

**RYERSON UNIVERSITY
DEPARTMENT OF MATHEMATICS
BIOMATHEMATICS & FLUIDS SEMINAR**

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Date: Thursday, March 7, 2013

Time: 11:10am

Location: ENG 210

Virology in silico: growing infections in a computer

Abstract:

Experimentation in vitro and in vivo has traditionally been the only way to study viral infections. This approach for deriving knowledge often relies on "common-sense" assumptions that go unchallenged due to the difficulties involved in controlling components of these complex systems without affecting others. Mathematical and computer models, however, make it possible to deconstruct an experimental system into individual components and determine how the pieces come together to recreate the observed behaviour. In this talk, I will give examples of computer and mathematical models that challenge the validity of certain in vitro infection experiments, and of experiments that force us to consider more complicated models.

ALL FACULTY, STAFF, STUDENTS AND GUESTS ARE WELCOME TO ATTEND