**10:00**  **Welcome and Opening Remarks by Dr. Amy Shaub Maddox – Honors Director, Department of Biology and Dr. Bob Duronio, Department of Biology, Chair**

PRESENTATION SCHEDULE

**10:10 Introduction to ECOLOGY & EVOLUTION**

**10:15 Emma Johnson** “DOC enrichment modulates symbiont density and microbial diversity in the temperate

Coral, *O. arbuscula*”

**10:35 Emma Zhang**  “Effects of divergence on hybrid colonization with Dobzhansky-Muller interactions”

**10:55 Isaac Linn** “Variation maintenance between linked loci under ecological and sexual selection”

11:15 **Caron Loudermelt “**The environmental impact on the immune response of the Indianmeal moth”

**12:00 Introduction to PATHOGENESIS**

**12:15 Paul Karre**  “A single-nucleotide polymorphism mutant of *Enterococcus faecalis* OG1RF increases

gut colonization”

**12:35 Benjamin Hamer** “The treatment order of *staphylococcus aureus* with multiple antibiotics results in

efficacy variance in *vitro*”

**12:55 Anne Urish “**The role of Bax and Bak in modulating the Interferon response in HPV-31 infected cells”

**1:15 Paula Bravver** “*Chlamydia trachomatis* & *C. muridarum* stress response reveals a transcriptional

pathway linking virulence gene expression with persistence”

**2:00 Introduction to BEHAVIORAL NEUROSCIENCE**

**2:15 Jonathan Saju** “Role of µ Opioid Receptor in V1 Spinal Cord Neurons”

**2:35 Riley Picken** “Neuroanatomical Mechanisms of Opioid Analgesia & Addiction in the Anterior

Cingulate Cortex & Primary Somatosensory Cortex”

**2:55 Justice Sexton** “Environmental Learning of *Dendrobates Auratus* in Response to Novel Physical or

Social Experiences”

**4:00 Introduction to CELL SIGNALING: DISCOVERY & APPLICATION**

**4:15 Nash Philbeck** “Mutagenesis-Directed Purification of Monovalent and Bivalent Antibodies”

**4:35 Sarah Torzone** “FSH signaling and pro-growth MAPKs exert opposing effects on the p38 pathways

to coordinate lipid reallocation in *C. Elegans*”

**4:55 Sofien Salmi** “Determining the functions of the type-A Response Regulators in rice”