

AUGUST 22, 2025



MESA STEM RESEARCH SYMPOSIUM PROGRAM

Project Title

Presenter

Single vs. Double Genetic Manipulations of Intestines
Stem Cells in *Drosophila melanogaster*

Isabella Aeschlimann

Characterization and Functional Annotation of
Germline RB1 Variants from Peripheral Blood
Mononuclear Cells in Retinoblastoma Patients

Scarlet Affa

Light-Responsive Behavior of Pyrrole-Derived
DASA Molecules

Stephen Affa

Understanding Ultrafast Phenomena through
Spectroscopy

Tatiana Cherbaeva

Engineering Alpha-Synuclein Fragments: Combining
Protein Expression and Chemical Synthesis

Brenda Epstein

Soil moisture dynamics across microclimates at
Jasper Ridge Biological Preserve and implications for
soil respiration.

Jessica Juarez Ramirez

Testing Antibiotic Resistance of *Macrocystis pyrifera*
for Utilization in Axenic Cultures

Raina Paeper

Achieving Interligand Charge Transfer in
Imidazolium-based Carbene-M-Amids (CMAs)

Melanie Suarez Rubio

Establishing PCR-Based Genotyping to Screen for
Transgenic *Macrocystis pyrifera* Strain

Yafei Wen

Testing Nutrient Media for Kelp Gametophyte Growth

Brandon Wolfson