

SFSU Undergrad Summer Research Symposium
Seven Hills Conference Center
Room XXX
August 5, 2017

8:00 AM Morning refreshments

8:30 AM Opening Remarks

9:00 AM Keaka Farleigh, NSF REU; Kimmerer Lab

Variability in development rate within and between clutches from individual female copepods (Pseudodiaptomus forbesi)

9:12 AM Sofia Kakaizada , NIH SF BUILD; Benet Lab

Novel blood formulation for neurosurgical simulation and anastomosis training

9:24 AM Maria Contreras, NIH NIH MARC; Buchard/White Lab

A Genome-wide Association Study of Telomere Length in African American Children with and without Asthma

9:36 AM Mervin Garcia, NIH BRIDGES; Chu Lab

Destabilization of Microtubules through degraded CLASP (CLS-2) causing Male Infertility

9:48 AM Natassja Punak, NSF REU; Cohen Lab

Growth Rates in Varying Flow Conditions of Botryllus schlosseri and Botrylloides violaceus

10:01 AM Tojo Chemmachel, NIH SF BUILD; Gazzaley/Anguera Lab

Representation in Science - Understanding Latino Mortality Rates in Mobile Studies

10:13 AM Hilda Marquez, NIH BRIDGES; Marquez-Magana Lab

Mapping Hair Cortisol Concentrations Across Body Sites to Study Health Disparities

10:25 AM Cynthia Perez, NIH MARC; Marquez-Magana Lab

Assessing the impact of Adverse Childhood Experiences on the Biological Stress Response

BREAK

10:45 AM Jonathan Ontiveros, NIH BRIDGES; Hughes Lab

Community-Based Telerehabilitation in sub-Saharan Africa

10:57 AM Alonso Torres, NIH BRIDGES; Roy(UCSF) Lab

Measuring Islet Insulin Production Rates Using Silicon Nanopore Membranes with Varying Ultrafiltrate Rates

11:09 AM Edward Deshawn Hopson, NIH MARC; Pennings Lab

Frequency Analysis of HIV Drug Resistant Mutations During Common HAART Regimens

11:21 AM Gabriella Tenorio, NSF REU; Pennings Lab

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Estimating the Fitness Cost of a Resistance Mutation in HIV-1 infected Women

11:33 AM Sarina Martinez Benavidez, NSF REU; Swei Lab

Prevalance of Borrelia miyamotoi in larval Ixodes pacificus reveals pathogen transmission dynamics

11:46 AM Ives Rdialul, NIH BRIDGES; Swei Lab

Quantifying Endosymbiont Abundance in the California Lyme Disease Vector

**12:00 PM POSTER SESSION
LUNCH in Lobby**

1:30 PM Jean Luke Campos & Roberto Carlos Segura, NIH MARC; Chan Lab

Characterizing the Relationship Between Vacuolar pH and Vacuole Size

1:54 PM Katherine Stennette, NSF REU; Crook Lab

Injured cuttlefish (Sepia bandensis) shows signs of increased sensitivity to sound

2:06 PM Anthony Bravo, NIH MARC; Komada Lab

Organic Carbon in Salt Marsh Sediments: Where Did it Come From? Where is it Going?

2:18 PM Juliet Gonzales, NIH MARC; Esquerra Lab

Characterization of Hepatitis B Surface Antigen Derived from Maize

2:31 PM Philipp Meléndez, NIH MARC; Esquerra Lab

Biochemical and Biophysical Characterization of Recombinant Ag2IPRA protein from Coccidioides posadasii

2:43 PM Kaila Javius-Jones, NIH RISE; Gassner Lab

Reaction of Phenylacetaldehyde Dehydrogenase (PADH) with Thiol Substrates

BREAK

3:20 PM Beth Kristi Morin, NIH SF BUILD; J. Chen Lab

Regulation of exopolysaccharide production in Rhizobia-legume symbiosi

3:32 PM Josue Ceron, NIH MARC; J. Chen Lab

Effects of environmental pH on a conserved signaling pathway in symbiotic bacteria

4:08 PM Ricardo Solis, NIH MARC; Riggs Lab

Determining if slam is involved in asymmetric partitioning of the endoplasmic reticulum during mitosis in epithelial cells in Drosophila m. embryos

4:21 PM Luis Gutierrez, NSF REU; Riggs Lab

Can Endoplasmic Reticulum stress be used as a biosensor?

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4:33 PM **Khayla Shabazz & Natasha Nand, NIH MARC; Riggs Lab**
Performing Deficiency Screens to Observe Jagunal Interactions That Aid in Cell Fate Determination

Closing Remarks

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- 9:00 AM** **Francisca Catalan, SEO scholars; Rohlfs Lab**
Convergent Morphological Evolution in Petrolisthes
- 9:12 AM** **Ana Remis, NSF REU; Chang Lab**
Salinity tolerances of the invasive Gemma gemma clam
- 9:24 AM** **Eduardo Deloza, NIH BRIDGES; Domingo Lab**
*Distinguishing the functional analysis of miR-1a & miR-206 in muscle cell fate in *Xenopus laevis**
- 9:36 AM** **Juan Velázquez Matos, NSF REU; Domingo Lab**
*Analysis of the MUSA1 Ubiquitin E3 Ligase Subunit in *X. laevis* Muscle Development*
- 9:48 AM** **YingCong Johnson Yang, NIH SF BUILD; Domingo Lab**
*The morphology of muscle development in *Xenopus Tropicalis**
- 10:01 AM** **Harold Brizard, NSF REU; Fuse Lab**
*The effect of cycloheximide on blocking long-term nociceptive sensitization in the hornworm, *Manduca sexta**
- 10:13 AM** **Samuel Reveles, NIH BRIDGES; He Lab**
*Genetic Analysis of Vitamin B6 Homeostasis Signaling in *Arabidopsis**
- 10:25 AM** **Andres Rivas, NIH RISE; Kuhn Lab**
Examining the importance of the $\beta 6$ - $\beta 7$ region of GNAT proteins on substrate specificity

BREAK

- 10:45 AM** **Natasha Crawford, NIH SF BUILD; Rebchook Lab**
M+ Clinical Intervention Method to Engage Young MSM of color in Care
- 10:57 AM** **Sarina Qin, PINC; Rohlfs Lab**
Modeling the Evolutionary Process of Alternative Splicing
- 11:09 AM** **Brook Jensen, NSF REU; Simonin Lab**
*Impacts of polyploidy in *Vireya Rhododendron* on physiology and biogeography*
- 11:21 AM** **Matt Paunovich, NIH BRIDGES; Rohlfs Lab**
Distinguishing True Contributors in a DNA Mixture Through Forensim
- 11:33 AM** **Matthew Orellana, NIH MARC; Wu Lab**
Solvent Effect in Nucleophilic Aromatic Substitution Reactions
- 11:46 AM** **Cieleau Spearman, NIH BRIDGES; Zink Lab**

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Associative Learning in Anisolabis maritima

12:00 PM POSTER SESSION
LUNCH in Lobby