

**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 McNally

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 Nogueira 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: Joeseeph 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: Scarlett Shell

9:00am

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

Anoushka Mehta
Advisor: Scarlett Shell

9:00am

A Scoping Review of gamification elements in nursing education

Aiyina Meng
Advisor: Scarlett 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 Link
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

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