

Collaborative Graduate Program with a Specialization in

# Cancer Research

MSc and PhD

## Why GRADUATE STUDIES in CANCER RESEARCH?

Graduate students and their work are an important part of the cancer research community. In our collaborative program in Cancer Research, students can pursue cutting edge research and innovative projects in a broad range of areas from prevention, diagnosis and management of cancer to development of cancer policy.

The collaborative program in cancer research is jointly offered by the Departments of Public Health Sciences, Pathology & Molecular Medicine, Psychology, and Biomedical & Molecular Sciences.

Graduate students in the Cancer Research collaborative MSc and PhD programs have centralized access to a broad range of cancer research opportunities available to them within the Faculty of Health Sciences, and at Queen's University as a whole. The collaborative program provides an intellectual focus on cancer and connects researchers and graduate students with different perspectives on this area. The program encourages interactions of researchers and students with common interests in cancer, regardless of departmental home, and at the same time facilitates productive interaction between individuals involved in different research areas, all focused on different aspects of cancer research.

## Why QUEEN'S?

Our established strengths in graduate education in Cancer Research at Queen's span many research areas from structural and tumour biology and genetics, through epidemiology to outcomes research, cell signaling, and health policy development.

Our multidisciplinary collaborative program also provides students with opportunities to pursue their studies within nationally and internationally recognized centres of Cancer Research excellence at Queen's University.

Many of our graduates find employment opportunities in the area of cancer



research or related fields, in industry and health research institutions, government agencies, pharmaceutical companies, private industry, and academic centres.

## Program STRUCTURE

**MSc** 24 months (full time)

**PhD** 36 months (full time).

One or more designated Cancer Research recommended courses either as part of requirement or electives of the student's home department, or in addition to those requirements; participation in the Cancer Research Seminar Series; and a thesis project in an area of Cancer Research.

## Research AREAS

- Cancer Care & Service Delivery
- Cancer Genetics, Gene Regulation and Molecular Diagnostics
- Cellular Regulation & Signal Transduction in Cancer Cells
- Drug Development & Experimental Therapeutic
- Drug Metabolism and Pharmacogenetics
- Immuno-Oncology
- Molecular Epidemiology
- Molecular Mechanisms of Carcinogenesis
- Outcomes Research and Health Policy Development

## Research RESOURCES

- Cancer Clinical Trials Group
- Institute for Clinical Evaluative Sciences
- Queen's Laboratory for Molecular Pathology



# Cancer Research

## Faculty RESEARCH and SUPERVISION

### BIOMEDICAL AND MOLECULAR SCIENCES

- Sheela Abraham – Assistant Professor
- Edmond Chan – Assistant Professor
- Andrew Craig – Associate Professor
- Charles H. Graham – Professor
- Zongchao Jia – Professor
- Madhuri Koti – Assistant Professor
- Christopher R. Mueller – Professor
- P. Martin Petkovitch – Professor
- Steven P. Smith – Professor
- Louise M. Wynn – Professor

### PUBLIC HEALTH SCIENCES

- Kristan Aronson – Professor
- Chris Booth – Principal Investigator
- Michael Brundage – Professor
- Keyue Ding – Associate Professor
- Jennifer Flemming – Assistant Professor
- Patti Groome – Professor
- Timothy Hanna – Assistant Professor
- Will King – Associate Professor
- Yingwei Paul Peng – Professor
- Harriet Richardson – Professor

### PATHOLOGY AND MOLECULAR MEDICINE

- David Berman – Professor
- Alexander 'Sandy' Boag – Associate Professor
- Anna Panchenko – Professor
- Scott K. Davey – Professor
- Harriet Feilotter – Professor
- Peter Greer – Professor
- David LeBrun – Professor
- Lois Mulligan – Professor
- Christopher Nicol – Associate Professor
- Michael Rauh – Assistant Professor
- Neil Renwick – Assistant Professor
- Sandip SenGupta – Professor
- Xiaolong Yang – Professor

### PSYCHOLOGY

- David J. Hauser – Assistant Professor
- Jill Jacobson – Associate Professor
- Li-Jun Ji – Professor
- Caroline Pukall – Professor

### TRANSLATIONAL MEDICINE

- Stephen Archer - Professor
- Janet Dancy - Professor
- Annette Hay - Associate Professor
- Mark Ormiston - Assistant Professor

# Application FAQs

## What do I need to know to APPLY?

- Students must first be admitted to a participating graduate program and department and must meet the specific admission requirements of that home program (Public Health Sciences, Biomedical & Molecular Sciences, Pathology & Molecular Medicine, Psychology).
- Contact the appropriate Program Graduate Assistant to indicate your interest in completing the specialization *prior to* submitting the online application. Also contact potential supervisors within your area of research to discuss enrollment in the Collaborative Program. Once you have identified a supervisor, you will be registered in the home department and may then apply for admission to the Collaborative Program.

### ELIGIBILITY

Before starting your application, please review the eligibility requirements for the home program in which you have interest.

### DEADLINES

- BIOMEDICAL AND MOLECULAR SCIENCES: February 15th
- PUBLIC HEALTH SCIENCES: January 31st
- PATHOLOGY AND MOLECULAR MEDICINE: February 1st
- PSYCHOLOGY: December 1st

## What about FUNDING?

Fellowships and teaching assistantships are available through the University and are automatically considered upon admission. Full-time students are encouraged to seek external financial support and to apply for funding from NSERC, CIHR, OGS, ACCELERATE Ontario, and other sources. Queen's automatically issues a one time \$5,000 top-up to federal tri-council Master's scholarship holders in their first year of study and a one time \$10,000 top-up to tri-council doctoral scholarship holders. For more information, see the School of Graduate Studies' and Postdoctoral Affairs information on awards and scholarships and the department's graduate awards page.

## CONTACT Information

For more information, contact the representative of the Department that is best aligned with their research interests.

- **BIOMEDICAL AND MOLECULAR SCIENCES**  
Applicant surname A-L: Wendy Cumpson, [cumpsonw@queensu.ca](mailto:cumpsonw@queensu.ca)  
Applicant surname M-Z: Diane Sommerfeld, [diane.sommerfeld@queensu.ca](mailto:diane.sommerfeld@queensu.ca)
- **PUBLIC HEALTH SCIENCES**  
Sue Preston  
[epid@queensu.ca](mailto:epid@queensu.ca)
- **PATHOLOGY AND MOLECULAR MEDICINE**  
Mark Andrews  
[mark.andrews@queensu.ca](mailto:mark.andrews@queensu.ca)
- **PSYCHOLOGY**  
Kelly Sparks  
[psycgrad@queensu.ca](mailto:psycgrad@queensu.ca)
- **TRANSLATIONAL MEDICINE**  
Julie Heagle  
[Julie.Heagle@queensu.ca](mailto:Julie.Heagle@queensu.ca)  
[deptmed.queensu.ca/academics/translational-medicine-graduate-programs](http://deptmed.queensu.ca/academics/translational-medicine-graduate-programs)