



COLLEGE OF BIOLOGICAL SCIENCE  
Department of Molecular and Cellular Biology

## **Graduate Positions in Molecular Virology, Virus-Host Interactions and Biotechnological Applications**

April 18, 2017

Two graduate positions at either the M.Sc. or Ph.D. level are available in September 2017 in Dr. Meng's laboratory, in the Department of Molecular and Cellular Biology (MCB), College of Biological Science, the University of Guelph. Research projects of the graduate students fall under the broad areas of molecular and cell biology of plant viruses and virus-host interactions and may include: (1) construction of full-length infectious clones, the elucidation of functions and subcellular localization of viral proteins, the structure and composition of virus replication complexes, virus-host interactions, as well as engineering viral vectors for biotechnological applications. These research projects will involve the use of, and expose students to, a wide range of experimental systems, including molecular cloning, qRT-PCR and digital PCR, next generation sequencing, confocal laser scanning and electron microscopy, cell biology, proteomics, bioinformatics, among others.

The Department of MCB, the largest department on campus, is located in the modern Science Complex. It comprises over 40 research programs with diverse expertise in virology, molecular biology and genetics, biochemistry, cell biology, microbiology, structural biology and neuroscience. State of the art research facilities are available within the department or in the Advanced Analysis Centre (AAC). The AAC, also located in the Science Complex, has a broad range of facilities for imaging, DNA sequencing, mass spectrometry, NMR and a modern biotron. These highly diverse research programs and expertise, as well as the tradition of open interactions among faculty, graduate students, postdoctoral fellows and other research staff in MCB offer highly conducive environment for the professional development and career preparation of graduate students.

Dr. Meng's laboratory integrates both fundamental and translational research on pathogenic viruses that are important to the grape and wine industry in Canada and worldwide. Over the years, his research program has made pioneering contributions to the field of grapevine virology. For more information about Dr. Meng's laboratory and the Department of MCB in general, please visit <http://mcb.cbs.uoguelph.ca>

**Who Are Eligible:** Students with a B.Sc. degree in Molecular Biology, Cell Biology, Biochemistry, Microbiology, Plant Science and other related areas of life sciences.

**How To Apply:** please send a cover letter outlining your qualifications, research interest, a recent CV, academic transcripts, and contact information for three references to [bmeng@uoguelph.ca](mailto:bmeng@uoguelph.ca). Best candidates will be shortlisted for an interview.

**Application Deadline:** Applications must be received by July 31, 2017 for consideration of admission for Fall 2017.