

Oral Presentations 9:00-11:30 AM

Biomedical Science

9:00-9:15 AM Cox, Alexis

Superimposing Celiac Gut Microbiome Metabolites on Healthy Caco-2 Cells to Observe Inflammatory Effects.

9:15-9:30 AM Esenwein, Raegen

The Role of DNA Topoisomerase 1 in Herpes Simplex Virus Type-1 Infections

9:30-9:45 AM Fajardo, Abigail

Increased Levels of Stress Induces a More Metastatic Phenotype in Human Melanoma Cells.

9:45-10:00 AM Franck, Ezabelle

Therapeutic Potential of Chronic Administration of Cannabidiol for Treatment of Anxiety.

10:30-10:45 AM May, Camilla

Can CBD protect against olfactory inflammation and neuronal loss?

10:45-11:00 AM Menlove, Bridger

Therapeutic Effects of Cannabigerol on Immune Cells in Non-Alcoholic Fatty Liver Disease.

11:00-11:15 AM Tackett, Hanna

The Warburg Effect in Acute Myeloid Leukemia.

11:15-11:30 AM Acosta, Anna

Behavioral effects of turmeric on short-term memory in an Alzheimer's model of *Caenorhabditis elegans*.

Ecology & Environment

9:00-9:15 AM Echevarría-Bonilla, Oswaldo

Effects of non-natural light on leatherback sea turtle (*Dermochelys coriacea*) hatchling orientation on the northwestern of Puerto Rico.

9:30-9:45 AM Jaramillo, Angie

Understanding How Oomycete Plant Pathogens Interfere With PAMP-triggered Immunity in Soybean Williams and *Solanum lycopersicum* plants.

9:45-10:00 AM Joshi, Meenal

Background Levels of Intersex in Largemouth Bass (*Micropterus salmoides*) Revealed Through Histological Evaluation of Gonadal Tissue from Three Interconnected Water Bodies.

10:30-10:45 AM Lynch, Arilyn

The Harder They Fall: Measuring the Decline of a Green Ash Swamp Forest Due to Emerald Ash Borer Damage in North Carolina.

10:45-11:00 AM Maietta, Nathan and Skyler Sevako

Insect Diversity on Two Green Roofs on the Campus of Gannon University, Erie, PA

11:00-11:15 AM Norton, Jenevieve

Causes and Consequences of Nest-site Fidelity in a Tropical Bird.

11:15-11:30 AM Lenahan, Bridget

Investigation of Harmful Algal Blooms caused by Cyanobacteria in the Lake Ontario Embayment.

Molecular and Microbiology

9:00-9:15 AM Farnsley, Payden

Microbial Analysis of Regolith-grown Species on Mars.

9:15-9:30 AM Fuller, Gwynna
Nuclear Versus Cytosolic Expression of Goosecoid During Neuroblast Delamination in the Chicken Otocyst.

9:30-9:45 AM Gaona, Isabella
The Effect of Topoisomerase II on Zebrafish Behavior and Neural Organization.

9:45-10:00 AM Kaimari, Abdurraheem
Novel Lead Compounds Demonstrating Anti-biofilm Properties in *Staphylococcus aureus* May Act as Nor-A Efflux Pump Inhibitors.

10:30-10:45 AM Matt, Laura
Antibacterial Properties of a Novel 1,2,4 Oxadiazole.

10:45-11:00 AM Quiñones Barreto, Miliarys
Optimization of RNA Extraction Yields from White Blood Cells of Bovines With Mastitis.

11:00-11:15 AM Rushanika, Shukuru
Utilizing Nur77 as a Surrogate Biomarker for CD8+ T cell Activation to Assess the Immunological Effects of Berberine and Exercise.

11:15-11:30 AM Floyd, Evan
The Patent Pending HEFY Assay: A Novel Assay for Biofilm Inhibition in *Bacillus subtilis* and *Staphylococcus aureus*.

Poster Session 1:30-3:30 PM

Biomedical Science

Poster # 1 Chekuri, Isha
Mitochondrial Dynamics are Disrupted in CVB3 Acute Myocarditis.

Poster # 2 Coffman, Electra
PA28 γ Regulation of H4K20me3 Under Genotoxic Stress.

Poster # 3 Ferlan, Emma, Priya Gupta, and Grace Callahan
Dietary Impacts on Development in Fruit Flies (*Drosophila melanogaster*).

Poster # 4 Lane, Ethan
Quantifying p53 Regulated Genes in a Zebrafish Melanoma Model.

Poster # 5 Newman, Tabitha
The Effects of Topoisomerase II Inhibition with Hu-331 or Cannabidiol on Embryonic Cell Death

Poster # 6 Romo, Caroline
Micromolar Concentrations of Methionine Aminopeptidase Inhibitor Has Little Cytotoxic Effect on Cancerous and Non-cancerous Mammalian Cells.

Poster # 7 Slotnick, Nathan
Inducible BORIS Expression in HCT116 Cells.

Poster # 8 Stone, Nicole
Role of STC1 Gene in Proliferation and Invasion of Lung Cancer Stem Cells.

Poster # 9 Teodoro, Lara Isis
Matryoshka Virus; Investigating Protein Function

Poster # 10 Webster, Emilie L.
The Effect of HAE-RND Efflux Pump Expression on Aminoglycoside Sensitivity in *Escherichia coli*.

Ecology & Environment

Poster # 11 Al-Rubayie, Raunak

Remote Sensing Freshwater Bacteria in Great Lakes.

Poster # 12 Cossey, Larry

Detecting Variations in Microbial Concentrations in Oklahoma Lakes.

Poster # 13 Estrella, Catrina and Nanyely Arno

Is There a Trade-off Between Reproduction and Longevity?

Poster # 14 Givens, Gina

Data Needs for Designing and Implementing Go Slow Zones to Mitigate Impacts on Sea Turtles.

Poster # 15 Leonhardt, Justin

Microbial Soil Community Profiling of Grace Street Park Outer Walking Paths in Greenwood, South Carolina through Illumina MiSeq Sequencing.

Poster # 16 Plymale, Aubree

The Evaluation of Prescribed Fire Frequency and Burn Severity on the Ecological, Chemical, and Microbiological Soil Parameters in Post-agriculture Plots.

Poster # 17 Quintanilla, Cristofher

PLTL Sessions in an Introductory Biology Class and Their Effects.

Poster # 18 Ray, Sam

Molecular identification of arthropods colonizing decomposing meso-mammalian carcasses.

Poster # 19 Sheridan, Bianca

The Maize-10-Maze Project, an Educational Public Chromosome Map Garden Featuring the Mutants of Maize.

Poster # 20 Swartzentruber, Zachrey

Heads up: The Effects of Age, Sex, and Group Size on Vigilance in White-tailed Deer.

Poster # 31 Ghimire, Purnima

Exposure of Predator Scent to Vanessa Claudi Changes Their Behavior Toward Predator Scent.

Poster # 32 Milligan, Johnathan

Sophisticated Beanwater.

Molecular and Microbiology

Poster # 21 Barry, Ashley

Sucralose and the Commensal Species of the Gut Microbiome.

Poster # 22 Calbaza, Gia-Maria

Implementing Transposon Mutagenesis to Investigate Proteins That Alter the Expression of Bacterioferritin Comigratory Protein in *Bacillus subtilis*.

Poster # 23 De Lucia, Ayuni

Leishmaniasis; Combatting Vault Shell Drug Resistance

Poster # 24 Enos, Madeleine

The Hsp90 Chaperone Regulates p38 Activation During ER Stress.

Poster # 25 Gonzalez, Mariangelis

The Role of klp-13 in Phasmid Neurons in *C. elegans*.

Poster # 26 Mota, Rosabely

Lack of LPS-induced LRRC8A Transcription Despite Presence of NF- κ B Binding Site.

Poster # 27 Severude, Christine

Characterization of the Role of Notch in *Drosophila* Testes.

Poster # 28 Singh, Harpiarjit

Involvement of the Endosomal Recycling System in the Control of Endothelial Barrier Function.

Poster # 29 Snide, Austin

Eggshell Organizing Factor 1 Protein in *Psorophora ferox* Mosquitoes.

Poster # 30 Strotman, Megan

Investigating Potential Circadian Oscillations in *Pseudomonas syringae*.