



BETA BETA BETA BIOLOGICAL HONOR SOCIETY



2022 National Convention – Frank G. Brooks & John C. Johnson Winners

Brooks Award Winners:

Biomedical Science

1st: Raegen Esenwein, Xi Psi, Duquesne University. The Role of DNA Topoisomerase 1 in Herpes Simplex Virus Type-1 Infections.

2nd: Alexis Cox, Sigma Tau, The Florida State University. Superimposing Celiac Gut Microbiome Metabolites on Healthy Caco-2 Cells to Observe Inflammatory Effects.

3rd: Ezabelle Franck, Sigma Tau, The Florida State University. Therapeutic Potential of Chronic Administration of Cannabidiol for Treatment of Anxiety.

Ecology & Environment

1st: Arilyn Lynch, Tau Eta, Catawba College. The Harder They Fall: Measuring the Decline of a Green Ash Swamp Forest Due to Emerald Ash Borer Damage in North Carolina.

2nd: Jenevieve Norton, Sigma Tau, The Florida State University. Causes and Consequences of Nest-site Fidelity in a Tropical Bird.

3rd: Angie Jaramillo, Upsilon Zeta, Mercy College. Understanding How Oomycete Plant Pathogens Interfere With PAMP-triggered Immunity in Soybean *Williams* and *Solanum lycopersicum* plants.

Honorable Mention: Meenal Joshi, Mu Omicron, Columbus State University. Background Levels of Intersex in Largemouth Bass (*Micropterus salmoides*) Revealed Through Histological Evaluation of Gonadal Tissue from Three Interconnected Water Bodies.

Molecular And Microbiology

1st: Laura Matt, Sigma Theta, Texas Wesleyan University. Antibacterial Properties of a Novel 1,2,4 Oxadiazole.

2nd: Gwynna Fuller, Chi Chapter, Drury University. Nuclear Versus Cytosolic Expression of *Gooseoid* During Neuroblast Delamination in the Chicken Otocyst.

3rd: Evan Floyd, Beta Omega, Mercer University. The Patent Pending HEFY Assay: A Novel Assay for Biofilm Inhibition in *Bacillus subtilis* and *Staphylococcus aureus*.



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John C. Johnson – Poster Presentations:

Biomedical Science

1st: Nicole Stone, Xi Chapter, Ohio University. Role of *STC1* Gene in Proliferation and Invasion of Lung Cancer Stem Cells.

2nd: Emilie L. Webster, Omicron Omicron, Saint Michael's College. The Effect of HAE-RND Efflux Pump Expression on Aminoglycoside Sensitivity in *Escherichia coli*.

3rd: Nathan Slotnick, Rho Chi, Bloomsburg University. Inducible BORIS Expression in HCT116 Cells.

Honorable Mention: Emma Ferlan, Priya Gupta, and Grace Callahan, Upsilon Beta, Saint Francis University. Dietary Impacts on Development in Fruit Flies (*Drosophila melanogaster*).

Ecology & Environment

1st: Larry Cossey, Delta Sigma, Southwestern Oklahoma State University. Detecting Variations in Microbial Concentrations in Oklahoma Lakes.

2nd: Zachery Swartzentruber, Psi Theta, Lander University. Heads up: The Effects of Age, Sex, and Group Size on Vigilance in White-tailed Deer.

3rd: Johnathan Milligan, Omicron Phi. Southern Nazarene University. "Sophisticated Beanwater."

Honorable Mention: Bianca Sheridan, Sigma Tau, Florida State University. The *Maize-10-Maze* Project, an Educational Public Chromosome Map Garden Featuring the Mutants of Maize.

Molecular & Microbiology

1st: Ashley Barry, Gamma Delta Alpha, Bryan College of Health Sciences. Sucralose and the Commensal Species of the Gut Microbiome.

2nd: Gia-Maria Calbaza, Omega Epsilon, Bradley University. Implementing Transposon Mutagenesis to Investigate Proteins That Alter the Expression of Bacterioferritin Comigratory Protein in *Bacillus subtilis*.

3rd: Megan Strotman, Delta Sigma, Southwestern Oklahoma State University. Investigating Potential Circadian Oscillations in *Pseudomonas syringae*.