

# BIG seminar 2011-2012

Biology and integrative genomics

**Monday,**  
**\* January**  
**17h**



**Gene Robinson**

University of Illinois

**“Genes and social behavior. Lessons from honey bees.”**

The study of genes and behavior is still a relatively young enterprise. This lecture will discuss some of the first insights to emerge that describe the relationship between genes and behavior, especially findings that the relationship between the regulation of brain gene expression and behavioral plasticity is surprisingly close, reciprocal and modular. The lecture will draw on recent findings from the BeeSpace Project, an NSF-sponsored Frontiers in Biology program that uses honey bees to explore hereditary and environmental influences on gene expression and behavior. Specific genes and molecular pathways to be highlighted will include those involved with juvenile hormone, insulin, and catecholamine signaling and metabolic regulation.