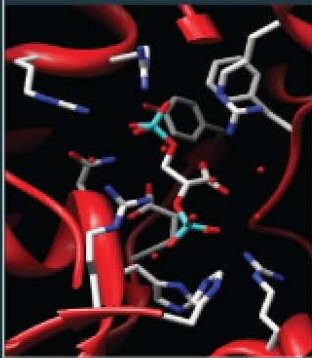


Graduate Program in Molecular and Cellular Biology University of Guelph

UNIVERSITY
of GUELPH

CHANGING LIVES
IMPROVING LIFE

Biochemistry



Cell Biology



Microbiology



Plant Biology



Molecular Biology
& Genetics

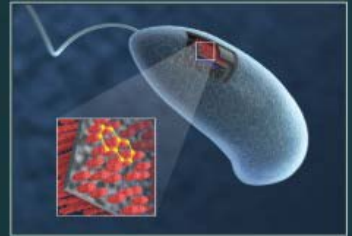
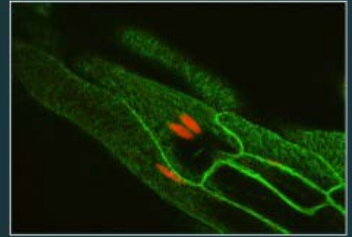
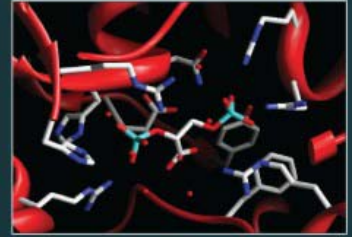


www.uoguelph.ca/mcb/graduate/graduate.shtml

Graduate Program Information
January 2012

Molecular & Cellular Biology...

46 faculty members, 108 grad students, 33 Postdoctoral Fellows/Research Associates and 43 members of research staff pursue interdisciplinary studies in molecular and cellular biology (in W12), 5 of Guelph's 30 Canada Research Chairs, Fundamental and applied research supported by NSERC, CIHR, Cystic Fibrosis, Heart & Stroke and Kidney Foundations, OMAFRA and other agencies (>\$7M/year), Research focused on plants, humans and other animals, prokaryotic and eukaryotic microbes, Science Complex and Advanced Analysis Centre provide state of the art tools applicable to molecular and cellular systems.



Molecular & Cellular Biology...

Central research facilities include:

Confocal Microscopy Unit

Electron Microscopy Unit

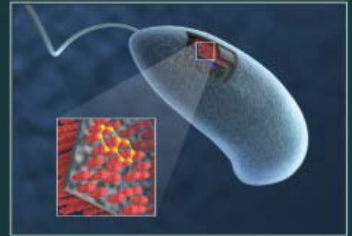
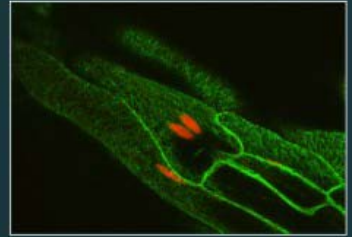
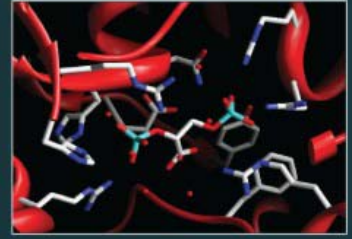
Genomics Facility

Mass Spectrometry Facility

Nuclear Magnetic Resonance

Spectroscopy Centre

Phytotron



The U of G...

Among Canada's top comprehensive Universities,

A leader in life science research that promotes human and animal health, environmental sustainability, biodiversity, food and water quality,

Receives more than \$100 million per year in public and private research funding.



Guelph...

Ranked among the top 10 places to live in Canada,
Lies within an innovative economic region - just east of
Kitchener-Waterloo and 100 kilometres west of Toronto,
Rich in culture, architecture, parks and riverside green
spaces,
Named one of Canada's smartest communities, its safest
city, and its volunteer capital.

M.Sc.

2 years of full time study,

Lab-based thesis research with a faculty member develops, sophisticated technical expertise,

Courses develop experience in literature analysis, written and oral communication,

Graduate Teaching Assistantships develop teaching and communication skills,

Good basis for diverse careers and for transfer to the PhD program.



Ph.D.

4 years of full-time study,

Entry post-BSc, via direct transfer from within the MSc program, or post-MSc,

Thesis research develops scientific creativity and technical expertise,

Seminars, conferences and Graduate Teaching Assistantships develop teaching and communication skills,

Publication authorship develops writing skills,

Essential for careers involving advanced technical skills, research direction and management.



Admissions

Minimum B+ average over last two years of full time study.

Letters of reference indicate research potential, usually based on research lab and/or Coop experience.

Contact prospective thesis research Advisors specializing in:

- | | |
|---|--|
| <ul style="list-style-type: none">▪ <u>Biochemistry</u>▪ <u>Cell Biology</u>▪ <u>Microbiology</u>▪ <u>Molecular Biology & Genetics</u> | <ul style="list-style-type: none">▪ <u>Plant Biology</u>▪ <u>Biophysics</u>▪ <u>Neuroscience</u>▪ <u>Toxicology</u> |
|---|--|

(see <http://www.uoguelph.ca/mcb/research/research-mcb.shtml>)

Write a strong statement; explain your short- and long-term professional goals.

Apply any time to begin studies in January, May or September.

Funding

All students receive a stipend.

Funds derived from faculty research grants (Graduate Research Assistantship), student teaching assignments (Graduate Teaching Assistantship), scholarships

Minimum annual stipend \$19K for MSc, \$21.5K for PhD

Stipends with scholarships \$19K – \$40K, supplemented with GTAs and other awards.

Apply for scholarships before or after entry to graduate degree program

Parental leave benefits available

Funding Examples (S12)

Degree/Award	Scholarship ^a		TCS ^a	GTA ^b	GRA	Total (Minimum)	
	Source	Value					
Master's PGS-M	NSERC	17,300	5000	optional	N/A	22,300	
Master's CGS-M		17,500				22,500	
Doctoral PGS-D		21,000				26,000	
Doctoral CGS-D		35,000				40,000	
Master's CGS-M	CIHR	17,500				22,500	
Doctoral CGS-D		35,000				40,000	
Master's OGS	Ontario	15,000	N/A	5432 ^b	c	c	
Doctoral OGS		15,000				c	
Master's Misc	Other	1000				13,568	20,000
Doctoral Misc	Sources	1000				16,068	22,500
Master's	None	N/A				13,568	19,000
Doctoral		N/A				16,068	21,500

^aMajor scholarships are provided to MCB students by NSERC (Natural Sciences and Engineering Research Council), CIHR (Canadian Institutes for Health Research), the province of Ontario (OGS, Ontario Graduate Scholarship) and other agencies including the Canadian Cystic Fibrosis Foundation (CCFF) and the Heart and Stroke Foundation (HSF). Holders of NSERC or CIHR Scholarships receive a Tri-Council Scholarship (TCS) top-up of \$5000.

^bEach student is entitled to Graduate Teaching Assistantships, subject to satisfactory performance. Usually students receive one GTA per year for two years in the MSc program or three years in the PhD program. GTAs are awarded via a competitive process. The GTA compensation rate is set by Collective Agreement. GTAs constitute an essential part of the stipend for students without scholarship support and they are optional for students with major scholarship support.

^cScholarships with a combined value of up to \$2000 in a given year do not affect the value of GRA support provided to students.

^fGRA brings the total annual stipend to at least \$2000 more than that offered on admission.

Meet our faculty and students, view our facilities

Contact individual faculty members by email and/or telephone to arrange a visit.

Be prepared to discuss your specific interest in their research program.

Submit your application, then contact the Graduate Studies Coordinator to be considered for an expenses-paid visit to our Department.

Contact: Dr. Janet M Wood
Graduate Studies Coordinator
jwood@uoguelph.ca

www.uoguelph.ca/mcb/graduate/graduate.shtml