

Poster Session II, 4:30 pm – 5:30 pm

The poster sessions will be in the Bronco Student Event Center, Building 35, Ursa Major. At least one author should be with the poster for the entire session. Please take this opportunity to discuss your project with other student researchers. The even numbered posters will be in Poster Session I, the odd numbered posters will be in Poster Session II. The odd number posters are below, arranged alphabetically by author.

- 201 Self-Efficacy and Beliefs in Life after Death**
Grace Allyn, California State University Channel Islands
- 199 The Importance of Parent-Adolescent Interaction and the Development of Entitlement**
Vanessa Alvarez, California State University Channel Islands
- 167 A Comparison of Polycrystalline Garnets in Micaschists From the Southern Mendocino Massif, Turkey and the Southern Rocky Mountains, British Columbia**
Caitlin Anderson, Occidental College
- 67 Host-Independent *Bdellovibrio bacteriovorus* Phenotypic Response to *E. coli* Prey**
Thomas Andre, Occidental College
- 93 Novel Venom Peptides From Hawaiian *Conus catus***
Sheryl Baptista, Occidental College
- 211 The Relationship Between Parent Educational Achievement and Subjective Life Satisfaction in Adults**
Laurel Barnes, California State University: Channel Islands
- 77 Molecular Dynamics of Human Butyrylcholinesterase towards the Design of Selective Inhibitors**
Tejas Bondade, Cal State University Fullerton
- 135 Automated Moveable Magnetically Controlled Valve in a Microfluidic Device**
Dan Botoaca, Alexandre Santini, California State University, Los Angeles
- 41 Evolutionary relationships and physiological traits of agaves and yuccas with contractile roots**
Erin Brinton, Occidental College
- 23 Comparative Feeding Structures of the Santa Ana sucker (*Catostomus santaanae*), a specialized benthic algae eating fish (Teleostei, Catostomidae)**
Gregory Brittain Jr., California Polytechnic University Pomona
- 165 Apatite fission-track evidence for post-collisional exhumation of the Tauern Window, Austrian Alps**
Elizabeth Brown, Occidental College
- 19 Role of Vagus Nerve in Cervical Remodeling**
Alexandra Burns, University of Redlands
- 223 Theory of Mind and Social Functioning in Natural Sciences versus Social Sciences Undergraduate Students**
Ashley Callan, Katherine Campanelli, Meghan Miles, Kristen Hewlett, and Julie Bagley, California State University Channel Islands
- 173 Baseflow Recession of Springs in Icehouse Canyon, San Gabriel Mountains, CA**
Lauren Carey, Joseph Pomona
- 15 The Role of Xwnt-3A in Inner Ear Development of *Xenopus laevis***
Elysia Carnegie, Joseph Gheorghe, University of Redlands
- 143 Photochemical conversion of cyclopentadienyl iron toluene hexafluorophosphate to tris-(phenanthroline)iron (II) monitored with absorbance spectroscopy and cyclic voltammetry**
Thomas Carr, Pepperdine University

Poster Session II, 4:30 pm – 5:30 pm

- 129 Protection of Magnesium Anodes for Use in Secondary Batteries**
Danielle Casillas, Cal Poly Pomona
- 3 Exploring the Role of Calmodulin-dependent Kinase II in Long Term Potentiation**
Abhishek Chadha, University of California, Irvine
- 79 Effect of nicotine on the formation of hemoglobin A1C in human blood**
Joseph Chan, University of California-Riverside
- 213 Headache Survey: Is Headache Related to Other Mental Disorders?**
Cheng-Hsiu Chen, Crafton Hills College
- 241 Orbitofrontal cortex lesions impair responses to cue predicting shifts in work to reward**
Jack Chen, Lina Chmiel, Victor Cazares, Cal State LA
- 121 Development of a Temperature Control Using PLC**
Ashley Cheney, California State Polytechnic University, Pomona
- 43 Multiple Paternity In The Lynx Spider Peucea Viridans (Araneae, Oxyopidae)**
Victoria Chirikian, Elizabeth Wight, Loyola Marymount University
- 193 The Role of Self Centeredness in Goal Achievement**
Shirley Chung, California State University, Channel Islands
- 21 Investigation into Horizontal Transmission of Wolbachia in Drosophila melanogaster**
Jaclyn Cooperrider, University of Redlands
- 175 Newly discovered thrust belt, Coast Mountains Batholith, Bella Bella, British Columbia**
Kelly Curtin, Occidental College
- 75 Exploring the Umami Taste Mechanism through Molecular Modeling and Simulation - Metabotropic Glutamate Receptor Subtype 4**
Desiree Daniels, Cal Poly Pomona
- 37 Camouflage as potential function of scorpion fluorescence**
Mark De Guzman, California State University, Bakersfield
- 131 Childproofing Your Toys: Designing Safety into Laser Systems**
Christopher Detmar, California Polytechnic University, Pomona
- 159 Identification of Enantiomeric Interactions in Zeolites by Solid State NMR**
Tram Duong, Hien Huynh, Jill Carreon, Erika Martinez, Mount St. Mary's College
- 91 Studies of Metallo-B-Lactamase Variants**
Kevin DuPrez, Alejandro Larios, Cal Poly Pomona
- 7 The Role of cdk5 in Hippocampal-dependent Memory Formation**
Omer Durak, California Institute of Technology
- 99 Differential protein expression profiling between ER-negative breast cancer cells and normal cells using 2-D proteomics**
Chinyere Emoka, Anthony Diaz, CSUDH
- 63 Trypsins in July: A Red/Green Screen for FA Uptake Mutants**
Holly Evans, University of Redlands
- 125 Response of Nitrate Sensors in a Saturated Soil Column**
Joseph Ferrer, Julian Hylton, Loyola Marymount University
- 151 Studies of the Photochemical Delakylation Reactions of 2-Alkylamino-1,4-naphthoquinones**
Sarah Jane Fischer, Occidental College

Poster Session II, 4:30 pm – 5:30 pm

- 61 Using Mouse Models to Determine the Relationship between Down syndrome and Tumor Suppression**
Adam Flook, Tenley Rawlings, University of Redlands
- 163 High Efficiency Stoves in Northern Uganda**
David Fong, Occidental College
- 235 Approaching Damascus: The Future of American Policy in the Middle East**
Brian Francisco, Occidental College
- 229 Latino/a identities and support sources: The significance of home, courses, and co-curricular activities**
Cristina Franco, Occidental College
- 73 Peptide inhibition of AF10/hDot1L coiled coil interactions**
Megan Freeland, University of Redlands
- 87 Investigation into the metabolism of hydrogen peroxide damaged creatine kinase**
Mario Gallardo, California State University Los Angeles
- 89 Synthetic phenolic compounds BHA and BHT are not a significant cause of double-strand breaks in *S. cerevisiae***
Christian Gallardo, Pomona College
- 117 Comparison of Algae Growth Rate and Lipid Biosynthesis in Closed Bioreactors and Open Flasks**
Jo Goh, CSU Pomona
- 123 Effect of Electrodeposition Conditions on Magnetotransport Properties of a Single NiFe/Cu Multilayer Nanowire**
Bryan Goldsmith, UC Riverside
- 49 Tree Demography and Stand Characteristics in Recovering Tropical Secondary Rainforest**
Chris Gurney, Claremont McKenna College
- 137 Structure Elucidation and Quantitative Compositional Profiling of Heparin and Heparan Sulfate**
Sarah Gutierrez, University of California Riverside
- 69 Di-n-Butyl-2-Chlorophenyl Phosphate: A Highly Specific Inhibitor of Butyrylcholinesterase**
Mary Han, Gretchen Whitney High School
- 133 Diagnostic Test Strip Fabrication Using Lateral Flow Reagent Dispenser**
Annie Han, Vivian Webb School, Tristan Raniga, Upland High School, Sharyn Taquino, Upland Junior High School
- 71 Cell wall analysis of *Neurospora crassa* using atomic force microscopy (AFM)**
Stella Hartono, California State Polytechnic University, Pomona
- 35 Water Stress and Availability of *Prosopis glandulosa* (Honey Mesquite) in Varying Substrates in the Central Mojave Desert**
Elizabeth Hessom, California State University, Fullerton
- 231 Urban Space Transformation in Contemporary Shanghai**
Iyleen Ismail, Brian Wobst, Cassandra Peisel, Sara Adams, University of Redlands
- 111 The Future of Fashion through Mass Customization: Practices in the US Market**
Inanta Juwono, California State Polytechnic University, Pomona
- 161 Marangoni Flow of Nanostructures from the Fluid-Fluid Interface to Glass**

Poster Session II, 4:30 pm – 5:30 pm

Barry Kang, Occidental College

- 25 Growth-Related Effects of Phytotoxins and Herbicides on Two Plant Species**
Megan Kard, University of Redlands
- 153 α -Crystallin Tryptic Digests**
Zachary Keough, University of Redlands
- 31 Correlation Between Coliform Bacteria and Invertebrate Community Composition, in Streams of Monteverde, Costa Rica**
Rachel Keylon, Occidental College
- 5 Investigating the role of layer 2/3 and layer 5 pyramidal neurons in the generation of epileptiform activity in neocortex.**
Sattar Khoshkhoo, University of California, Los Angeles
- 127 Optimal Etchant for Roughening the Surface of a p-type GaN LED**
Jeong Hee Kim, University of California at Santa Barbara
- 51 New species of south Pacific deep sea nudibranchs of the genus Armina**
Jackson Lam, California State Polytechnic University, Pomona
- 181 Weak Lensing and Measurements of Multiband Galaxy Morphologies**
Anson Lam, Caltech
- 105 Endothelium-mediated signaling in vascular smooth muscle cells of rat soleus feed arteries**
Han Lee, Pepperdine University
- 107 Grocery shopping requests as reported by Hispanic children in Los Angeles County.**
Erin Lehman, California State Polytechnic University Pomona
- 253 Understanding its Impact: Universal Primary Education in sub-Saharan Africa**
Katherine Lewis, Occidental College
- 183 Comparison between Simulated and Observational Results of Galaxy Formation for large scale structures**
Gongjie Li, California Institute of Technology
- 169 Mtbe Contamination Of Groundwater In The San Diego And Riverside County Areas Of California**
Errick Llamas, CSU Dominguez Hills
- 191 Gender Differences and the Importance of Family Life to Overall Well-being**
Jennifer Long, California State University Channel Islands
- 209 Beyond Self-Esteem and Gender: Age and Hopeful Thinking**
Jenissa Mac Vie, California State University - Channel Islands
- 205 The Pursuit is Happiness**
Nicholas Macias, California State University Channel Islands
- 103 Understanding Circadian Rhythms in Acetabularia**
Daniel Marin, California State University, Los Angeles
- 85 A Novel Assay for Assessing the Ability of Polyglutamine Tracts to Aggregate**
Anthony Martin, Loyola Marymount University
- 113 Instrumentation, Flight Testing, and Dynamic Modeling of a UAV Helicopter**
Manuel Martinez, Miguel Gonzalez, Cal Poly Pomona
- 39 Chemical detection of predatory ants by *Stenamma expoliturum***

Poster Session II, 4:30 pm – 5:30 pm

Stefanie Mattingly, CSUDH

- 179 Lacunarity Analysis of Large Scale Cosmological Structure**
Kyle McCormick, Loyola marymount University
- 247 City on A Hill: Llano del Rio as Los Angeles' Utopian Experiment**
Brenda McNary, Occidental College
- 177 MISR Stereo-heights of Grassland Fire Smoke Plumes in Australia**
Shirley Mims, California State University, Los Angeles
- 251 Art Project Theatre Company**
Danielle Mohlman, Robert Redd, Cal Poly Pomona
- 219 Exploring the Benefits of Summer Undergraduate Research through Program Assessment**
Sarah Moore, Pepperdine University
- 255 Neotectonics and geomorphology of uplifted Quaternary marine and fluvial terraces at Puerto Carrillo and Río Ora, Nicoya Peninsula, Costa Rica**
Shawn Morrish, Cal Poly Pomona
- 215 The Role of Marriage Myths and Benevolent Sexism in Premarital Outcomes**
Samera Muhareb, Bren Chasse, Cal Poly Pomona
- 227 Biculturalism and Conflict Resolution Styles**
Joon Nam, Lauralyn Pasion, Han Roh, Nara Im, UC Riverside
- 33 Water Transport Properties in Leaves of Post-fire Resprouts Compared to Pre-fire Adults of Heteromeles arbutifolia**
Gabiella Orona, Whittier College
- 45 Investigating Hydraulic Redistribution in two desert shrubs: Atriplex hymenelytra and Isocoma acradenia**
Daisha Ortega, California State University, Fullerton
- 55 Assessing the Role of Integrin and Caspase 8 Expression in Neuroblastoma Progression**
Mary Rose Pascua, Loyola Marymount University
- 147 Guanine derivatives as precursors for G-Quadruplex Formation**
Elyse Paterson, Abigail Fall, Loyola Marymount University
- 237 The Accessibility of Farmers' Markets in Los Angeles County**
Pam Patipanavat, University of Southern California
- 95 Effects of Caffeine on Oxidative DNA-Protein Cross-linking**
Zitadel Perez, Sachi Lupica, Mount St. Mary's College
- 47 Identifying Species Response to Changing Light and Salinity at Weeks Bay**
Alexandria Pivovarovoff, Whittier College
- 249 The Mass Media and its Effect on Young Voters**
Jessica Price, Chapman University
- 97 Effects of Vitamin C on Oxidative DNA-protein cross-linking**
Brandie Proctor, Nicole Bruner, Amanda Madison, Mount St. Mary's College
- 171 Magnetic Susceptibility and X-Ray Diffractometry of the NSL-1B-9 Core Drive from Soda Lake, Carrizo Plain, CA.**
Raquel Ramirez, California State University, Bakersfield

Poster Session II, 4:30 pm – 5:30 pm

- 109 Quality, Consumer Acceptance and Shelf-Life of Gluten-Free Cakes**
Avideh Razavi, Kristine Prado Cal Poly Pomona
- 13 The Role of Protein Disulfide Isomerase in Drosophila melanogaster Dorsal Appendage Morphogenesis**
Danielle Ross, California State University Dominguez Hills
- 203 Police Officers and General well-being**
Deborah Rubright, California State University Channel Islands
- 189 Effects of Education on Quality of Life**
Marlena Schumacher, California State University Channel Islands
- 53 Probing Drug-induced Structural Changes in Human Serum Albumin through Shifts in Carbon Monoxide Stretching Frequency**
Forum Shah, California State University Long Beach
- 1 Temporal Characteristics of Central Vasopressin and Nitric Oxide Release from the Rat Supraoptic Nucleus after Hyperosmotic Stimulation**
Anoush Shahidzadeh, University of California, Riverside
- 83 Screening of Biological and Synthetic Compounds for the Discovery of Substances that Prevent A β 42 Amyloid Formation**
Eletta Shiferraw, Daniel Georgie, Jessica Vargas, Marlon Maducdoc, Nina Semnani, Loyola Marymount University
- 81 Hatching glands and chorionase in the California grunion, *Leuresthes tenuis***
Jennifer Sledge, Pepperdine University
- 225 Living with Loss**
Mackenzie Smith, Pomona College
- 239 The Sounds of Stress: The Effects of Audible Stressors on Time Perception**
Daniel Snipes, Cerritos College
- 197 The Effects of Music on Well-Being**
Alberto Soria, CSU Channel Islands
- 27 Use of shade trees to reduce leaf herbivory of *Coffea arabica* by *Atta cephalotes* (Formicidae) on farms in Cañitas, Puntarenas, Costa Rica**
Tyler Stuart, Occidental College
- 11 Analysis of axon and synapse development in *C.elegans* zyg-8 and lis-1 mutants**
Garland Tang, Farah Shirazi, Occidental College
- 17 Induction of MCF-7 Cells with Anthocyanins Leads to Antiproliferative Effects in Cell Cycle**
Jessica Tang, University of California, Santa Barbara
- 59 Studies of The Antimicrobial Activity of MgO Aerogels**
Li Jun Teh, Joseph Chan, Danielle Casillas, Melissa Sy, UC Riverside
- 221 Gender Gap Over Military Aggression**
Nicole Tellier, Chapman University
- 139 Development of a Sensitive and Efficient Extraction and Detection Method for Theophylline--a Commonly Prescribed Medicine for Asthma and Bronchitis patients**
Luis Thompson, California State University San Marcos
- 233 The Outsiders: (Non)Student Activism, 1964-1972**
Rene Tiongquico, University of California, Los Angeles

Poster Session II, 4:30 pm – 5:30 pm

- 29 Behavioral variation of *Microtylopteryx hebardii*, a treefall gap inhabiting grasshopper of the Costa Rican rainforest**
Lauren Valbracht, Occidental College
- 101 Proliferation and Differentiation of Human Fetal Osteoblasts on Various Extracellular Matrices**
Matthew Valdez, University of California, Riverside
- 65 The Equine Immune Response to *Corynebacterium pseudotuberculosis*: A Murine Model**
Luca Valle, Occidental College
- 187 A Measurement of Attitudes among Healthcare Workers and Patients towards Persons Living with HIV/AIDS (PLHA) in Rural India**
Kartavya Vyas, University of California, San Diego
- 141 The Glucose-6-Phosphate Dehydrogenase Dimer Interface: Proteolytic Studies with NADP Analogues**
Carly Wachi, Occidental College
- 145 Triserine Lactone Receptors for Anion Recognition**
Christopher Walowski, California State University, Long Beach
- 155 Tryptic Digest of alpha-Synuclein From the Brain Tissue of Parkinson's Disease Patients**
Amanda Walsh, University of Redlands
- 207 Emotional Well-Being Among Military Personnel**
Breanna Walters, California State University Channel Islands
- 57 Genetic Characterization of the Role of Vitamin K Epoxide Reductase in Mycobacterial Disulfide Bond Formation**
April Wayman, Mount St. Mary's College
- 119 Unbonded Post-Tensioned Concrete Beams With Utility Holes & Repaired With Cfrp**
James Weldon, California State University Fullerton
- 243 Evolved Navigation Theory Applied to Horizontal Surfaces**
Willey, Chela, California State University, San Marcos
- 157 The Effects of Fenton's Reagent on Nafion**
Andrea Williams, CSU San Bernardino
- 149 Synthesis and Binding analysis of N-(o-hydroxybenzyl)iminodiacetic acid and Carboxymethyl-(2-hydroxy-benozyl)-amino)-acetic acid**
Julie Yang, California State University Los Angeles
- 185 Calculable Congestion: Modeling Effects of Traffic Lights on Traffic Flow Using ODEs and PDEs**
Zhengyi Zhou, Occidental College
- 245 An Analysis of the Economic Implications of Singapore's Recent Water Projects towards Self-Sufficiency**
Zhengyi Zhou, Occidental College
- 195 Politics and Protests: The impact of a positive attitude towards current politics, policies, and protests on hope, global wellbeing, and self-esteem.**
Carla Zimmerman, California State University of Channel Islands
- 217 Schizophrenia, Emotion, and Memory**
Lisa Zweig, Cal Poly Pomona