

Department of Molecular and Cellular Biology  
**DISTINGUISHED SPEAKER SEMINAR SERIES**

## **Dr. K. Andrew White**

CRC and Professor, Department of Biology, York University



**“How Long-range RNA Interactions  
Control RNA Virus Reproduction”**

**Wednesday, November 30, 2011  
at 12:30 p.m. in THRN 1307**

The genomes of messenger-sensed RNA viruses participate in many essential viral functions in addition to their typical role of encoding viral proteins. In this respect, tombusviruses are quite remarkable because they employ a complex network of long-range RNA-RNA interactions, often spanning thousands of nucleotides, to regulate a wide array of viral processes. Viral events modulated by such RNA-based interactions include: translation of viral proteins, transcription of viral mRNAs, and replication of the viral RNA genome. Information gathered from our RNA structure-function studies have allowed us to begin to build a comprehensive RNA structural model for tombusvirus genomes that includes the different types of RNA-based structures that control diverse viral processes.

*Co-hosts: Dr. Baozhong Meng and Dr. Peter Krell*

*Coffee, Tea & Timbits*

**EVERYONE IS WELCOME TO ATTEND!**

*“A great opportunity to hear leading researchers in the scientific community discuss their work”*