

2022 SUMMER INTERNSHIP PROGRAM



George and Helen Kohut Symposium

2022 Poster Presentations

Victoria Adigun (McArt), *Bees & Disease: Identifying Crithidia bombi in wild bees*

Trey Ansani (Jander and Stroock), *Investigating AquaDust as a real-time monitor of the leaf water potential in drought related genotypes of Nicotiana Benthamiana*

Caroline Artymowicz (Jander), *Subcellular localization and role in pollen development of the jasmonic acid receptor (COI) protein family in Zea mays*

Jasmin Buffenn (Giovannoni), *Variation Analyses of Carotenoid Metabolites and Gene Expression Across Multiple Tomato Accessions*

Adam Cason (Fei), *SpinachBasev2: An updated central portal for spinach genomic tools and information*

Maddie Ceminsky (Stern), *Toward a Fine Characterization of Ribonuclease J*

Collin Deman (Li Li), *investigating the role of ISOPENTENYL-DIPHOSPHATE ISOMERASE in regulating vegetative growth and biomass in Arabidopsis thaliana*

Regan Griffin (Nelson), *Investigating the functional role of long non-coding RNA in seed germination and seedling development*

Joanna Idrovo (Richards), *Probing Nuclei in Insect and Plant Cells*

Anna Lipari (Li), *Developing Griffithsia monilis as a model for the study and kinetic optimization of rubisco*

Olive LoGrasso (BCBC), *Using Genomics to Understand Species Distribution in Threatened Aconitum noveboracense*

Isabella Marshall (Kao-Kniffin and Lal), *Rhizosphere-on-a-chip for Microbiome Studies*

Hanifah Muhammad (McArt), *Does size matter? Crithidia and body size in wild bees*

Holly Myers (Poveda), *Exploring how Landscape Simplification influences plant defensive strategies as mediated by shifts in herbivore populations*

Anamaria Paez Capador (Jander), *Structural diversity in Cardenolides: gaining insights into the biosynthetic pathway*

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Eliza O'Donnell (Lewenstein and Frank), *Deconstructing and visualizing barriers: comparing social engagement in science to intercellular communication in tomato plants*

Umer Shah (Jander), *Investigating the role of the IAA-amidosynthase enzyme in mediating herbivore defense responses in maize (*Zea mays*)*

Mali Simmons (Nelson), *Phenotypes of sORFs containing lncRNA mutants using low and high throughput methods*

Jenna Sins (Li), *Exploring the Biolistics gene transfer approach with the model Hornwort *Anthoceros agrestis**

Amick Sollenberger (Gore and Shepard), *Investigating methods for belowground phenotyping through manual sampling in maize and development of an earthworm-inspired robot*

Harsha Somaya (Gore), *Utilizing PICRUSt2 to determine correlations between maize genetic factors and microbial (de)nitrification abundance*

Victoria Swiler (Van Eck), *Understanding the roles of plant hormones in *Physalis grisea* fruit drop*

Angely Toro-Casiano (Kessler), *Plant Resistance: Changes in Secondary Metabolite Profile of Intercropped Maize*

JJ Wheeler (Pawlowski), *Examining the effects of domestication on recombination landscape in maize*

David Zimmerman (Frank and Studer), *Investigating the Role of C-Terminally Encoded Peptides in Root System Architecture in *Solanum lycopersicum**

High School Poster Presentations, in room 215

Benjamin Beer (Fei), *Characterizing the Presence/Absence of Genes in Wild and Cultivated Watermelon*

Ella Blomfield-Brown (Skiryocz), *Investigating the effect of small-molecules on growth in Tobacco (*Nicotiana tabacum*) plants under stress*

Ting Fei (Julkowska), *Exploring salt stress on *Arabidopsis thaliana* growth with DUF247 genes*

Anna Fulbright (McArt), *Exploring the Relationship Between Flower Richness and Bees Infected with *Crithidia bombi**

Palzom Lhamo (BCBC), *Determining if acetogenins produced by pawpaw trees are defensive*

Noor Maghaydah (Kessler), *Effect of Polyacetylenes Released by Tall Goldenrod on Native Species*

Lily Yang (Jander), *Transportation of cardiac glycosides across tissues in Milkweeds (*Asclepias*)*

Stephen Yang (Giovannoni), *Exploring the Role of Ethylene in the Melon Carotenoid Pathway*