Graduate Studies in
Pharmacology and Toxicology at the University of Toronto

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So you want to be a scientist...
J. Thorburne
First Professor of Pharmacology and Therapeutics
University of Toronto
1887-1892
University of Toronto
Department of Pharmacology & Toxicology

Graduate Program

Approximately 60 Graduate Faculty members

Currently 146 Graduate Students:

   62 thesis-based MSc
   34 course-based MSc
   50 PhD students

September 2018 intake:

   12 PhD students
   42 MSc students (27 thesis stream, 15 ACP stream)
University of Toronto
Department of Pharmacology & Toxicology

**Research Areas Offered:**

- Alcoholism and drug addiction
- Biochemical and molecular pharmacology
- Cancer pharmacology
- Cardiovascular pharmacology
- Clinical pharmacology
- Drug metabolism and pharmacokinetics
- Neuropharmacology
- Pharmacogenetics and pharmacogenomics
- Receptor pharmacology
- Signal transduction
- Biomedical Toxicology (Collaborative Program)
Career Opportunities for Graduates

• **Academic**
  • University professors
  • Community colleges and secondary schools

• **Pharmaceutical and biotechnology industries**
  • Research laboratories
  • Clinical studies coordinators
  • Regulatory affairs
  • Management and administration
  • Business development and venture capital

• **Government**
  • Health Protection Branch (Federal)
  • Environmental laboratories (Provincial and Federal)
  • Forensic toxicology (Provincial)

• **Biomedical Research Laboratories**
  • Hospitals
  • Research Institutes
  • University laboratories
Graduate Programs

• **M.Sc. Program**
  Applied Clinical Pharmacology
  Thesis-based

**Ph.D. program**
  “Normal entry” vs.
  Ph.D. transfer vs.
  “Direct-entry”
Two year program

Dedicated thesis research supported by Graduate Supervisor

One course – PCL 1002Y Graduate Pharmacology

Seminar at beginning of second year

Thesis write – up and defense
Graduate Programs

• **M.Sc. Program**
  - Thesis-based
  - Applied Clinical Pharmacology

**Ph.D. program**
  - “Normal entry” vs. Ph.D. transfer vs. “Direct-entry”
Four year program (Five year program if direct – entry PhD)

Dedicated thesis research supported by Graduate Supervisor

One course – PCL 1002Y Graduate Pharmacology + one other course

Three Seminars at beginning, middle and end of program

Breadth modules

Thesis write – up and defense
PH.D. TRANSFER OR DIRECT ENTRY?
Collaborative Specializations

There are eight collaborative specializations offered in Pharmacology:

- Addiction Studies
- Biomedical Toxicology
- Cardiovascular Sciences
- Human Development
- Musculoskeletal Sciences
- Neuroscience
- Resuscitation Sciences
- Women's Health
Graduate Admission Stats

Total applications
  Approximately 300 received / year

Total provisional acceptances
  60 - 80 (25% of these are Applied Clinical Pharmacology)

New students beginning September 2018
  53
APPLYING TO THE PROGRAM:

- Application process is completely on-line.
- Application Site open now: [www.pharmtox.utoronto.ca > Grad Programs > Admissions](http://www.pharmtox.utoronto.ca > Grad Programs > Admissions)
- Separate deadlines dates for the payment of processing fee and for application documents to be received.

SEPTEMBER 2019 ADMISSION:

**Visa Students:**
Application deadline: **January 15, 2019**
Documentation deadline: **February 1, 2019**

**Canadian Citizens, Permanent Residents or US Citizens:**
Application Deadline: **May 15, 2019**
Documentation deadline: **June 1, 2019**

ACP Deadlines: Jan 15, 2019 (International applicant deadline)
May 15, 2019 (Domestic applicant deadline)

There are benefits to applying early!
Financial Support – Thesis based only

Minimum Departmental stipend in 2018-19:

• Domestic students: $27124.52 (MSc); $29195.52 (PhD)

• International students: $43488.52 (MSc); $29819.52 (PhD)

Must be guaranteed by the proposed supervisor

• External scholarships and awards – APPLY EARLY!
  • OGS, NSERC, OMHF, CIHR, HSF, etc. – 24% of current students have an external award
    http://www.glse.utoronto.ca/external-awards

• University of Toronto awards
  University of Toronto Open Fellowships – All applicants

• Support from the supervisor’s grant
M.SC. THESIS?

OR APPLIED CLINICAL PHARMACOLOGY?
CONDITIONALLY ACCEPTED

BUT WAITED TOO LONG TO SECURE A SUPERVISOR
Success in Graduate Pharmacology

MARKS  PUBLISH

AWARDS  NETWORK
Questions????