



PIMS / AMI Seminar



Friday, June 20, 2014
3:00 p.m.
CAB 657

“EGF and Notch signalling in Caenorhabditis vulval development”

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Abstract

During development, many cells respond to signals in their environment by taking on a specific fate. Nematode worms of the *Caenorhabditis* genus develop an egg laying structure called the vulva, and this structure is highly conserved across species. I will discuss a mathematical model of *Caenorhabditis* vulval development that incorporates signalling by the EGF/Ras pathway and the Notch pathway, two common and conserved modules in eukaryotic organisms. By studying differences in cell fate specification between *Caenorhabditis* species, we will demonstrate how cellular responses are regulated by the underlying signalling network. This work is joint with Helen Chamberlin (Molecular Genetics, Ohio State University).

Refreshments will be served in CAB 649 at 2:30 p.m.