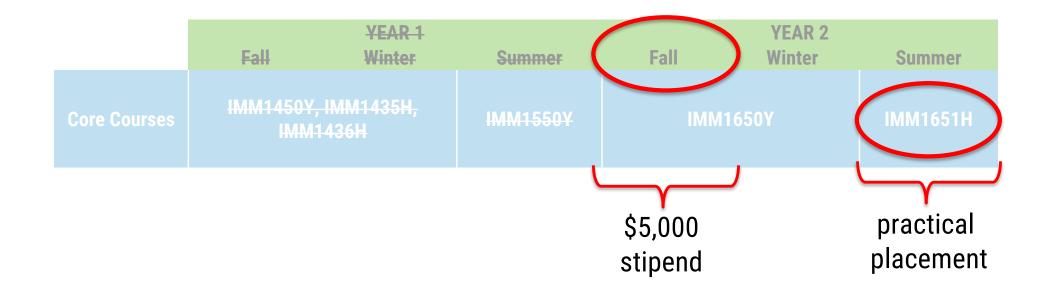
- Independent Science Research Foundations
- Social Programs & Public/Global Health Organizations
- Public Policy & Research
- Laboratory Technologist at Hospitals or Academia

Preparation for MD/PhD/DDS

GRADUATE FUNDING – APPLIED IMM STD ENTY



GRADUATE FUNDING - APPLIED IMM ADV STDN



How do I apply for these programs?

GRADUATE ADMISSIONS



ADMISSION REQUIREMENTS

PhD FUNDAMENTAL IMMUNOLOGY

- 4 year Life Sciences BSc, with at least a A- in the final two years
- 4th year courses in Immunology
- Strong research experience
 e.g. senior thesis or equivalent

MSc APPLIED IMMUNOLOGY

- 4 year Life Sciences BSc, with at least a B+ in the final two years
- 2nd/3rd year courses in Immunology
- Some lab experience

SUPPORTING DOCUMENTS

- CV
- Letter of intent
 - max 2 pages, single spaced, 1-inch margins
- Three letters of reference
 - from people familiar with your academic and research capabilities
 - webform: questions + letter

Transcripts

- scanned is acceptable
- official, final transcript required prior to registration



ONLINE APPLICATION

 Apply via the School of Graduate Studies Online Admissions Application

https://apply.sgs.utoronto.ca

Information on procedure, required documents, admissions FAQ

http://uoft.me/applytoimmunology



ADMISSIONS ASSISTANCE

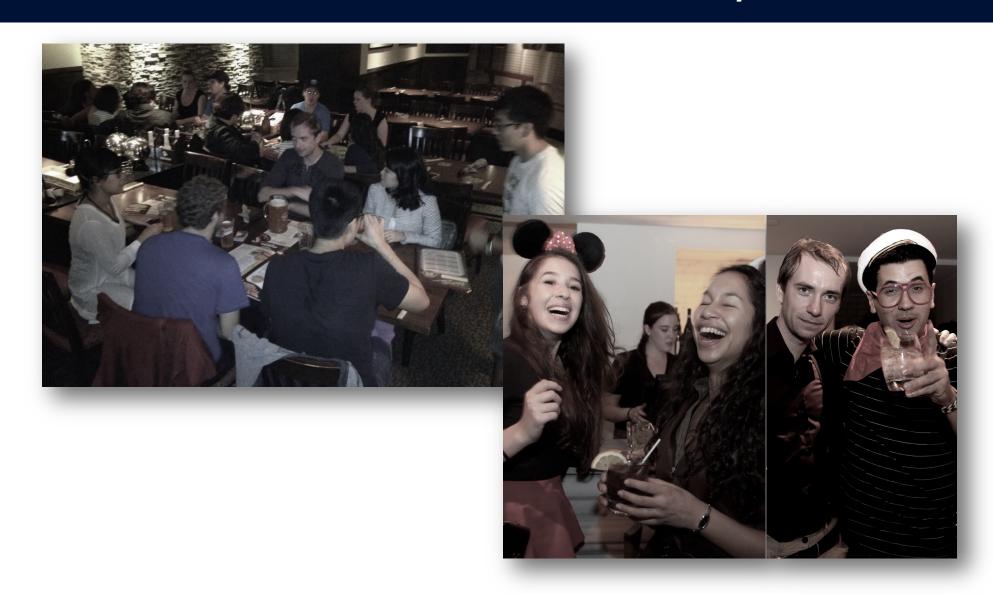
- Fundamental Program
 - Kate Sedore, MSB 7205
 - graduate.immunology@utoronto.ca
- Applied Program
 - Korosh Kianizad, MSB 7255A
 - applied.immunology@utoronto.ca

We're a fun place to be!

IMMUNOLOGY GRADUATE STUDENTS ASSOCIATION (IGSA)



GAMES NIGHT & HALLOWEEN PARTY/PUB!





HOLIDAY PARTY (BEST ONE ON CAMPUS!!)





DEPARTMENTAL SUMMER RETREAT – GENEVA PARK





DEPARTMENT PICNIC @ THE ISLANDS!



SPORTS! THE IMMUNODOMINATORS













LEARN AND GIVE BACK!

- "Meet the Speaker" Lunches
- Blackboard Immunology
- Career development sessions

- Fundraising
 - Nellie's Shelter
- Community outreach
 - Let's Talk Science
 - SciChat
 - International Day of Immunology

THANK YOU!