



Molecular and Cellular Biology Seminar Series (Spring 2026)



SCHOOL OF
BIOLOGICAL SCIENCES
Illinois State University

| Date | Speaker | Talk Title |
|-------------|--|--|
| January 28 | Joshua Graunke (Clem lab) | Plant defense interactions using glucosinolates in differing herbivore strategies |
| February 4 | Parham Jazireian (Hammond lab) | Constructing a system to study the <i>Fusarium verticillioides</i> SKC1 spore killer in the model fungus <i>Neurospora crassa</i> |
| February 11 | Brittney Hahn (Clem lab) | Investigating the role of juvenile hormone in regulating migratory phenotype for <i>Chrysoperla plorabunda</i> (Neuroptera: Chrysopidae) |
| February 18 | Andrew Michael (Floyd lab) | When the Air Gets Thin: Bladder Oxygen Levels Drive UPEC Adhesion and Infection |
| February 25 | Nolan Lake (Clem lab) | Potential Mechanisms of Insecticide Resistance in Hover Flies (Diptera: Syrphidae) and their Implications for Pollinator Management in Agroecosystems |
| March 4 | Shahriar Mahmud (Hammond lab) | Investigating the <i>rfk-1</i> -based spore killing in <i>Neurospora crassa</i> |
| March 11 | No seminar Spring Break | No seminar, Spring Break |
| March 18 | Tanisha Bhimwal (Dahl lab) | Evolved mechanisms conferring resistance to Reactive Oxygen and Chlorine Species (RO/CS) in <i>uropathogenic Escherichia coli</i> |
| March 25 | Garrit Stenerson (Sedbrook lab) | Investigating the Genetic Basis for Elevated Heat's Impact on Pennycress (<i>Thlaspi arvense</i>) Seed Germination |
| April 1 | Ryan Bayliss (Sedbrook lab) | Generation and analysis of low glucosinolate pennycress mutants |
| April 8 | Shukhrat Nasrulloev (Olcay Akman group) | Managing Multi-Drug Resistance: An Evolutionary Game Theory and Optimal Control Approach |
| April 15 | Ashley Salzman (Edwards lab) | Dopamine Release in <i>Drosophila melanogaster</i> Medial Mushroom Body in Response to Nutritional Value and Sweet Taste of GMO Yeast Versus Natural Yeast |
| April 22 | Josephine Crisci (Sedbrook lab) | Analyzing Seed Germination of Mutant Drought Tolerant Pennycress (<i>Thlaspi arvense</i> L.) Lines Against Prevalent Germination Inhibitors. |

Noon, Wednesdays, in SLB Rm 121