



# Molecular and Cellular Biology Seminar Series (Spring 2026)



SCHOOL OF  
**BIOLOGICAL  
SCIENCES**  
*Illinois State University*

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