21st Annual Research & Creative Works Symposium

CSUNposium

A Student Showcase

April 7, 2017

8:00 AM – 4:00 PM

University Student Union

California State University, Northridge
April 7, 2017

Dear Student Participants, Faculty and Staff:

Welcome to the CSUNposium (also known as the 21st Annual Student Research & Creative Works Symposium) at California State University, Northridge. We are pleased that you have found time to attend this truly significant academic event and experience the impressive variety of research conducted by our undergraduate and graduate students.

The opportunity to participate in academic research and creative activities is an important component of the educational experience available to students at Cal State Northridge. The poster and oral presentations at today’s symposium demonstrate our students dedication to research and scholarship. Their research addresses fundamental questions in the arts, sciences, and technology.

The University’s distinguished faculties are at the heart of the research you see today. They are responsible for supporting the rich variety of research and scholarly opportunities available to students at CSUN. As many of our alumni will tell you, working with their professors prepared them for success in advanced degree programs. In fact, the National Science Foundation ranks CSUN as one of the nation’s top rated master’s degree granting institutions for graduating students who later earn doctorates in Psychology, Science, Engineering, and Biology. Our commitment to traditionally underserved students is notable as well. According to the Hispanic Outlook in Higher Education, CSUN is ranked second in the nation for awarding Hispanic students degrees in Liberal Arts and Humanities, third in Psychology, fourth in Communication Studies and Journalism and fifth in both Social Sciences and Visual and Performing Arts. Research and creative activity are essential to achievement in these programs.

Please join us in thanking our students for their presentations and in celebrating their academic accomplishments.

Dianne F. Harrison
President

Yi Li
Provost

Crist Khachikian
Associate Vice President
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## Schedule of Events

*Friday, April 7, 2017*

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<tr>
<td>8:00 AM</td>
<td>Check-In (packet pick-up) *</td>
<td>USU Northridge Center</td>
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<tr>
<td>8:30 AM</td>
<td>3-Minute Oral Presentations</td>
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<tr>
<td>8:30 AM</td>
<td>Session 1 All Disciplines-Graduates</td>
<td>USU Lake Balboa Room</td>
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<tr>
<td>9:30 AM</td>
<td>Session 2 All Disciplines-Undergraduates</td>
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<td>8:30 AM</td>
<td><strong>Morning 10-Minute Oral Presentations</strong></td>
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<td></td>
<td>Session 1 College of S&amp;BS</td>
<td>USU La Crescenta</td>
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<td>Session 2 College of HHD &amp; S&amp;BS</td>
<td>USU Panorama City</td>
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<td>Session 3 College of CECS</td>
<td>USU Tujunga</td>
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<td>Session 4 College of S&amp;M (Biology)</td>
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<td>Session 5 College of S&amp;BS</td>
<td>USU Burbank Room</td>
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<td>Session 6 College of S&amp;M (Biology)</td>
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<td>Session 7 College of S&amp;M and S&amp;BS</td>
<td>USU Lake View Terrace</td>
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<td>Session 8 College of S&amp;M (Biology)</td>
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<td>Session 9 College of S&amp;M</td>
<td>USU Ventura Room</td>
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<td>Session 10 College of HHD (starts at 11:00 AM)</td>
<td>USU Lake Balboa Room</td>
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<td>10:00 AM</td>
<td><strong>Morning Poster Presentations</strong></td>
<td>USU Northridge Center</td>
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<td>12:00 PM</td>
<td>Lunch*</td>
<td>USU Northridge Center</td>
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<td>12:30 PM</td>
<td><strong>10-Minute Oral Presentations</strong></td>
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<td>Session 11 College of S&amp;BS</td>
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<td>Session 12 College of Education</td>
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<td>Session 13 College of CECS</td>
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<td>Session 14 College of AMC and S&amp;BS</td>
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<td>Session 15 College of HUM</td>
<td>USU Flintridge</td>
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<td>Session 16 College of S&amp;M (Biology)</td>
<td>USU Lake View Terrace</td>
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<td>Session 17 College of S&amp;M (Biology)</td>
<td>USU Pasadena Room</td>
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<td>1:00 PM</td>
<td><strong>Afternoon Poster Presentations</strong></td>
<td>USU Northridge Center</td>
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<td>3:30 PM</td>
<td>Awards Ceremony*</td>
<td>USU Grand Salon</td>
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*Refreshments will be served*
3-Minute Oral Presentation Session 1
8:30 AM - 9:20 AM-Lake Balboa Room

8:30 AM  Mehran Safisamghabadi
Graduate, Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Abstract Title: Treatment of Pain Along Spinal Cord Using Bifocal Ultrasound

8:36 AM  Caroline Gross
Graduate, Department of Geological Science
Faculty Mentor: Elena Miranda
Abstract Title: Understanding strain localization and magma transport through plagioclase deformation mechanisms at work in the lowest crust of Fiordland, NZ

8:42 AM  Lonnie Hufford
Graduate, Department of Geological Science
Faculty Mentor: Elena Miranda
Abstract Title: Strain localization in a long-lived transpressional shear zone within arc crust: microstructural, geochemical, and geochronologic investigation of the Grebe Mylonite Zone in Fiordland, New Zealand

8:48 AM  Courtney McGinn
Graduate, Department of Geological Science
Faculty Mentor: Elena Miranda
Abstract Title: Investigation of strain localization in the South Fiord Extension of the Grebe Mylonite Zone utilizing plagioclase and quartz deformation in Fiordland, New Zealand.

8:54 AM  Rocio Rincon
Graduate, Department of Social Work
Faculty Mentor: Allen Lipscomb
Abstract Title: Building Safe and Healthy Queer Communities: Addressing Intimate Partner Violence Among L.G.B.T.Q. Womxn of Color

9:00 AM  Sandra Sanchez Conde & Placido Saldivar
Graduate, Department of Social Work
Faculty Mentor: Judith DeBonis
Abstract Title: The Emotional Journey Behind the Decision; Stories from Conservators of Aging Adults with Intellectual Disabilities

9:06 AM  Marisela Romero Alvarez & Kristal-Rose Ramos
Graduate, Department of Social Work
Faculty Mentor: Allen Lipscomb
Abstract Title: Perspectives of Los Angeles County Child Welfare professionals towards the protection of the social work profession
Daniels LaFrance
Graduate, Department of Biology
Faculty Mentor: Cindy Malone

Abstract Title: Comparing Expression of Protein Markers in Small Cell Lung Cancer Cell Lines Cultured in 2D Versus 3D Cancer Organoid System
3-Minute Oral Presentation Session 2  
9:30 AM - 10:20 AM - Lake Balboa Room

9:30 AM  Melissa Guardado  
Undergraduate, Department of Civil Engineering and Construction Management Technology  
Faculty Mentor: Tadeh Zirakian  
**Abstract Title:** Structural Engineering Encountering Laboratory: Single-Story, Single-Bay Portal Frame

9:36 AM  Frida Endinjok  
Undergraduate, Department of Family and Consumer Sciences  
Faculty Mentor: Annette Besnilian  
**Abstract Title:** Let's Grow Healthy: Evaluating the Effectiveness of Garden Enhanced Nutrition Education in Elementary School Children

9:42 AM  Gema Ludisaca  
Undergraduate, Department of English  
Faculty Mentor: Heidi Schumacher  
**Abstract Title:** "Anchor Baby"

9:48 AM  Hermes Rocha  
Undergraduate, Department of Philosophy  
Faculty Mentor: Heidi Schumacher  
**Abstract Title:** There is No Pain Like Pain Itself

9:54 AM  Olivia Roberts  
Undergraduate, Department of Cinema and Television Arts  
Faculty Mentor: Dianah Wynter  
**Abstract Title:** Company of Wolves and Matriarchal Narrative Structure

10:00 AM  Quinton Cameron  
Undergraduate, Department of Biology  
Faculty Mentor: Gilberto Flores  
**Abstract Title:** Development of a model system to examine interactions between Akkermansia muciniphila and the human gut.

10:06 AM  Jacki Manoukian  
Undergraduate, Department of Chemistry and Biochemistry  
Faculty Mentor: Jessica Vey  
**Abstract Title:** The Effect of mutagenesis of H391 residue on dibenzothiophene monooxygenase (DszC)
10:12 AM  Cody Newman
Undergraduate, Department of Psychology
Faculty Mentor: Erica Wohldmann

Abstract Title: Do Vending Machines Fool Us? An Exploration of the Health Halo
10-Minute Oral Presentation Session 1
College of Social and Behavioral Sciences, 8:30 AM - 11:20 AM - USU La Crescenta Room

8:30 AM  
Katie Alegria  
Graduate, Department of Psychology  
Faculty Mentor: Erica Wohldmann  
Abstract Title: Does Nature Make Us Smarter?

8:50 AM  
Ute Anderson & Alexander Petro  
Graduate, Department of Social Work  
Faculty Mentor: Alejandra Acuna  
Abstract Title: Multiple identities of student sex workers: Understanding their motifs, opinions, and needs

9:10 AM  
Jasmine Awad  
Graduate, Department of Psychology  
Faculty Mentor: Stefanie Drew  
Abstract Title: Teal is Less Than Purple: A study on bidirectionality in synesthesia

9:30 AM  
Alberto Corona  
Graduate, Department of Social Work  
Faculty Mentor: Allen Lipscomb  
Abstract Title: Building Resilience amongst Crossover Youth

9:50 AM  
BREAK

10:00 AM  
Michelle Durazo & Andria Saenz  
Graduate, Department of Social Work  
Faculty Mentor: Judith DeBonis  
Abstract Title: Perceptions of Corporate Social Responsibility and Social Worker Amongst Corporate Business Managers

10:20 AM  
Karen Gilbert & Stacy Blanco  
Graduate, Department of Social Work  
Faculty Mentor: Jodi Brown  
Abstract Title: Parents of Frostig: Exploring the Transition Experience for Caregivers of Learning Disabled Youth

10:40 AM  
Alison Hochman  
Graduate, Department of Psychology  
Faculty Mentor: Stefanie Drew  
Abstract Title: The Impact of Visual Discomfort in the College Population
Paula Mota
Graduate, Department of Anthropology
Faculty Mentor: Rachel Giraudo

Abstract Title: Interrogating Globalization: Anthropology and Sport
10-Minute Oral Presentation Session 2
College of Health and Human Development and Social and Behavioral Sciences
8:30 AM - 11:40 AM - USU Panorama City Room

8:30 AM  Erica Aguiar, Jermaine Ang, Nicolle Martin & Mary Garcia-Casas
Graduate, Department of Physical Therapy
Faculty Mentor: Margaret Roller
Abstract Title: The Effects of the RSVP Bone Builders Program on Strength, Balance and Balance Confidence, Gait Speed, Fall Risk, and Life Satisfaction

8:50 AM  Kimberly Arellano
Graduate, Department of Health Sciences
Faculty Mentor: Vicki Ebin
Abstract Title: Measuring Young Adults’ Health Insurance Literacy: A Pilot Study

9:10 AM  Shaine Danbeli
Graduate, Department of Kinesiology
Faculty Mentor: George Kioussis
Abstract Title: Joao Havelange and the “Democratization” of FIFA Refereeing at World Cup Finals

9:30 AM  Monique Griffiths & Jessica Chiang
Undergraduate, Department of Health Sciences
Faculty Mentor: Shu-Sha Angie Guan
Abstract Title: Caregiver Relationships and General Support Related to Depressive Symptoms and BMI

9:50 AM  Gerardo Gutierrez
Undergraduate, Department of Environmental and Occupational Health
Faculty Mentor: Nola Kennedy
Abstract Title: Determining the Genetic Requirement for BPA’s Effect on Germ Cell Epigenetic Regulation

10:10 AM  BREAK

10:20 AM  Christopher Rogers
Graduate, Department of Health Sciences
Faculty Mentor: Stephanie Benjamin
Abstract Title: Prevalence of adverse childhood experiences and associated health and academic outcomes reported in a college sample
10:40 AM  Esther Schultz & Alyssa Bartholomew  
Graduate, Department of Family and Consumer Sciences  
Faculty Mentor: Elizabeth Sussman  
Abstract Title: Does Existing Dietary Supplement Regulation Adequately Protect Consumers?

11:00 AM  Danica Marie Tolentino  
Graduate, Department of Kinesiology  
Faculty Mentor: Taeyou Jung  
Abstract Title: Comparison of immediate gait outcomes following seated stepping, elliptical training, treadmill walking, and overground walking in individuals with Parkinson's disease

11:20 AM  Shir Zion  
Graduate, Department of Psychology  
Faculty Mentor: Ellie Kazemi  
Abstract Title: Experimental Analysis of Variables that Affect Healthier Snack Selection
10-Minute Oral Presentation Session 3
College of Engineering & Computer Science, 8:30 AM - 10:50 AM - USU Tujunga Room

8:30 AM  Akinwande Akinwunmi  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: Design and manufacture of a new span morphing wing

8:50 AM  William Conlin  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Vibhav Durgesh  
Abstract Title: Separation Location Detection on Airfoils from Flow Visualization Images

9:10 AM  Richard Dean Dojillo  
Undergraduate, Department of Computer Science  
Faculty Mentor: Vahab Pournaghshband  
Abstract Title: Detecting Strict Priority Queuing on the Network

9:30 AM  Christian Garcia & Sergio Valenzuela  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: Sweep Morphing Wing

9:50 AM  Ryan Green & Richard Aldana  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: New Macro-Fiber Composite Actuated Seamless Camber Morphing Wing Design

10:10 AM  Steve Martinez, Jessica Shaffstall, John Paul Lionel  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: Integrated Morphing Winglet Design with Shape Memory Alloy Driven Actuation

10:30 AM  Nasser Ramsis, Nomer Piol & Ian Sieker  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: Development of a twist morphing wing design using an SMA based smart soft composite
10-Minute Oral Presentation Session 4  
*College of Science & Math, 8:30 AM - 11:20 AM - Van Nuys Room*

**8:30 AM**  
Allea Cauilan, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Cristian Ruiz Rueda  
*Abstract Title: Intracellular Accumulation of Amino Acids in Escherichia coli Mutants Lacking the AcrAB-ToIC Multidrug Efflux Pump*

**8:50 AM**  
Erika Duell, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Jonathan Kelber  
*Abstract Title: The Effect of Glucose Concentration on Soluble Cripto Levels and Cellular Localization*

**9:10 AM**  
Samantha Hain  
Undergraduate, Department of Biology  
Faculty Mentor: Samantha Butler  
*Abstract Title: Deriving Sensory Spinal Interneurons from Human Pluripotent Stem Cells*

**9:30 AM**  
Julie Hong, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Jonathan Kelber  
*Abstract Title: RAI14 regulates proliferation/survival and migration on fibronectin substrates in mutant KRas pancreatic cancer cells*

**9:50 AM**  
BREAK

**10:00 AM**  
Sala Kim  
Undergraduate, Department of Biology  
Faculty Mentor: Jonathan Kelber  
*Abstract Title: ITGA1 is an early biomarker in pancreatic cancer that potentiates stem-like cell survival and TGFβ/collagen-induced EMT, therapy resistance and metastasis*

**10:20 AM**  
Lindsay Kutscher, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Jonathan Kelber  
*Abstract Title: Blockade of eIF5A hypusination reverses PEAK1-mediated TGFβ/induced EMT and synergizes with HDAC6 inhibition to potently kill metastatic breast cancer cells*
10:40 AM  Osvaldo Miranda
Undergraduate, Department of Biology
Faculty Mentor: Cristian Ruiz Rueda
Abstract Title: Distribution and Characterization of Carbapenem-Resistant Bacteria in Lakes and Ponds in the San Fernando Valley

11:00 AM  Bobby Teng
Undergraduate, Department of Biology
Faculty Mentor: Lisa Banner
Abstract Title: Examining the effects of kale, arugula, and dandelion greens on memory in obese pre-diabetic C57BL/6 mice
10-Minute Oral Presentation Session 5
College of Social and Behavioral Sciences, 8:30 AM - 11:20 AM - USU Burbank Room

8:30 AM  Maira Areguin
Graduate, Department of Psychology
Faculty Mentor: Que-Lam Huynh
Abstract Title: Reaping More than What They Sow: Latina/o Farm Workers’ Experiences with Environmental Microaggressions

8:50 AM  Chelsea Carter
Graduate, Department of Psychology
Faculty Mentor: Ellie Kazemi
Abstract Title: Workplace Conflict for Board Certified Behavior Analysts

9:10 AM  Milagros Contreras & Mayra Villa
Graduate, Department of Social Work
Faculty Mentor: Judith Anne DeBonis
Abstract Title: Barriers to Reporting Domestic Violence: Latina Women's Perspective

9:30 AM  Tangier Davis
Graduate, Department of Psychology
Faculty Mentor: Debbie Ma
Abstract Title: The Consequences of Concealment

9:50 AM  BREAK

10:00 AM  Jennifer Galarze
Graduate, Department of Social Work
Faculty Mentor: Jodi Brown
Abstract Title: A Qualitative Study: Understanding Adulthood after Witnessing Intimate Partner Violence as a Child

10:20 AM  Martha Gonzalez & Anna Corona
Graduate, Department of Social Work
Faculty Mentor: Jodi Brown
Abstract Title: Barriers that Limit Access to Healthcare in Latino Women

10:40 AM  Griselda Vargas & Angelica Medina
Graduate, Department of Social Work
Faculty Mentor: Judith DeBonis
Abstract Title: Latino/a Perspectives on the Black Lives Matter Movement

11:00 AM  Lyndsey Weiss
Graduate, Department of Social Work
Faculty Mentor: Allen Lipscomb
Abstract Title: Sexual Violence Prevention Education Among Young Adults
10-Minute Oral Presentation Session 6
College of Science & Math, 8:30 AM - 11:40 AM-USU Flintridge Room

8:30 AM Gabriela Alvarez Azanedo
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Abstract Title: FoxP3A3 Regulation of PD-L1 Expression in Bladder Cancer Cells

8:50 AM Heather Carstensen
Undergraduate, Department of Biology
Faculty Mentor: Ray Hong
Abstract Title: Characterization of a Dauer Constitutive Mutant in a Nematode

9:10 AM Joanna Hurtado
Undergraduate, Department of Biology
Faculty Mentor: Rheem Medh
Abstract Title: Effects of RCAN1 knockdown on Dex-induced apoptosis of human lymphoblastic leukemia cells

9:30 AM Gabriel Lewin
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Abstract Title: Does mTOR Affects Neural Proliferation and Maturation Through MAP1B

9:50 AM Stephanie Kennedy
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Abstract Title: Investigating the Mitochondrial Disulfide Relay System in Human Pluripotent Stem Cells with MitoBloCK6

10:10 AM BREAK

10:20 AM Lesslie Jocol-Perez
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Abstract Title: Characterization of AF4/FMR2 Family Member 3 and its Association to Mantle Cell Lymphoma

10:40 AM Jacqueline Saenz
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Abstract Title: Cardiovascular Progenitor Cell Expansion for Differentiation into Cardiomyocytes for Regenerative Cardiac Therapy
11:00 AM  Carlos Salas Chung  
Undergraduate, Department of Biology  
Faculty Mentor: Cindy Malone  
**Abstract Title:** In vitro Maturation of Human Stem Cell derived Interneurons

11:20 AM  Carlos Vargas, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Robert Espinoza  
**Abstract Title:** Going Green Takes Guts: Plant-Eating Specializations in Gut Form and Function in the World's Largest Skink
10-Minute Oral Presentation Session 7
College of Science & Math and Social & Behavioral Sciences, 8:30 AM - 11:40 AM
USU Lake View Terrace Room

8:30 AM  Nickie Cammisa  
Graduate, Department of Biology  
Faculty Mentor: Casey terHorst  
Abstract Title: Genotypic variation in an invasive plant’s response to mutualists and drought

8:50 AM  Meaghan Clark  
Graduate, Department of Biology  
Faculty Mentor: Jeanne Robertson  
Abstract Title: Does hybridization promote speciation? The fate of hybrids in a contact zone of red-eyed treefrogs

9:10 AM  Anthony Cobos  
Graduate, Department of Biology  
Faculty Mentor: Robert Espinoza  
Abstract Title: Testing Gollum Rule: Convergent Evolution in Morphology and Physiology among Malaysian Cave-Dwelling Geckos

9:30 AM  Matthew Dickson  
Graduate, Department of Biology  
Faculty Mentor: Robert Espinoza  
Abstract Title: Rapidly Adapting to the Neighborhood: Physiological Responses of Mediterranean House Geckos to their Introduced Climates

9:50 AM  Nicholas Hager  
Graduate, Department of Geography  
Faculty Mentor: Amalie Orme  
Abstract Title: Landscape Response to Fire: Erosion rates using ground survey and UAV imagery

10:10 AM  BREAK

10:20 AM  Carson Keller  
Graduate, Department of Biology  
Faculty Mentor: Tim Karels  
Abstract Title: Sublethal Effects of Predators on Prey Foraging Behavior and Stress Physiology
10:40 AM  Melissa Kurman  
Graduate, Department of Biology  
Faculty Mentor: Casey terHorst  
Abstract Title: Variable responses of Giant Kelp (Macrocystis pyrifera) individuals and populations to warming

11:00 AM  Dillon Monroe  
Graduate, Department of Biology  
Faculty Mentor: Robert Espinoza  
Abstract Title: Challenges to Defining the Niche of an Invasive Human-Commensal Gecko

11:20 AM  Zoe Scott  
Graduate, Department of Biology  
Faculty Mentor: Casey terHorst  
Abstract Title: Effects of the invasive foundation species, Watersipora subtorquata, on fouling community structure are environmentally dependent
10-Minute Oral Presentation Session 8
College of Science & Math, 8:30 AM - 11:20 AM - USU Pasadena Room

8:30 AM  Tabitha Bayangos
Graduate, Department of Biology
Faculty Mentor: Kerry Cooper
Abstract Title: Quantification of antibiotic resistant bacteria from meats and poultry

8:50 AM  Alex Burkert
Graduate, Department of Biology
Faculty Mentor: Rachel Mackelprang
Abstract Title: Identifying Changes in the Active, Dead, and Dormant Microbial Community Structures across a Chronosequence of Ancient Alaskan Permafrost

9:10 AM  Angelica Cruz
Graduate, Department of Biology
Faculty Mentor: Randy Cohen
Abstract Title: Effect of stem cells on an animal model of type 1 diabetes

9:30 AM  Sarkis Hamalian
Graduate, Department of Biology
Faculty Mentor: Jonathan Kelber
Abstract Title: The Role of PEAK1 on the Pro-tumorigenic Functions of Human Cancer-associated Fibroblasts on Breast Cancer Cells

9:50 AM  BREAK

10:00 AM  Erik Hearn
Graduate, Department of Biology
Faculty Mentor: Gilberto Flores
Abstract Title: Mucin degradation by human symbiont Akkermansia muciniphila

10:20 AM  Preston Shisgal
Graduate, Department of Biology
Faculty Mentor: Preston Kelber
Abstract Title: PEAK1 Signaling and Function in Mesenchymal Stem Cells and its Effect on Breast Cancer

10:40 AM  Wesley Tierney
Graduate, Department of Biology
Faculty Mentor: Randy Cohen
Abstract Title: The Long-Term Effects of Human Neural Progenitor Cells on a Rat Model of Ataxia
11:00 AM  Lena Vincent
Graduate, Department of Biology
Faculty Mentor: David Bermudes

Abstract Title: Heterologous Expression of Multigene Toxins in a Tumor-Targeted Salmonella
10-Minute Oral Presentation Session 9
College of Science & Math, 8:30 AM - 11:30 AM - USU Ventura Room

8:30 AM  Esteban Bautista, BUILD PODER
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Jared Ashcroft
Abstract Title: It's Raining: Remotely Accessible Instruments in Nanotechnology to Promote Student Success

8:50 AM  Vincent Carpenter
Graduate, Department of Physics and Astronomy
Faculty Mentor: Wladimir Lyra
Abstract Title: Investigating the Tidal Downsizing model of planet formation

9:10 AM  Kellee Eberle
Graduate, Department of Chemistry and Biochemistry
Faculty Mentor: Jessica Vey
Abstract Title: Initial Studies of Amino Acid Residue Mutations in the Active Site of Dibenzothiophene monooxygenase (DsZ)

9:30 AM  Roberto Espinoza
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Takashi Ito
Abstract Title: Diffusion of Uncharged Rhodamine B Molecules in Self-Assembled Organic Nanotubes Studies by Imaging Fluorescence Correlation Spectroscopy

9:50 AM  BREAK

10:00 AM  Ismail Hossain
Graduate, Department of Chemistry and Biochemistry
Faculty Mentor: Taeboem Oh
Abstract Title: Imidazolium Based Room Temperature Ionic Liquids in Organic Synthesis

10:20 AM  Thomas Look & Mac Lee
Graduate, Department of Physics and Astronomy
Faculty Mentor: Donna Sheng
Abstract Title: Many-Body Localization in Spin Chain System with Quasi-Periodic Potential

10:40 AM  Gilberto Mendez & Bilal Madha, BUILD PODER
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Jessica Vey
Abstract Title: The Biochemical Characterization of the Flavin Reductase Involved in the Bacterial Desulfurization of Dibenzothiophene (DBT)
11:00 AM  Alain Olavarrieta Stefanoni  
Graduate, Department of Mathematics  
Faculty Mentor: Daniel Katz  
Abstract Title: Designing Sequences with Low Correlation
10-Minute Oral Presentation Session 10
College of Health and Human Development, 11:00 AM - 1:50 PM-USU Lake Balboa Room

11:00 AM  Dalal Almutib
Graduate, Department of Kinesiology
Faculty Mentor: Teri Todd
Abstract Title: Differences of Motor Skills between College Students with and without Autism Spectrum Disorder using a motion analysis system

11:20 AM  Hallie Bui
Graduate, Department of Kinesiology
Faculty Mentor: Taeyou Jung
Abstract Title: Physical and Psychological Outcomes Following Aquatic Exercise in Individuals with Total Knee Arthroplasty: A Case Study

11:40 AM  Steffanie Colgate
Graduate, Department of Kinesiology
Faculty Mentor: Teri Todd
Abstract Title: Effects of a peer-mentoring exercise program on physical activity and fitness for college students with Autism Spectrum Disorder

12:00 PM  Takuto Fujii
Graduate, Department of Kinesiology
Faculty Mentor: Taeyou Jung
Abstract Title: Analysis of Brain Activity During Dual Task Walking in Individuals with Parkinson's Disease

12:20 PM  BREAK

12:30 PM  Kyle Geary
Graduate, Department of Kinesiology
Faculty Mentor: Teri Todd
Abstract Title: Difference in postural sway between college students with and without ASD

12:50 PM  Hyosok Lim
Graduate, Department of Kinesiology
Faculty Mentor: Taeyou Jung
Abstract Title: Influence of water depth on energy expenditure during aquatic walking in people post-stroke
1:10 PM  Cindy Rhode  
Graduate, Department of Kinesiology  
Faculty Mentor: Taeyou Jung  
**Abstract Title:** Research Proposal of The Comparison of Brain Activity Patterns During Active-Assistive, Voluntary, and Passive-Assistive Exercise in People with Parkinson’s Disease

1:30 PM  Mayumi Wagatsuma  
Graduate, Department of Kinesiology  
Faculty Mentor: Taeyou Jung  
**Abstract Title:** Relationship between muscular strength and functional balance in people post-stroke
10-Minute Oral Presentation Session 11
College of Social and Behavioral Sciences, 12:30 PM - 2:30 PM-USU La Crescenta Room

12:30 PM  Elizabeth Calzada
Undergraduate, Department of History
Faculty Mentor: Heidi Schumacher
Abstract Title: Comparison of Odysseus and Themistocles

12:50 PM  Brian Mercado
Undergraduate, Department of Sociology
Faculty Mentor: Heidi Schumacher
Abstract Title: Can Multicultural Feminist Societies Exist?

1:10 PM  Chiemelie Onyekonwu, BUILD PODER
Undergraduate, Department of Psychology
Faculty Mentor: Virginia Huynh
Abstract Title: Examining the Relationship Between Ethnic-Racial Socialization and Stress Among Latino/a Students

1:30 PM  Taylor Rodiger
Undergraduate, Department of History
Faculty Mentor: Nan Yamane
Abstract Title: Deportation Fears and Realities

1:50 PM  Taylor Shigaki
Undergraduate, Department of Psychology
Faculty Mentor: Erica Wohldmann
Abstract Title: Tricking the Mind: Exploring the Benefits of a Virtual Reality World

2:10 PM  Eryn Talevich
Undergraduate, Department of Anthropology
Faculty Mentor: Heidi Schumacher
Abstract Title: Telling Fortunes
10-Minute Oral Presentation Session 12
College of Education, 12:30 PM - 2:30 PM-USU Panorama City Room

12:30 PM  Felicia Conlan
Graduate, Department of Educational Leadership and Policies Studies
Faculty Mentor: Dimpal Jain
Abstract Title: Concussion to Classroom: Post-Concussion Academic Reintegration of Collegiate Club Sports Athletes

12:50 PM  Jessica Erker
Graduate, Department of Educational Psychology and Counseling
Faculty Mentor: Diane Gehart
Abstract Title: Qualitative study of contemporary Satir family therapy: Theoretical and practical developments over the past 30 years

1:10 PM  Leora Gabay
Graduate, Department of Educational Leadership and Policies Studies
Faculty Mentor: Sue Sears
Abstract Title: EASE: Exercise for Academic Success and Excellence

1:30 PM  Hala Maida
Graduate, Department of Educational Psychology and Counseling
Faculty Mentor: Diane Gehart
Abstract Title: The Friend-O-Gram: How to Assess and Map Out the Social Networks of Adolescent and Adult Clients

1:50 PM  Carla Martinez
Undergraduate, Department of Deaf Studies
Faculty Mentor: Heidi Schumacher
Abstract Title: CSUN Undocumented Students and How Stressors Affect their Educational Attainment

2:10 PM  Jasmine Ruffin
Undergraduate, Department of Deaf Studies
Faculty Mentor: William Garrow
Abstract Title: Where Are the Interpreters of Color? Understanding Racial Diversity within Interpreting Training Programs
10-Minute Oral Presentation Session 13

College of Engineering and Computer Science, 12:30 PM - 2:30 PM-USU Tujunga Room

12:30 PM  Jeremy Friedman  
Graduate, Department of Mechanical Engineering  
Faculty Mentor: Nhut Ho  
Abstract Title: Effects of Automation Predictability and Understandability on Trust in Human-Machine Teaming

12:50 PM  Gelareh Jahangiri  
Graduate, Department of Manufacturing Systems Engineering and Management  
Faculty Mentor: Maryam Tabibzadeh  
Abstract Title: A Proactive Risk Assessment Framework to Enhance Patient Safety in Operating Rooms

1:10 PM  Omar Qureshi  
Graduate, Department of Mechanical Engineering  
Faculty Mentor: Vibhav Durgesh  
Abstract Title: Design of an Automated Aerodynamic Load Measurement System

1:30 PM  Ardalan Raisi Sofi  
Graduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: Explicit Tangent Stiffness Matrix for the Geometrically Nonlinear Analysis of Laminated Composite Space Frame Structures

1:50 PM  Muzaffaruddin Syed  
Graduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
Abstract Title: Design of Periodic Structures

2:10 PM  Paulo Yu  
Graduate, Department of Mechanical Engineering  
Faculty Mentor: Vibhav Durgesh  
Abstract Title: Experimental Study of Fluid Flow in Aneurysm
10-Minute Oral Presentation Session 14
College of Art Media & Communication and Social & Behavioral Science, 12:30 PM - 1:50 PM
USU Van Nuys

12:30 PM  John Grilli
Graduate, Department of History
Faculty Mentor: Clementine Oliver
Abstract Title: War of Words: Patriotism, Propaganda, and Profits in Hollywood During World War II

12:50 PM  David Kano & Ray Roman
Graduate, Department of Journalism
Faculty Mentor: Melissa Wall
Abstract Title: Virtual Reality: Sports Perspectives

1:10 PM   Zara Kuredjian
Graduate, Department of Art
Faculty Mentor: Samantha Fields
Abstract Title: Trauma, Narrative, and Identity

1:30 PM   Spencer Myers & Ryanne Smith
Undergraduate, Department of Cinema and Television Arts
Faculty Mentor: Dianah Wynter
Abstract Title: The Feminist Nature of Mad Max: Fury Road
10-Minute Oral Presentation Session 15
College of Humanities, 12:30 PM - 2:50 PM-Flintridge Room

12:30 PM Gabriela Almendarez
Graduate, Department of English
Faculty Mentor: Colleen Tripp
Abstract Title: (Re)mapping Womanhood: Feminicide, Space, and the Search for Identity in Desert Blood

12:50 PM Karen Casady
Graduate, Department of English
Faculty Mentor: Michael Bryson
Abstract Title: Literary Theory and Healing the World

1:10 PM Javier Gomez
Graduate, Department of Chicano/a Studies
Faculty Mentor: Renee Moreno
Abstract Title: ADHD Journey

1:30 PM Elizabeth Hernandez
Undergraduate, Department of Linguistics
Faculty Mentor: Stephanie Kim
Abstract Title: The Politics of Language & Gender

1:50 PM Armen Manuk-Khaloyan
Graduate, Department of History
Faculty Mentor: Donal O'Sullivan
Abstract Title: Hopes, Fears, and Expectations: The Ottoman Empire and the Outbreak of the First World War

2:10 PM Caitlin Postal
Graduate, Department of English
Faculty Mentor: Scott Kleinman
Abstract Title: He Just Can't Wait to Be King. . . Or Can He?
The Impact of Language on King Horn’s Journey from Child to King
10-Minute Oral Presentation Session 16
College of Science & Math, 12:30 PM - 2:30 PM-USU Lake View Terrace Room

12:30 PM  Russell Dauksis
Graduate, Department of Biology
Faculty Mentor: Mark Steele
Abstract Title: Top-Down Versus Bottom-up Processes in a Protected Eelgrass Bed (Zostera Marina)

12:50 PM  Alexis Estrada
Graduate, Department of Biology
Faculty Mentor: Mark Steele
Abstract Title: Key habitats for green abalone (Haliotis fulgens)

1:10 PM  Joshua Manning
Graduate, Department of Biology
Faculty Mentor: Robert Carpenter
Abstract Title: Differential effects of wounding and ocean acidification on tropical crustose coralline algae

1:30 PM  Sarah Merolla
Graduate, Department of Biology
Faculty Mentor: Robert Carpenter
Abstract Title: Effects of water flow and ocean acidification on calcification for different morphologies of coralline algae

1:50 PM  Cameron Pujdak
Graduate, Department of Biology
Faculty Mentor: Steve Dudgeon
Abstract Title: Separation anxiety: Using robust criteria for determining cryptic species

2:10 PM  Bridget Shayka
Graduate, Department of Biology
Faculty Mentor: Robert Carpenter
Abstract Title: Short-term effects of a nutrient pulse on crustose coralline algae under ocean acidification
10-Minute Oral Presentation Session 17  
College of Science & Math, 12:30 PM - 2:30 PM - USU Pasadena Room

12:30 PM  Alina Adamian  
Graduate, Department of Biology  
Faculty Mentor: Cindy Malone  
**Abstract Title:** Small Lymphocytic Lymphoma Associated miR-155 Promoter Isolation, Characterization and Analysis

12:50 PM  Eric Allen  
Graduate, Department of Biology  
Faculty Mentor: Cindy Malone  
**Abstract Title:** The STAT family of transcription factors are essential for activity of the evolutionarily conserved PNPT1 gene.

1:10 PM  Desiree Goetting  
Graduate, Department of Biology  
Faculty Mentor: Cheryl Van Buskirk  
**Abstract Title:** Multiple signaling pathways mediate plasticity in sleep drive

1:30 PM  Fernando Hernandez  
Graduate, Department of Biology  
Faculty Mentor: Cindy Malone  
**Abstract Title:** Molecular Signatures of Epithelial-to-Mesenchymal Transitions in Hepatocellular Carcinoma and Circulating Tumor Cell Counts

1:50 PM  Charlie Seibert  
Graduate, Department of Biology  
Faculty Mentor: Cindy Malone  
**Abstract Title:** Activation of PSA to Enhance Degradation of Aggregate Prone Proteins

2:10 PM  Lawrence Shaktah  
Graduate, Department of Biology  
Faculty Mentor: Cindy Malone  
**Abstract Title:** Regulation and promoter region analysis of the PDCD6IP gene
Poster 1  Edward Agazaryan  
Undergraduate, Department of Kinesiology  
Faculty Mentor: Rosa Angulo-Barroso  
**Abstract Title:** EMG Activity in a Child with Autism Spectrum Disorder during a landing task: A case study

Poster 2  Maral Aghvinian  
Graduate, Department of Psychology  
Faculty Mentor: Mark Sergi  
**Abstract Title:** Social functioning, empathy, and working memory in schizotypy

Poster 3  Dafne Aguilar  
Graduate, Department of Social Work  
Faculty Mentor: Allen Lipscomb  
**Abstract Title:** Keep Ya Head Up: Qualitative examination of resiliency among formerly system involved Latinx young adults.

Poster 4  Cristina Alarcon, BUILD PODER  
Faculty Mentor: Mintesnot Woldeamanuel  
Undergraduate, Department of Sociology  
**Abstract Title:** The Decline in Walking and Cycling to School: Assessing the Built Environment, Social Factors and Health Implications

Poster 5  Angelica Alberto, BUILD PODER  
Faculty Mentor: Taeyou Jung  
Undergraduate, Department of Kinesiology  
**Abstract Title:** Cardiorespiratory responses to aquatic walking at various depths in people post-stroke

Poster 6  Arsalan Amir Ali  
Faculty Mentor: Michael Summers  
Graduate, Department of Biology  
**Abstract Title:** Role of SigB2/SapB2, a sigma factor/anti-sigma factor regulatory pair in *Nostoc punctiforme*

Poster 7  Solishia Andico  
Faculty Mentor: Joshua Schwartz  
Graduate, Department of Geological Science  
**Abstract Title:** Continental crust formation from arc flare-ups: A look at lower and middle crust plutons in Fiordland, New Zealand
Poster 8   Diana Banuelos, BUILD PODER
Faculty Mentor: Sun-Mee Kang
Undergraduate, Department of Psychology
**Abstract Title:** Differences in the Latency of P300 between Deaf Signers and Hearing Non-Signers

Poster 9   Shawntel Barreiro
Faculty Mentor: Heidi Schumacher
Undergraduate, Department of Linguistics
**Abstract Title:** Linguistic perspectives on the current Mohegan language revival

Poster 10  Joshua Bauman
Faculty Mentor: Nola Kennedy
Undergraduate, Department of Environmental and Occupational Health
**Abstract Title:** OH, Radical Production in Bronchial Alveolar Lavage Fluid

Poster 11  Juliana Bemudez & Ryan Meza, BUILD PODER
Faculty Mentor: Bingbing Li
Undergraduate, Department of Manufacturing Systems Engineering and Management
**Abstract Title:** 3D Bio printing of blood Vessels for Cell Viability

Poster 12  Domenick Booker
Faculty Mentor: Nola Kennedy
Graduate, Department of Environmental and Occupational Health
**Abstract Title:** Effect of Music on Hearing in Dance Instructors and Students

Poster 13  Jennifer Cabrera
Faculty Mentor: Shu-Sha Angie
Undergraduate, Department of Child and Adolescent Development
**Abstract Title:** Social Media and Self-Esteem

Poster 14  Francesca Campisi
Graduate, Department of Family and Consumer Sciences
Faculty Mentor: Dena Herman
**Abstract Title:** Commit to be Fit - Nutrition Education Curriculum

Poster 15  Angela Cannata & Estelli Melgar
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Eric Kelson
**Abstract Title:** Toxicity of terpyridine based anti-tumor agents against HepG2 cultures

Poster 16  Natasha Carlson, BUILD PODER
Undergraduate, Department of Biology
Faculty Mentor: Cristian Ruiz-Rueda
**Abstract Title:** Looking for Carbapenem Resistant Bacteria in the Tujunga Ponds
Poster 17  Amelia Carrera & Jaqueline Dighero, BUILD PODER
Undergraduate, Department of Psychology
Faculty Mentor: Meeta Banerjee
Abstract Title: How Latino adolescent’s mental health and parent’s academic socialization serve as predictors to academic self-concept.

Poster 18  Jocelyn Castellanos
Undergraduate, Department of Environmental and Occupational Health
Faculty Mentor: Nola Kennedy
Abstract Title: Characterization of a Probiotic Lactobacillus Strain Associated with Reduced Inflammatory Toxicity

Poster 19  Bianca Chavez & Alejandra Fausto
Department of Chemistry and Biochemistry
Faculty Mentor: Thomas Minehan
Abstract Title: Study of Small Molecule Binding to DNA

Poster 20  Andrea Cummings
Graduate, Department of Family and Consumer Sciences
Faculty Mentor: Dena Herman
Abstract Title: Acceptability of a Wearable Dietary Tracking Device

Poster 21  Lisa Dalati & Jose Estrada
Graduate, Department of Psychology
Faculty Mentor: Scott Plunkett
Abstract Title: Family Cohesion as a Potential Moderator of Contextual Risk Factors on Latino Adolescents Delinquency in Los Angeles

Poster 22  Cesar De Jeronimo
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Eric Kelson
Abstract Title: DNA binding by terpyridine based anti-tumor candidates and their complexes

Poster 23  Desiree Di Lorenzo, Geovanny Aguirre Burgos & Abdy Lang
Undergraduate, Department of Kinesiology
Faculty Mentor: Sean Flanagan
Abstract Title: Relative Contributions of Ankle, Knee and Hip Joint During Landing

Poster 24  Jaqueline Dighero, BUILD PODER
Undergraduate, Department of Psychology
Faculty Mentor: Meeta Banerjee
Abstract Title: Sexual Perceptions
Poster 25  Cameron Farsar & Lysandra Sayer  
Graduate, Department of Biology  
Faculty Mentor: Cristian Ruiz Rueda  
**Abstract Title:** Isolation of Carbapenem-Resistant Bacteria from Urban Soil Samples in Northridge, CA

Poster 26  Jennifer Flores, BUILD PODER  
Undergraduate, Department of Health Sciences  
Faculty Mentor: Stephan Chung  
**Abstract Title:** Implementing Spanish-Language Hospice Video with Palliative Care Patients

Poster 27  Alexa Fuentes, BUILD PODER  
Undergraduate, Department of Psychology  
Faculty Mentor: Erica Wohldmann  
**Abstract Title:** Looking vs Doing: Generating information

Poster 28  Kadir Galindo, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Kerry Cooper  
**Abstract Title:** The genomics of Shiga Toxin-producing Escherichia coli (STEC) O91:H21

Poster 29  Marissa Garcia & Karen Alvarez, BUILD PODER  
Undergraduate, Department of Psychology  
Faculty Mentor: Alyssa Arentoft  
**Abstract Title:** Quality of healthcare is associated with antiretroviral neuropenetrant and neuropsychology outcomes in HIV + adults

Poster 30  Natalie Gardetto  
Undergraduate, Department of Anthropology  
Faculty Mentor: Sabina Magliocco  
**Abstract Title:** Looking for the Magic

Poster 31  Daisy Gonzalez, BUILD PODER  
Undergraduate, Department of Communication Disorders and Sciences  
Faculty Mentor: Ana Sanchez-Munoz  
**Abstract Title:** Language as a stress coping mechanism: The case of dialect contact in Los Angeles

Poster 32  Elizabeth Gordian  
Undergraduate, Department of Environmental and Occupational Health  
Faculty Mentor: Nola Kennedy  
**Abstract Title:** Sediment Augmentation on Southern California Coastal Wetland
Poster 33  
**Eyesys Gregory & Samira Moughrabi, BUILD PODER**  
Undergraduate, Department of Sociology  
Faculty Mentor: Samira Moughrabi  
*Abstract Title:* Medical treatment adherence in minorities

Poster 34  
**Coralia Guandique, BUILD PODER**  
Undergraduate, Department of Anthropology  
Faculty Mentor: Zeynep Toker  
*Abstract Title:* Physical activity in Latinas' daily routines: the role of culture, gender identity, and neighborhood characteristics

Poster 35  
**Ohannes Guerbidjian, BUILD PODER**  
Undergraduate, Department of Biology  
Faculty Mentor: Kerry Cooper  
*Abstract Title:* Whole genome sequencing analysis reveals diversity among identically subtyped Salmonella Typhimurium strains from different spatial and temporal sources

Poster 36  
**Jessica Herrera & Marina Nahkla**  
Undergraduate, Department of Psychology  
Faculty Mentor: Jill Razani  
*Abstract Title:* Executive Functioning in Alzheimer's disease and Mild Cognitive Impairment Compared to Normal Control

Poster 37  
**Aleena Hussain**  
Undergraduate, Department of Biology  
Faculty Mentor: Nola Kennedy  
*Abstract Title:* Bisphenols impact on reproductive aging.

Poster 38  
**Kyung (Esther) Hwang**  
Graduate, Department of Psychology  
Faculty Mentor: Holli Tonyan  
*Abstract Title:* Financial well-being and the perception of job control among family child care providers

Poster 39  
**William Jackson**  
Undergraduate, Department of Biology  
Faculty Mentor: Cristian Ruiz Rueda  
*Abstract Title:* The Role of the SOS Response in the Formation of Persisters

Poster 40  
**Erin Jaco**  
Graduate, Department of Biology  
Faculty Mentor: Mark Steele  
*Abstract Title:* Species-specific responses to protection in Marine Protected Areas measured with stereo-video
Poster 41  Gabriela Jimenez, BUILD PODER
Undergraduate, Department of Psychology
Faculty Mentor: Shu-Sha Angie Guan
Abstract Title: The Role of Personality in Social Support and Mental Well-Being Among Young Adults From Diverse Backgrounds

Poster 42  Marzieh Karimi
Graduate, Department of Art
Faculty Mentor: Lesley Krane
Abstract Title: Here Is Not Here

Poster 43  Rachel Larson
Graduate, Department of Biology
Faculty Mentor: Tim Karels
Abstract Title: Urbanization and its Effects on Resource Use of Coyotes (Canis latrans) in Southern California

Poster 44  John Lawrence
Graduate, Department of Anthropology
Faculty Mentor: Cathy Costin
Abstract Title: Petrographic Analysis of Household Wares at La Blanca, Guatemala

Poster 45  Nicolas Lopez
Undergraduate, Department of Biology
Faculty Mentor: Kerry Cooper
Abstract Title: Prevalence of foodborne pathogens on fresh produce in the San Fernando Valley, California

Poster 46  Gonzalo Lopez, Kirsten George& Meital Aulker
Undergraduate, Department of Kinesiology
Faculty Mentor: Sean Flanagan
Abstract Title: More injuries occur during a landing phase of a jump rather than a take-off phase of a jump.

Poster 47  Sam Mahdi
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Karin Crowhurst
Abstract Title: The investigation of allostery and dimerization in hRGS7 using NMR techniques

Poster 48  Christine Manke
Graduate, Department of Linguistics
Faculty Mentor: Terrie Mathis
Abstract Title: Paralinguistics in SMS Text Messaging: A Corpus Study
Poster 49  Yanelliz Melchor Martinez, BUILD PODER
Undergraduate, Department of Psychology
Faculty Mentor: Abraham M. Rutnick
Abstract Title: Psychological Distance, Construal Level & Decisions About Assisted Suicide

Poster 50  Yaquelin Morales
Undergraduate, Department of Sociology & Urban Planning
Faculty Mentor: Kenya Covington
Abstract Title: Economic coping and overall health

Poster 51  Joshua Neilson
Graduate, Department of Physics and Astronomy
Faculty Mentor: Li Gao
Abstract Title: Synthesis of Nitrogen-Doped Graphene on Copper from Azafullerene

Poster 52  Arnelle Nketiah, BUILD PODER
Undergraduate, Department of Biology
Faculty Mentor: Maria de Bellard
Abstract Title: Role of Slit/Robo signaling in Contact Inhibition Locomotion of neural crest cells.

Poster 53  Nicole Ocfemia
Undergraduate, Department of Biology
Faculty Mentor: Gilberto Flores
Abstract Title: Feeding off the Dead: How Necromenic Nematodes Acquire their Bacterial Symbionts

Poster 54  Carina Ortega, BUILD PODER
Undergraduate, Department of Biology
Faculty Mentor: Rheem Medh
Abstract Title: BV6, an IAP antagonist, potentiates glucocorticoids-evoked apoptosis of CEM human leukemia cells.

Poster 55  Jordy Penagos, BUILD PODER
Undergraduate, Department of Psychology
Faculty Mentor: Holli Tonyan
Abstract Title: All in the Family? Do Husbands support their wives in home child care over time?

Poster 56  Lansing Perng
Graduate, Department of Biology
Faculty Mentor: Robert Carpenter
Abstract Title: Effect of canopy forming macroalga, Sargassum pacificum, on crustose coralline, Lithophyllum kotschyanum, under conditions of ocean acidification
Poster 57  Karen Ramos & Linda Youkhana  
Undergraduate, Department of Biology  
Faculty Mentor: Cristian Ruiz Rueda  
Abstract Title: Deletion of the AcrAB-TolC Multidrug Efflux Pump Leads to Accumulation of Tricarboxylic Acid Cycle Intermediaries in Escherichia coli

Poster 58  Michele Ramos Correa, BUILD PODER  
Undergraduate, Department of Chemistry and Biochemistry  
Faculty Mentor: Jheem Medh  
Abstract Title: Comparing Expression of Genes Involved in Carbohydrate Metabolism in Wild-Type and LPL-Knock-Down Muscle Cells

Poster 59  Katie Rawson  
Graduate, Department of Family and Consumer Sciences  
Faculty Mentor: Elizabeth Sussman  
Abstract Title: Vitamin K is Vital for Newborn Health

Poster 60  Harvey Reyna, Dillion Lopez, Gabriela Ramirez & Miriam Sayes  
Undergraduate, Department of Biology  
Faculty Mentor: Virginia Vandergon  
Abstract Title: Pathway evolution: Linking the evolutionary histories of structural and regulatory genes involved in flower color

Poster 61  Brian Rios & Kyle Geary, BUILD PODER  
Undergraduate, Department of Kinesiology  
Faculty Mentor: Teri Todd  
Abstract Title: IFiT: Improving Physical Activity and Fitness among Adolescents with ASD

Poster 62  Cache Robinson, BUILD PODER  
Undergraduate, Department of Chemistry and Biochemistry  
Faculty Mentor: Jheem Medh  
Abstract Title: A role for lipoprotein lipase in regulation of Insulin signaling.

Poster 63  Alexa Rocha  
Undergraduate, Department of Biology  
Faculty Mentor: Sean Murray  
Abstract Title: Three transcription factors regulate the accumulation of a dynamically-localizing polyester in Caulobacter crescentus

Poster 64  Amanda Rowen  
Graduate, Department of Physics and Astronomy  
Faculty Mentor: Wladimir Lyra  
Abstract Title: Ice Mantle Convection on Europa
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<tr>
<th>Poster 65</th>
<th>Briana Samayoa &amp; Maria Nicole Ocfemia</th>
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<td>Undergraduate, Department of Biology</td>
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<td>Faculty Mentor: Ray Hong</td>
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<tr>
<td><strong>Abstract Title:</strong></td>
<td>Do adult and larvae beetles differ in their microbiome?</td>
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<th>Poster 66</th>
<th>Bryan Sanchez, BUILD PODER</th>
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<td>Undergraduate, Department of Biology</td>
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<td>Faculty Mentor: Kerry Cooper</td>
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<tr>
<td><strong>Abstract Title:</strong></td>
<td>Quantification of antibiotic resistant bacteria from ready-to-eat foods</td>
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<tr>
<th>Poster 67</th>
<th>Elizabeth Sanchez-Leon, Jessie Bridgewater, Sarai Aguirre, Angeles Small, Judith Rodriguez, Miguel Rodriguez &amp; JoAnn Torres, BUILD PODER</th>
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<td>Faculty Mentor: Rheem D. Medh</td>
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<tr>
<td><strong>Abstract Title:</strong></td>
<td>Bridging Academic-Community Partnerships to Reduce Mental Health Disparities in the Latino/a Population: Logrando Bienestar</td>
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<th>Poster 68</th>
<th>Evelyn Sanchez Hernandez</th>
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<td>Faculty Mentor: Rheem D. Medh</td>
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<tr>
<td><strong>Abstract Title:</strong></td>
<td>Regulation of key pro- and anti-apoptotic genes involved in glucocorticoid-evoked apoptosis of human leukemic CEM cells</td>
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<th>Poster 69</th>
<th>Briana Scott, BUILD PODER</th>
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<td>Undergraduate, Department of Health Sciences</td>
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<td>Faculty Mentor: Boris Ricks</td>
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<td><strong>Abstract Title:</strong></td>
<td>Does response matter?</td>
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<th>Poster 70</th>
<th>Paulo Sitagata &amp; Mayumi Wagatsuma, BUILD PODER</th>
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<td><strong>Abstract Title:</strong></td>
<td>Muscular strength affects on functional balance of people post-stroke</td>
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<th>Poster 71</th>
<th>Christian Sotelo &amp; Beneil Eisavi, BUILD PODER</th>
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<td></td>
<td>Undergraduate, Department of Manufacturing Systems Engineering and Management</td>
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<td>Faculty Mentor: Bingbing Li</td>
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<tr>
<td><strong>Abstract Title:</strong></td>
<td>Customized Orthodontic Brackets Created by Selective Laser Melting Process for Orthodontic Treatment</td>
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<tr>
<th>Poster 72</th>
<th>Brian Tulloh</th>
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<td>Undergraduate, Department of Biology</td>
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<td>Faculty Mentor: Cindy Malone</td>
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<td><strong>Abstract Title:</strong></td>
<td>Optimizing the Corrective Donor Construct for CRISPR/Cas9 Mediated Site-Specific Gene Modification of CD40 Ligand</td>
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Poster 73  Victoria Villagoemez, BUILD PODER
Undergraduate, Department of Health Sciences
Faculty Mentor: Vicki Ebin
Abstract Title: First Year of Nutritional Independence
Afternoon Poster Session
USU Northridge Center 1:00 PM- 2:30 PM

Poster 1  Eric Anderson  
Graduate, Department of Health Sciences  
Faculty Mentor: Suzanne Spear  
**Abstract Title:** “Beat the Quake”: Earthquake Readiness

Poster 2  Calvin Apodaca, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Mariano Loza Coll  
**Abstract Title:** Development of a Bioinformatic Analysis Program to Visualize Genomic Interactions From Public Datasets

Poster 3  Ivymarie Aranas, BUILD PODER  
Undergraduate, Department of Biology  
Faculty Mentor: Rheem Medh  
**Abstract Title:** Effects of Paclitaxel on Glucocorticoid-induced apoptosis of Human Leukemic CEM Cells

Poster 4  Madeline Awad, Rebecca B. Esquenazi & Daniel Larranaga  
Undergraduate, Department of Psychology  
Faculty Mentor: Stefanie Drew  
**Abstract Title:** Keeping an Eye on It: Observing Accuracy of Self-Reported Re-Reading Rates

Poster 5  Camille Buenviaje & Laura Martinez  
Graduate, Department of Social Work  
Faculty Mentor: Alejandra Acuna  
**Abstract Title:** When Social Workers Get Tired: How Compassion Fatigue Manifests Among Social Workers Working with Adults Versus Social Workers Working with Minors

Poster 6  Luisa Buritica  
Graduate, Department of Geological Science  
Faculty Mentor: Joshua Schwartz  
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Faculty Mentor: Omar Ruvalcaba  
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Poster 8  Chelsea Callicoatte & Angela Rasiah
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Faculty Mentor: Randy Cohen
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Graduate, Department of Biology
Faculty Mentor: David Bermudes
Abstract Title: Characterization of Bacteria-Secreted Chimeric Protease Inhibitors

Poster 10  Areli Castrejon
Undergraduate, Department of Physics and Astronomy
Faculty Mentor: Wladimir Lyra
Abstract Title: The photoelectric instability in debris disks: planets or just gas?

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Graduate, Department of Psychology
Faculty Mentor: Jonathan Martinez
Abstract Title: Perceived parental monitoring, substance use, and neighborhood risks in relation to delinquent behavior in Latino adolescents

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Undergraduate, Department of Child and Adolescent Development
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<tr>
<td>Faculty Mentor: Stefanie Drew</td>
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<tr>
<td><strong>Abstract Title:</strong> Visual Discomfort Symptoms among Hispanic/Latino(a) college students</td>
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<tr>
<td>Faculty Mentor: Mariano Loza-Coll</td>
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<tr>
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<tr>
<td>Faculty Mentor: Cristian Ruiz-Rueda</td>
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<tr>
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<td>Faculty Mentor: Stefanie Drew</td>
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<tr>
<td>Faculty Mentor: Cristian Ruiz Rueda</td>
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<tr>
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Undergraduate, Department of Child and Adolescent Development & Communication Disorders and Sciences  
Faculty Mentor: Kandice Grote  
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<tr>
<td><strong>Faculty Mentor: Gilberto Flores</strong></td>
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<tr>
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<td><strong>Graduate, Department of Chemistry and Biochemistry</strong></td>
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<tr>
<td><strong>Faculty Mentor, Eric Kelson</strong></td>
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<tr>
<td><strong>Abstract Title:</strong> Preparation of Terpyridine based anti-tumor agents</td>
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<td><strong>Undergraduate, Department of Child and Adolescent Development</strong></td>
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<tr>
<td><strong>Faculty Mentor: April Taylor</strong></td>
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<tr>
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<td><strong>Undergraduate, Department of Health Sciences</strong></td>
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<tr>
<td><strong>Faculty Mentor: Carrie Saetermoe</strong></td>
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<tr>
<td><strong>Abstract Title:</strong> Breastfeeding in the 1950's</td>
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<td><strong>Faculty Mentor: Pamela Byrd-Williams &amp; Ericka Brockman</strong></td>
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<tr>
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CAMINO Thesis Talks

**Calvin Abbasi**
Graduate, Department of Communicative Disorders  
Faculty Mentor: John Kephart  
*Abstract Title:* Towards a Nonviolent Intersocial Rhetorical Model

**Dalal Almutib**
Graduate, Department of Kinesiology  
Faculty Mentor: Teri Todd  
*Abstract Title:* Differences of Motor Skills between College Students with and without Autism Spectrum Disorder using a motion analysis system

**Kimberly Arellano**
Graduate, Department of Health Sciences  
Faculty Mentor: Vicki Ebin  
*Abstract Title:* Measuring young adults’ health insurance literacy: A pilot study

**Evelyn Cubias**
Graduate, Department of Health Sciences  
Faculty Mentor: Kaitlin Bahr  
*Abstract Title:* Optimum Health Specifics

**Ameer Dahar**
Graduate, Department of Health Sciences  
Faculty Mentor: Suzanne Spear  
*Abstract Title:* Successful Peer Based Naloxone Distribution Program Practices

**Cathy Francisco**
Graduate, Department of Kinesiology  
Faculty Mentor: Steven Loy  
*Abstract Title:* Implementation of Community-Based Exercise Program Across the CSU System: A Specific Approach in Chico and Long Beach

**Jaskiran Mangat**
Graduate, Department of Kinesiology  
Faculty Mentor: Suzanne Spear  
*Abstract Title:* Substance Use in Punjab, India and the Need for Screening, Brief Intervention and Referral to Treatment (SBIRT) Programs

**Steven Mendoza**
Graduate, Department of Kinesiology  
Faculty Mentor: Steven Loy  
*Abstract Title:* Expansion of a free exercise program across the California State University System
Christopher Rogers
Graduate, Department of Health Sciences
Faculty Mentor: Stephanie Benjamin
Abstract Title: Perceived health trends and associated health factors reported in a college sample

Takehito Sugawara
Graduate, Department of Kinesiology
Faculty Mentor: Kimberly Henige
Abstract Title: How does student-centered learning in an exercise physiology course affect students’ emotion and scope of attention?
# College Liaisons

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<tr>
<td>Casey terHorst</td>
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<tr>
<td>Danielle Jarvis</td>
<td>Department of Kinesiology</td>
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<tr>
<td>Debbie Ma</td>
<td>Department of Psychology</td>
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<tr>
<td>Elizabeth Sussman</td>
<td>Department of Family &amp; Consumer Sciences</td>
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<tr>
<td>Matt Jackson</td>
<td>Department of Theatre</td>
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<td>Melisa Galvan</td>
<td>Department of Chicana/o Studies</td>
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<tr>
<td>Tami Abourezk</td>
<td>Asst. VP of Undergraduate Programs</td>
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<tr>
<td>Tyler Luchko</td>
<td>Department of Physics/Astronomy</td>
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<tr>
<td>Vidya Nandikolla</td>
<td>Department of Mechanical Engineering</td>
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With special thanks to the following:

- **Wendy Brown-Danks**, Events Coordinator
- **Hedy Carpenter**, Director of Graduate Programs
- **Elizabeth Sussman**, Faculty Liaison for the Office of Research and Graduate Studies
  - **Graduate Student Assistants:** Nelly Geronimo, Nelly Marutyan, Nicole Mayo, Augustine Mazi, Eduardo Medrano, and Jasmine Rodriguez
- **Stephanie Friesen**, Grant Coordinator
- **Crist Khachikian**, Associate Vice President for Research and Graduate Studies and Graduate Dean
  - And the entire Research and Graduate Studies staff
## Faculty Judges List

Ahmed Alwan  
Alejandra Acuna  
Amy Levin  
Annette Besnilian  
Anwar Alroomi  
Bobby Espinoza  
Caitlin Fong  
Casey terHorst  
Charlotte Bergheimer  
Cheryl Van Buskirk  
Christina Mayberry  
Christoph Schaal  
Colleen Tripp  
Crist Khachikian  
Cristian Ruiz-Rueda  
Crystal Rogers  
Cynthia Williams  
Daniel Jarvis  
Daniel Rastein  
Daniel Tamae  
David Bermudes  
David Boyns  
Debbie Ma  
Dmitry Rachmanov  
Elise Fenn  
Elizabeth Sussman  
Ellis Godard  
Fritz Hertel  
Gilberto Flores  
James Craine  
Jeanne Robertson  
Jeffrey Kaja  
Jessica Kim  
Jim Craine  
Jim Hogue  
Jing Li  
Jodi Brown  
Jonathan Martinez  
Joy Doan  
Julian Lozos  
Justin Kantner  
Justine Su  
Kah Chun Lau  
Kandice Grote  
Karin Crowhurst  
Kimberly Embleton  
Li Gao  
Linda Reid-Chassiakos  
Luiz Mendes  
Maggie Shiffrar  
Maria Elena De Bellard  
Mariano Loza Coll  
Mary-Pat Stein  
Maryam Tabidzadeh  
Matthew Jackson  
Mechelle Best  
Megha Patel  
Merril Simon  
Mia Adreani  
Michael Carter  
Michael Summers  
Mirna Sawyer  
Nelida Duran  
Nola Kennedy  
Omid Orouji  
Paul Wilson  
Ravinder Abrol  
Ray Hong  
Roxane Moschatti  
Sattar Taheri-Araghi  
Sean Murray  
Shadi Mahjoob  
Sherrie Hixon  
Shirley Lang  
Stefanie Drew  
Stephanie Benjamin  
Steve Dudgeon  
Svetlana Tyutina  
Tovah Sands  
Vahab Pournaghshband  
Victoria Graham  
Vida Liu  
Vidya Nandikolla  
Wladimir Lyra  
Yue Zheng
Faculty Mentor List

Alejandra Acuna	George Kioussis	Nhut Ho
Abraham M. Rutchick	Gilberto Flores	Nola Kennedy
Allen Lipscomb	Heidi Schumacher	Omar Ruvalcaba
Alyssa Arentoft	Holli Tonyan	Pamela Byrd-Williams
Amalie Orme	Jared Ashcroft	Paula Schiffman
Ana Sanchez-Munoz	Jeanne Robertson	Peter Bishay
Annette Besnilian	Jessica Vey	Preston Kelber
April Taylor	Jheem Medh	Que-Lam Huynh
Bingbing Li	Jill Quilici	Rachel Giraud
Boris Ricks	Jill Razani	Rachel Mackelprang
Carrie Saetermoe	Jodi Brown	Randy Cohen
Casey terHorst	Joe Bautista	Ray Hong
Cathy Costin	Jonathan Kelber	Renee Moreno
Cheryl Van Buskirk	Jonathan Martinez	Rheem Medh
Christoph Schaal	Jongeun Kim	Robert Carpenter
Cindy Malone	Joshua Schwartz	Robert Espinoza
Clementine Oliver	Judith Anne DeBonis	Rosa Angulo-Barroso
Colleen Tripp	Justin Kantner	Roya Mavaddat
Cristian Ruiz Rueda	Kandice Grote	Ruby C. Brougham
Daniel Katz	Karim Crowhurst	Sabina Magliocco
David Bermudes	Kenya Covington	Samantha Butler
David Gray	Kerry Cooper	Samantha Fields
David McCarty-Caplan	Lesley Krane	Samira Moughrabi
Debbie Ma	Li Gao	Sattar Taheri-Araghi
Dena Herman	Lisa Banner	Scott Kleinman
Dezzie Prewitt	Margaret Roller	Scott Plunkett
Dianah Wynter	Maria De Bellard	Sean Flanagan
Diane Gehart	Mariano Loza Coll	Sean Murray
Dimpal Jain	Mark Sergi	Shu-Sha Angie Guan
Donal O'Sullivan	Mark Steele	Stephanie Drew
Donna Sheng	Maryam Tabibzadeh	Stephan Chun
Elena Miranda	Meeta Banerjee	Stephanie Benjamin
Elizabeth Sussman	Melissa Wall	Stephanie Kim
Ellie Kazemi	Michael Bryson	Steve Dudgeon
Eric Kelson	Michael Summers	Sue Sears
Erica Wohldmann	M. Woldeamanuel	Sun-Mee Kang
Ericka Brockman	Nan Yamane	Suzanne Spear
Tadeh Zirakian
Taeboem Oh
Taeyou Jung
Takashi Ito
Tara Fahmie
Teri Todd
Terrie Mathis
Thomas Minehan
Tim Karels
Vahab Pournaghshband
Vibhav Durgesh
Vicki Ebin

Virginia Huynh
Virginia Vandergon
Wei Cao
Wendy Murawski
William Garrow
Wladimir Lyra
Zeynep Toker
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<td>Aidan Kim</td>
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<td>Akinwande Akinwunmi</td>
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