Biology and Biotechnology Department
Odeum A/B

9:00am
Operation Tick Hunt
Kailey Pitcher
Advisor: Chris Collins
Co-Advisor: Jeff Bergouis

9:00am
Candidate screen for new regulators of cilia assembly in neurons
Jade Martinez
Advisor: Inna Nechipurenko

9:00am
Actin Based Intracellular Transport Networks Adapt to Changes in Cell Shape
Jack Whittaker, Lillian Hanly
Advisor: Shane McInally

9:00am
Yeast Malate Dehydrogenase Investigation
Hayden Bovard, Kalandra Andersen
Advisor: Lou Roberts

9:00am
The Efficacy of Social Media Compared to Restful Activity in the Stress Reduction of College Students
Casey Dowd, Eric Zhong, Abigail Henry
Advisor: Lou Roberts, Stacy Shaw

9:00am
Analyzing Habitat and Avian Community Characteristics of Wood Thrush in Sites Across Massachusetts
Gretchen Ames, Larissa Nogueria Gomes
Advisor: Marja Bakermans

9:00am
Cannabidiol and Anxiety: Finding a Model Experiment for Anxious C. elegans Induced by Predator P. pacificus
Corinn Ouellette
Advisor: Michael Buckholt, Jill Rulfs

9:00am
Modeling the effect of micro plastics on horizontal gene transfer in E.coli
Soven Mehta
Advisor: Michael Buckholt, Jill Rulfs

9:00am
Comparison of Artemisinin Derivatives in Ovarian Cancer Therapy
Alaina Lambert, Drew Apple Vore, Gianna Macchioone, Jeena Desiderio
Advisor: Michael Buckholt, Jill Rulfs

9:00am
Evaluating the Effects of Artemisinin on Estrogen Receptor Signaling and Proliferation in Breast Cancer Cell Lines
Kaitlyn Wannall, Ken Imamura, Talia Gardner, Gwyneth Dube
Advisor: Micheal Buckholt, Jill Rulfs

9:00am
A Scoping Review of gamification elements in nursing education
Alexandra Ryan
Advisor: Jill Rulfs

9:00am
Investigating Cell Motility and Invasiveness in RPE Cells with Suv4-20 Gene Expression Knocked Out
Riann Divine, Faith Myint
Advisor: Amity Manning

9:00am

Fungal Virulence Modulates Behavior via the Gut-Brain Axis

Chantalle Chhoeuk, Samantha Ramon Soto

Advisor: Reeta Rao

9:00am

Assessing Ytterbium Toxicity and Aptamers as Therapeutics Using C. elegans as a Model Organism

Anna Musteata

Advisor: Natalie Farny

9:00am

Characterization of non-canonical SGs via colocalization of G3BP1 and DHX9/Poly A RNA

Alexa Carr, Neha Ozarkar

Advisor: Natalie Farny

9:00am

Investigating the Influence of Hydrogen Peroxide Whitening on the Structural and Chemical Properties of Dentin and Enamel in Bovine Teeth

Dawson Nagy

Advisor: Natalie Farny

Co-advisor: Izabela Stroe

9:00am

A Computational Model of Gene Expression Regulated by GLD-2 in the C. elegans germline

Alison Bawabe

Advisor: Karl-Frederic Vieux

9:00am

Germline-Specific Nuclear HPO-31 is Essential for C. Elegans Fertility

Madeline McFee, Pana Nurgaliyev, Vanessa Reeder

Advisor: Karl-Frederic Vieux

9:00am

Oxidative Stress Pathways Upon Exposure to Pollutants in C. elegans

Emily Rivers

Advisor: Jagan Srinivasan

9:00am

Trust Your Gut! Microbiome Remodeling on Alzheimer's Model Worms Behavior

Mia Francsico, Grace Kidd

Advisor: Jagan Srinivasan

9:00am

Kekkon1 Induced Structural Rearrangement Restricts EGFR Dimerization Interfaces

Sarah Oliviera

Advisor: Joeseph Duffy

9:00am

Compositional and functional analysis of the SCD complex reveals its role in RabE-mediated polarized exocytosis in Physcomitrium patens.

Stasa Roganovic, Natalie Martinez

Advisor: Luis Vidali

9:00am

Role of KhpA and KhpB in Mycobacterium smegmatis Stress Adaptation

Victoria Tuner, Amanda Warchal

Advisor: Scarlet Shell

9:00am

Defining the Roles of Understudied RNases in Mycobacteria: RNase AS and RNase D

Anoushka Mehta

Advisor: Scarlet Shell

9:00am

Investigating the Roles of RNases in rRNA Maturation in *Mycolicibacterium smegmatis*

Aiyina Meng

Advisor: Scarlet Shell

9:00am

A Scoping Review of gamification elements in nursing education

Valli Velmurugan, Amaan Shirwani

Advisor: Benjamin Nephew

9:00am

Cellular Mechanisms of Heat Stress-Dependent Cilia Remodeling

Maya Hardy

Advisor: Inna Nechipurenko

9:00am

Could AlphaFold Be the Missing Linx Between LIGs and New Cancer Therapeutics?

Lauren Coutu

Advisor: Joseph Duffy

9:00am

Nanoparticle Enhancement for Alzheimer's Drug Delivery

Kadidia Fall

Advisor: Jagan Srinivasan, Jim Doyle

9:00am

Investigating GLP-1-induced Neurobehavioral Changes Across Species

Sophia Kousnetzov

Advisor: Jagan Srinivasan

9:00am

Effect of cannabinoids (CBD) on worm behavior and physiology

Laisy Pereira

Advisor: Micheal Buckholt, Jill Rulfs

9:00am

Maternal Mental Health and Birth Control

Brigida Simeoni

Advisor: Jeanine Skorinko, Benjamin Nephew

Bioinformatics and Computational Biology Department
Odeum A/B

9:00am
Evolutionary, In Silico, and Functional Analyses of Kek1 binding to dEGFR
Ava Laughlin
Advisor: Joseph Duffy

9:00am
Experimental and computational methods to explore cell wall properties of tip growing model Physcomitrium patens
Lucas Ramondo
Advisor: Luis Vidali

9:00am
Structural Modeling and Comparative Analysis of Viral Envelope Proteins of Beta coronaviruses
Kai Davidson, Aksel Jensen
Advisor: Dimitry Korkin

9:00am
Structure-Guided Discovery of Conserved RNA Motifs in ROOL and GOLLD Using Multimeric Modeling and Comparative Alignment
Christian Gramajo
Advisor: Dimitry Korkin
Co-advisor: Wenwen Fan and Senbao Lu

9:00am
Declarative Specification for Reference Range Visualizations
Morgan Vasiliou, Zoe Fisk, Skyler Lin, Zachary Medailleu
Advisor: Lane Harrison

9:00am
Regulation of Genome Stability
Anastasia Pashukov
Advisor: Amity Manning

9:00am
Analyzing Trends in Regional Specificity of Bacterial Methylation
Xahria Hatch
Advisor: Natalie Farny