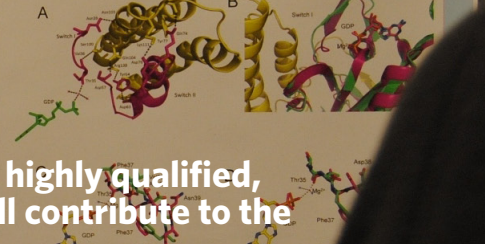
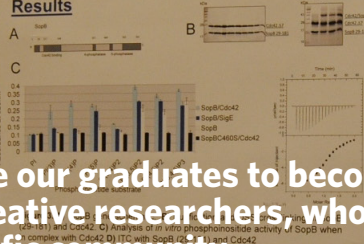


Our goal is to enable our graduates to become highly qualified, independent and creative researchers, who will contribute to the international scientific community.

Introduction

- Salmonella is an invasive bacteria with a type III secretion system.
- SopB is a virulence protein with phosphatidylcholine phosphatase activity (1).
- During entry SopB activates host GTPase to alter cytoskeleton dynamics (2).
- SopB hydrolyzes of PI(4,5)P₂ at the membrane promotes membrane fusion (3).
- SopB then translocates to the Salmonella containing vacuole (4,5).
- SopB directly interacts with Cdc42 (6,7).



Biochemistry and Molecular Biology Retreat. Organized by grad students for grad students to show their projects. Held in Whistler, BC. June 2011.

Research Facilities

We offer top-notch facilities in many areas of contemporary biochemistry and molecular biology, located at several sites across the UBC campus and affiliated institutes:

Life Science Institute: <http://lsi.ubc.ca/>

Michael Smith Labs: <http://www.msl.ubc.ca/>

BC Cancer Agency: <http://www.bccrc.ca/>

Centre for High-Throughput Biology: <http://www.chibi.ubc.ca/>

Brain Research Centre: <http://www.brain.ubc.ca/>

Centre for Blood Research: <http://www.cbr.ubc.ca/>

Centre for Molecular Medicine and Therapeutics: <http://www.cmmt.ubc.ca>

Research Strengths & Facilities

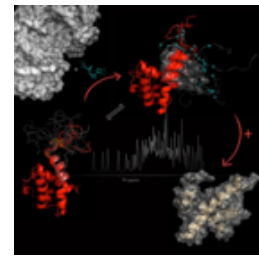
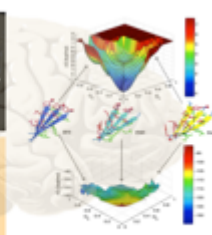
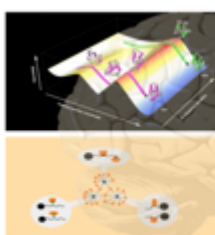
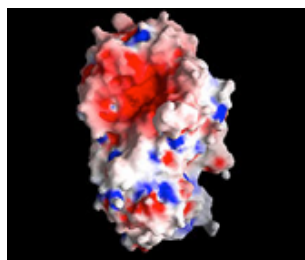
Our graduate program offers training in 35 research groups with research interests in many areas of contemporary biochemistry and molecular biology.

The research projects available for graduate studies involve work that aims to advance our understanding of fundamental problems in biology and to apply that knowledge to understanding and treatment of human disease. To achieve these goals, our laboratories are well funded and equipped with the very best cutting-edge equipment and resources.

Moreover, the highly interactive approach to research builds on our strong links within the Life Sciences Institute - and beyond, to the Michael Smith Laboratories, the Genome Sciences Centre, The BC Cancer Research Centre, the Centre for High Throughput Biology, the Centre for Drug Research and Development and the Centre for Macular Research.

As a graduate student in our program you will benefit from support and mentorship of your own lab colleagues as well as the outstanding groups of undergraduate, graduate and post-doctoral trainees throughout the department. In addition to specific research projects and associated course work, interactions between groups and laboratories form the focus of weekly seminars, monthly poster sessions and our annual retreat and other social events.

To learn more about specific research projects simply check out the on-line links to the home pages of individual faculty members, accessible from www.biochem.ubc.ca.



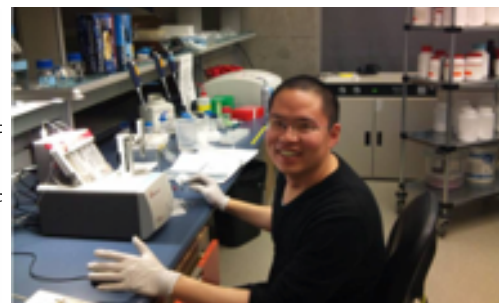
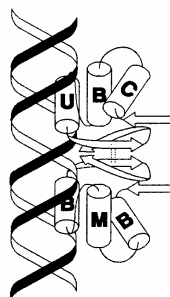
a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

Biochemistry & Molecular Biology
email: ubcbioc-g-graduate@mail.ubc.ca
web: <http://www.biochem.ubc.ca>

Department of Biochemistry and Molecular Biology maintains a vibrant and collaborative environment for multi-disciplinary research in areas bridging chemistry and biology.

Research Areas:

- Vibrant, collaborative, multi-disciplinary, bridging fundamental problems in chemistry and biology
- Structural biology and molecular biophysics
- Signal transduction
- Gene expression, chromatin structure, and the regulation of transcription and translation
- Protein trafficking and secretion
- Membrane biology
- Enzymology
- Proteomics and degradomics
- Chemical biology and drug discovery
- Disease mechanisms related to vision, diabetes, cancer, and bacterial pathogenicity
- Computational biology



Biochemistry Quick Facts:

- * 29 Faculty Members and 11 Associate Members
- * 20 administrative and research staff
- * 66 Graduate students
- * 35 Post Doctoral Fellows
- * Trainees and scientists from around the world
- * Activities from skiing/snowboarding at Whistler to sailing/wind-surfing in English Bay
- * Lots to choose from within an hour drive
- * International cuisine, local wines and beers, excellent sushi (our grads "say best in Canada")
- * Unsurpassed record of excellence with 2 Nobel Laureates: Michael Smith and Gobind Khorana
- * Home to 5 Canada Research Chairs and other national and international award winners
- * "Tuum Est" - It is up to you and you can change the world

Graduate Admissions

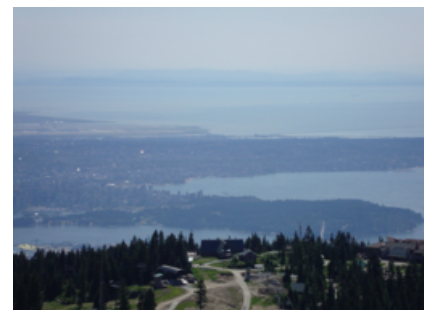
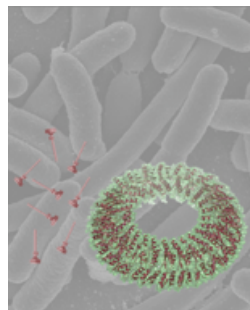
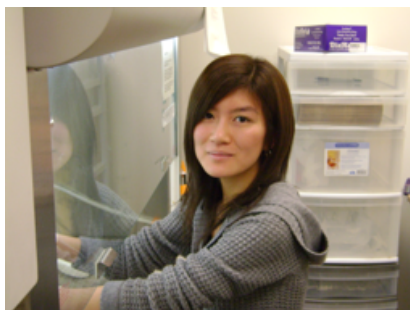
UBC Faculty of Graduate Studies establishes common minimum academic requirements: www.grad.ubc.ca. We offer MSc and PhD programs, which prepare you for a career in research. In your application let us know what interests you and we will provide the environment.

Financial Support

Financial support for grads comes from one or more of four basic sources: merit-based studentships, teaching and research assistantships, need-based awards and research grants. Based on our current enrolment of 66 grads, 45% hold a major studentship (NSERC, CIHR, MSFHR, and 4YF) and all others are supported by research grants.

Contact

Doris Metcalf
Graduate Program Coordinator
ubcbioc-g-graduate@mail.ubc.ca



Grad School @ UBC

UBC offers over 130 master's and doctoral degree programs in nearly every academic field imaginable.

Discover more. www.grad.ubc.ca

The University of British Columbia

UBC is a global centre for research and teaching, consistently ranked among the 40 best universities in the world. Surrounded by the beauty of the Canadian West, UBC embraces bold new ways of thinking that attract exceptional students and faculty. It is a place where innovative ideas are nurtured in a globally connected research community, providing unparalleled opportunities to learn, discover and contribute in one's own way. UBC is a place of mind.