

# Spatial and Temporal Dynamics of Zoonotic Diseases

A workshop jointly hosted by:

**Geomatics for Informed Decision (GEOIDE), Centre of Excellence  
Mathematics for Information Technology and Complex Systems  
(MITACS), Centre of Excellence  
Public Health Agency of Canada (PHAC)  
The Fields Institute**

**Time: 9:30am – 5:30pm Monday August 9, 2010**

**Location: The lecture Room, the Fields Institute, University of Toronto**

Talks are open to everyone.

Directions: <http://www.fields.utoronto.ca/aboutus/directions.html>

Hotel Info: <http://www.fields.utoronto.ca/resources/housing.html#hotels>



Public Health  
Agency of Canada



# Schedule

**9:30-10:00 Welcome and Introduction**

**10:00 to 12:00am Presentations**

**Marie-Josée Fortin** (University of Toronto) “Spatio-temporal connectivity of malaria”

**Bernard Moulin** (Laval University) “The WNV-MAGS System for the geosimulation and analysis of the West Nile Virus Propagation ”

**Patrick Leighton** (University of Montreal) “Predicting the spatial spread of Lyme disease in Canada”

**Huaiping Zhu** (York University) “Modeling the mosquito growth with weather a case study in Peel Region”

**12:00-1:30 Lunch**

**1:30-4:00 Presentation (Continued)**

**Jared Aldstadt** (New York State University at Buffalo) “Spatial analysis and modeling of Dengue Virus transmission”

**Dongmei Chen** (Queen’s University) “Spatial-temporal analysis of global bird flu outbreaks”

**Rongsong Liu** (University of Wyoming) “The Interaction of migratory birds and domestic poultry and its role in sustaining avian influenza”

**3:00-3:30 Tea break**

**3:30-4:30 Presentation (Continued)**

**Julien Arino** (University of Manitoba) “Studying the spread of infectious diseases using the global air transportation network as a conduit - the Bio.Diaspora Project”

**Kieran Moore** (Queen’s University) “H1N1 Pandemic Surveillance Real time GIS Tools”

**4:30-5:30 Discussion**