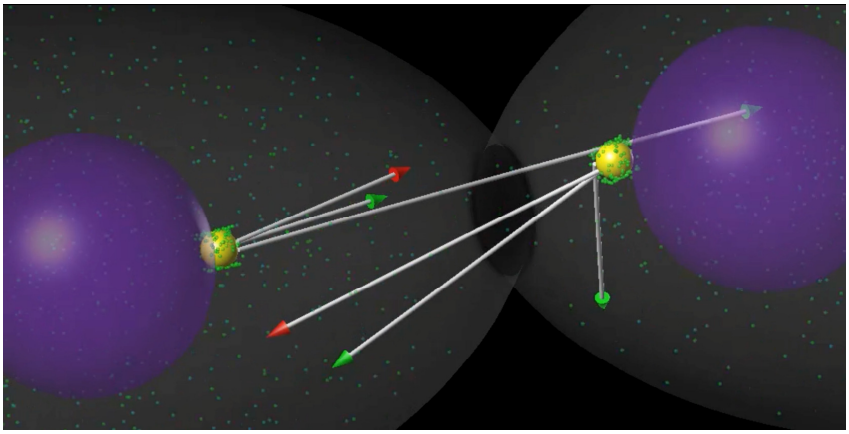
GUEST SPEAKER SEMINAR

Molecular Genetics
UNIVERSITY OF TORONTO

# From microtubule dynamics to systemic approaches of protein behavior



Our laboratory is interested in understanding the function of cells on various levels, from molecular description of cell-morphogenetic processes to a systemic understanding of protein dynamics inside cells.

In this presentation I will first review our work on spindle pole body functions incellular differentiation processes – from mating to meiosis, and I will in depth discuss the molecular mechanisms that enable mating cells to dynamically organizes microtubules and to pull the nuclei towards each other to permit the nuclei to fuse (termed karyogamy).

In a second part of the presentation I will discuss our ongoing efforts to develop (and apply) microscopic methods to retrieve the relevant parameters that describe the dynamic behavior of proteins inside cells, with examples from signaling, endocytosis and proteostasis.


## Dr. Michael Knop

ZMBH, University of Heidelberg, Germany


Host: Dr. Brenda Andrews

**Date:** Thursday June 13, 2013
**Time:** 4:00 p.m.
**Place:** Donnelly CCBR Building
160 College Street
Red Seminar Room