

NEUROSCIENCE

The Neuroscience Collaborative Specialization offers an opportunity for graduate students engaged neuroscience research to enhance their departmental degree program with additional multidisciplinary experience. This unique study combination provides students with the best possible foundation for academic careers in neuroscience and related areas. The Collaborative Specialization in Neuroscience includes participation from core faculty members in the following departments: Animal Biosciences, Biomedical Sciences, Clinical Studies, Human Health and Nutritional Sciences, Integrative Biology, Molecular and Cellular Biology, Pathobiology, Philosophy, Population Medicine and Psychology. Students wishing to pursue a Master's or PhD degree with the designation Neuroscience must enter the Collaborative Specialization in Neuroscience through a participating department.

Administrative Staff

Director and Graduate Program Coordinator

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College Representatives

Craig Bailey (OVC)
Jasmin Lalonde (CBS)
Boyer Winters (CSAHS)

Graduate Faculty

This list may include Regular Graduate Faculty, Associated Graduate Faculty and/or Graduate Faculty from other universities.

Naseem Al-Aidroos

B.Sc. Waterloo, MA, PhD Toronto - Associate Professor
Graduate Faculty

Sarah Alderman

BA, PhD Guelph - Assistant Professor
Graduate Faculty

Melanie Alpaugh

B.Sc., M.Sc. Guelph, PhD Toronto - Assistant Professor
Graduate Faculty

Craig D. Bailey

B.Sc., PhD Queen's - Associate Professor
Graduate Faculty

Andrew J. Bendall

B.Sc. Australian National, PhD Macquarie - Associate Professor
Graduate Faculty

Leah Bent

B.Sc., M.Sc. Guelph, PhD British Columbia - Professor
Graduate Faculty

Nicholas J. Bernier

B.Sc. McGill, Diploma Aquaculture Malaspina College, M.Sc. British Columbia, PhD Ottawa - Professor
Graduate Faculty

Elena Choleris

B.Sc., PhD Parma (Italy) - Professor
Graduate Faculty

Nuria Daviu

BA, M.Sc., PhD Autonomous University Barcelona - Assistant Professor
Graduate Faculty

Donald Dedrick

BA, MA Carleton, PhD Toronto - Associate Professor and Chair
Graduate Faculty

Giannina Descalzi

BA Guelph, M.Sc., PhD Toronto - Assistant Professor
Graduate Faculty

Mark J. Fenske

B.Sc. Lethbridge, MA, PhD Waterloo - Professor
Graduate Faculty

Christopher Fiacconi

B.Sc. Western, PhD McMaster - Assistant Professor
Graduate Faculty

Andreas Heyland

B.Sc., M.Sc. Zurich, PhD Florida - Professor
Graduate Faculty

Fiona James

B.Sc. Toronto, M.Sc. Western, DVM, D.V.Sc. Guelph, Dipl. ACVIM - Associate Professor
Graduate Faculty

Nina Jones

B.Sc. Guelph, PhD Toronto - Professor
Graduate Faculty

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B.Sc., M.Sc., PhD Queen's - Associate Professor
Graduate Faculty

Frederic Laberge

B.Sc., M.Sc. Laval, PhD Manitoba - Associate Professor
Graduate Faculty

Jasmin Lalonde

BA Ottawa, MA, PhD McGill - Assistant Professor
Graduate Faculty

Francesco Leri

BA, MA, PhD McGill - Professor
Graduate Faculty

Ray Lu

B.Sc. Wuhan (China), M.Sc. Beijing Medical, PhD Saskatchewan - Associate Professor
Graduate Faculty

David W. L. Ma

B.Sc., PhD Alberta - Professor
Graduate Faculty

Neil J. MacLusky

B.Sc. Leeds, PhD London - Retired Faculty, Biomedical Sciences, University of Guelph
Associated Graduate Faculty

Georgia Mason

BA, PhD Cambridge - Professor
Graduate Faculty

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BA SUNY Albany, PhD McMaster - Associate Professor
Graduate Faculty

Robert T. Mullen

B.Sc., PhD Alberta - Professor
Graduate Faculty

Jennifer Murray

B.Sc. Nebraska-Kearney, MA, PhD Nebraska-Lincoln - Assistant Professor
Graduate Faculty

Lee E. Niel

B.Sc. Simon Fraser, PhD British Columbia - Associate Professor
Graduate Faculty

Samantha Payne

B.Sc., M.Sc. Guelph, PhD Toronto - Assistant Professor
Graduate Faculty

Melissa Perreault

B.Sc., M.Sc., PhD McMaster - Associate Professor
Graduate Faculty

Geoffrey A. Power

BKin, M.Sc. Memorial, PhD Western - Associate Professor
Graduate Faculty

Scott Ryan

B.Sc. Memorial, PhD Ottawa - Associate Professor, University of Calgary
Associated Graduate Faculty

Tarek M. Saleh

B.Sc., PhD Western - Professor and Chair
Graduate Faculty

Shaun Sanders

B.Sc., PhD British Columbia - Assistant Professor
Graduate Faculty

Angela Scott

B.Sc. Saskatchewan, PhD British Columbia - Assistant Professor
Graduate Faculty

Rebecca Shapiro

B.Sc. McGill, PhD Toronto - Associate Professor
Graduate Faculty

John Z. Srbely

B.Sc. Laurentian, DC Canadian Memorial Chiropractic College, PhD Guelph - Associate Professor
Graduate Faculty

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Lana M. Trick

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Graduate Faculty

Lori A. Vallis

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Graduate Faculty

Boyer D. Winters

BA Dalhousie, PhD Cambridge - Professor
Graduate Faculty

John L. Zettel

BS Waterloo, M.Sc., PhD Toronto - Associate Professor
Graduate Faculty

Admission Requirements

Students in the collaborative specialization in Neuroscience must meet the admission requirements of the participating department in which they are enrolled. The application process has two stages: first, application to the primary program of interest, identifying interest in the collaborative specialization as a secondary focus. If the student is admitted to the primary program, the second stage is then admission to the collaborative specialization.

Program Requirements

MA/MSc/MBS Requirements

The collaborative specialization in Neuroscience enables students engaged in neuroscience research to combine their departmental degree program with a multidisciplinary specialization in the field of neuroscience.

Students in the MA/MSc/MBS collaborative specialization must complete NEUR*6000 Principles of Neuroscience and a major project/paper or thesis in the field of Neuroscience. Further, student must register for NEUR*6100 Seminar in Neuroscience each term that they are in the collaborative specialization. In NEUR*6100 Seminar in Neuroscience, students and faculty will meet once a month to discuss issues/hear talks/present research in neuroscience.

Requirements of this collaborative specialization may also serve as elective requirements in the student's home program.

Doctoral Requirements

If a student enters the PhD collaborative specialization in Neuroscience at the doctoral level, students must complete NEUR*6000 Principles of Neuroscience, or show evidence of course equivalence in prior training. Students must be engaged in neuroscience dissertation research. During each term of their program of studies, doctoral students must enroll in NEUR*6100 Seminar in Neuroscience. The seminar will meet monthly. Students must take their qualifying exams within five semesters of entering the program, as required by University graduate policies. One member on the qualifying exam committee must be a core member of the collaborative specialization in Neuroscience outside the student's home department or a faculty member from another university approved by graduate studies. As well one member of the student's advisory committee must be a core member of the neuroscience collaborative specialization outside the student's home department or a faculty member from another university approved by graduate studies.

Requirements of this collaborative specialization may also serve as elective requirements in the student's home program.

Courses

NEUR*6000 Principles of Neuroscience Unspecified [0.50]

This course is designed to ensure that graduate students with diverse neuroscience backgrounds registered in the collaborative specialization in Neuroscience are exposed to the fundamentals in all areas of neuroscience.

Department(s): Department of Biomedical Sciences

Location(s): Guelph

NEUR*6100 Seminar in Neuroscience Unspecified [0.00]

This course will expose graduate students to some of the major theories, issues and methodologies driving research in neuroscience. Students will learn to critically evaluate presentations by researchers in this field as well as to communicate the results of their own research.

Department(s): Department of Psychology

Location(s): Guelph