

Poster Session I, 1:45 pm – 2:45 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 even number posters are below, arranged alphabetically by author.

- 102 The Role of Cobinamide and DOS Monitoring as New Treatment Approaches for Mass Casualty Cyanide Poisoning**
Rebecca Ahdout, University of California, Los Angeles
- 60 Isolation of Genes Encoding Human Mitochondrial Transmembrane Transporters**
Jason Alvarez, California State University Long Beach
- 182 Fiber Optic Evanescent Wave Sensors**
Gabriel Andaya, California State Polytechnic University, Pomona
- 190 The Effects of Yoga Practice on Global Well Being**
Jessica Anderson, California State University Channel Islands
- 250 Tattooing: Shifting Society's View**
Frank Arebalo, Chapman University
- 50 Effects of Heavy Trail Use on Seed Dispersal and Herb Distribution**
Lisette Arellano, UC Santa Barbara, College of Creative Studies
- 244 What Is Holding Back Mexican Immigrant Entrepreneurs?**
Javier Avalos, Occidental College
- 198 Social Isolation's Effect on Well-Being**
Dawn Baker, California State University Channel Islands
- 132 Improvement of Lubricant Properties of Sunflower Oil through Saturated Fatty Acid Additives**
Patrick Baumgart, Loyola Marymount University
- 110 The Effects of Maternal Age on the Prevalence of Autism**
Melissa Bilbao, California State Polytechnic University, Pomona
- 144 Reducing Fuel Permeation Across a Polyurethane Membrane**
Megan Boyd, Cal Poly Pomona
- 70 The Effect of Endocrine Disruptors Bisphenol A and Di-n-Butylphthalate on Cholinesterases**
Michael Brown, California State University, Long Beach
- 64 The Role of GATC Flanking Sequences in the Methylation Efficiency of Escherichia coli DNA Adenine Methyltransferase**
Ana Castillo, Mount St. Mary's College
- 22 Evolutionary Changes in the Digestive Tract of the Neotropical Parasitic Catfishes (Teleostei, Trichomycteridae)**
Stephen Chen, En Chen, California State Polytechnic University of Pomona
- 134 Application of Headspace SPME-GC/MS to Non-Intrusively Characterize the Aging of Rare Books**
Andrew Clark, Pepperdine University
- 226 Psychophysiological Markers of Jealousy vs. Anger**
Sabina Colombeau, Occidental College

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- 40 Comparing and contrasting root and leaf properties of tropical and desert agaves**
Rebecca Corbett, Occidental
- 200 Retirement, Accomplishments, and Global Well-Being: Pathways to Peace**
Christine Cortez, California State University Channel Islands
- 206 Who's Got High Hopes?**
Charlotte Cubitt, Cal State University Channel Islands
- 54 Determination of Protein-Ligand Binding Constants of Human Serum Albumin with Warfarin, Ibuprofen, Phenylbutazone, and Heme, Using Differential Scanning Calorimetry**
Khomthorn Cunvong, California State University, Long Beach
- 196 The Relationship of Gender and Honesty**
Miranda D' Angelo, Cal State Channel Islands
- 210 Generational Shifts in Personal Responsibility**
Lynette Davidson, California State University Channel Islands
- 192 Global-Well Being, Self Esteem, and Regular Exercise Among Women**
Meghan Davy, California State University Channel Islands
- 82 Digestive Enzymes of the Giant Keyhole Limpet**
Jessica Day, Occidental
- 36 Effects of Delayed Hatching on Development and Swimming Speed in the California Grunion, *Leuresthes tenuis***
Allyson Degrassi, California State University, Fullerton
- 176 The Effect of Water Conservation Education on Student Behavior**
Juliette Donatelli, Whittier College
- 78 Molecular Dynamics Simulation of Conformational Changes of Mycobacterium Tuberculosis pyrR Protein Induced by UMP Analogs**
Xiao Dong, California State University, Fullerton
- 222 Rey III: Redeveloping the Rey II Screening Test of Malingering**
Natacha Donoghue, Occidental College
- 230 The Relationship between Acculturation, Self-Esteem and Home Visitation: A Portrait of Oxy Latinas/os**
Jenny Enciso, Occidental College
- 246 Politics of U.S. Immigration Reform: Is a Point Based System the Future?**
John Ferguson, Occidental College
- 236 Cultural Construction of Value and Identity among California's High-Desert Dwellers**
Whitney Freedman, Chapman University
- 44 Biomagnification of Wetland Contaminants in Garden Spiders**
Sarah Fukui, Viviana Vallin, Loyola Marymount University
- 178 Cryogenic Mechanical and Thermophysical Property Measurements on Solid Icy Compositions with Relevance to Solar System Satellites**
Bryan Gonzalez, California Polytechnic University, Pomona
- 184 On the design and development of a Radon progeny recoil veto system for the DRIFT-IIb dark matter detector**
Clark Gordon, Occidental College

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- 12 Implementing A Cell Culture Method for Imaging *C. elegans* Neurons**
Fiona Gowen, Occidental College
- 204 Keys to Emotional Well-Being: The Role of Social Networks**
Brenda Greenwell, California State University Channel Islands
- 212 To Marry or Not: Hope, Family Closeness, and Well-being among Singles**
Jessica Hammer, California State University Channel Islands
- 32 Extra-Floral Nectary Size Variance in *Ricinus communis***
Nicholas Harrell, Casey Pang, Occidental
- 118 Time Dependent Characteristics of Focal Adhesion Formation in Correlation to Various Fibronectin Concentrations**
Stella Hartono, California State Polytechnic University, Pomona
- 84 Identifying the Aggregation-Prone Regions of the Type II Diabetes-Linked Peptide Islet Amyloid Polypeptide (IAPP)**
Daniel Harwood, Matt Cheney, Chris DalChele, Loyola Marymount University
- 66 A Yeast Bioassay for START Domain Function in Transcription**
Cuiwen He, UCLA
- 24 Fluctuating asymmetry as an indicator of stress for coastal wetland plants and animals.**
Daryle Hinton-Hardin, LaRie Burgoyne, Mackenzie Shribbs, Loyola Marymount University
- 154 Distinguishing Between L- and D-Serine By Using Tryptic Digest Peptide Glycine-Leucine-Serine-Lysine**
Tiffany Hoh, University of Redlands
- 108 Quality of Systems of Health Care as Indicated by the Efficiency of Emergency Rooms**
Madolyn Hollowed, Occidental College
- 124 Studies on Electrochemical Synthesis, Characterization, and Fate of Nanoparticles in Aquatic Environments**
Ryan Honda, University of California, Riverside
- 114 Construction and Characterization of a De Novo Designed Library of TIM-Barrel Proteins**
Kimberly Horwood, Thibaut Snollaerts, Loyola Marymount University
- 18 MicroRNA Regulation in Stem Cell Differentiation**
Dafina Ibrani, UCLA
- 106 The Endorsement of Healthcare Expansion by the Latino Community**
Mark Johnston, Chapman University
- 164 Geochemical characterization of geological and archaeological chert samples from southwest France by Laser-Ablation Inductively-Coupled-Plasma Mass-Spectrometry (LA-ICP/MS)**
Jennifer Kalkis, California State University Bakersfield
- 126 Improving Mileage Efficiency of Hybrid Electric Cars by Recovering Wasted Suspension Energy**
Ruby Kandah, University of California, Riverside
- 74 Role of Vitamin D (1,25D) on H9c2 Cardiomyocytes Development and Cardiovascular Health**
Sonam Kapadia, University of Southern California (USC)

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- 202 Stress Analysis in California Firefighters and Police Officers**
Kari Katapodis, CSU Channel Islands
- 186 Increasing Six-Bricks Rocket Stove Brick Maker and User Efficiency**
Richard Kerr, Occidental College
- 240 Single-day binge dose regimen of methamphetamine impairs reversal learning in rats**
Charissa Kim, Jack Chen, Mike Berlin, Victor Cazares, Lori Scott, Cal State LA
- 48 The effect of summer water availability on water relations of riparian species located in the Western Cape of South Africa**
Brittany Kunz, Whittier College
- 52 Derivatives of Dialkyl Phenyl Phosphates as Potential Inhibitors of Butyrylcholinesterase**
Dennis Kuwaye, California State University, Fullerton
- 138 Development of a Sensitive and Efficient Extraction and Detection Method for Caffeine and Paraxanthine---- a major metabolite of caffeine**
Misa Le, California State University San Marcos
- 150 Preliminary Studies in the Enantioselective Synthesis of alpha-Aminophosphonate**
Junghye Lee, California State University of Long Beach
- 34 The Effects of pH Change on Moon Jellyfish Polyp Reproduction**
Andrew Lent, Santa Monica College/ Valley Torah High School
- 20 Resource Competition Drives Sympatric Speciation**
Randall Lin, Upland High School
- 188 Hispanic Medicinal Herbal Remedies and Cultural Competency**
Garik Linnastruth, Whittier College
- 170 Mtbe Contamination Of Groundwater In The Lahontan Region Of California**
Peter Mack, CSU Dominguez Hills
- 104 Residue at Position 93 of the Na⁺/Iodide Symporter(NIS) Plays a Critical Role in Na⁺/Substrate Coupled Transport**
Matthew Maestas, Cal Poly Pomona
- 10 The Role of Microtubule End Binding Proteins in Axon and Synapse Development in C. elegans**
Katherine Malcolm, Occidental College
- 180 Towards A Census Of Quasar Jet Speeds From Radio Reference Frame VLBA Observations**
Christopher Marvin, Whittier College
- 86 Characterization of Acinetobacter radioresistens 50v1 through study of catalase**
Kelly McCoy, Timothy Wong, Cal Poly Pomona
- 146 Investigation into the Photosensitized Oxidation of Indole Derivatives**
Jacqueline McSweeney, Loyola Marymount University
- 248 Religiosity and Voting Behavior**
Yasmin Moaven, Chapman University
- 58 Genetic Blockade of iNOS Intensifies the Development of Fibrosis in a Model of Diabetes Type 1**
Joanne Moon, Cerritos High School

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- 68 Importance of Conserved Residues for the Proteolytic Function of a Serine Protease Autotransporter Protein**
Deana Nassman, California State Polytechnic University, Pomona
- 46 Effects Of Anthropogenic Water Inputs On Argentine Ant Invasion Of Riparian Areas Of Southern Orange County**
Kimberly Nelson, CSU- Fullerton
- 244 Vietnam-Path of Development**
Loc Nguyen, California State University, Fullerton
- 26 Seed Germination and Seedling Production and Physiology of Southern California Black Walnut**
Quynh Nguyen, Jennifer Boyd, California State Polytechnic University, Pomona
- 94 New Chemical Compounds from Environmentally Stressed *Bdellovibrio bacteriovorus* at Interfaces**
Vickie Nguyen, Occidental College
- 232 Herstories: The Experiences of Filipinas & Activism in a Local and Transnational Context**
Patricia Nguyen, Pomona College
- 130 Compressing 3-Dimensional EEM Data using Wavelet Transform**
Jeremy Nissen, Harris Handoko, California State Polytechnic University, Pomona
- 224 Deception, Social Desirability, and Emotional Arousal in Undergraduate Students with Higher versus Lower Skin Conductance Response**
Christianna O'Reilly, Daisy Cortes, Cristina Brooks, Heather Russell, Natalie Parker, California State University Channel Islands
- 98 An Investigation of Disaccharide-Induced Osmoprotection in *Sinorhizobium meliloti***
Daniel Orr, University of Redlands
- 148 Purification and Characterization of Recombinant Human Serum Albumin Expressed using the Methanol-trophic Yeast *Pichia Pastoris***
Shauna Otto, Kim Nguyen, California State University Long Beach
- 218 Creativity, Waking Sexual Behavior and Dream Content**
Olga Overmyer, Occidental College
- 208 The influence of competitive sports on self-efficacy and well-being.**
Eric Perry, California State University Channel Islands
- 128 Steam Hydrogasification of Biomass in a Stirred-Batch Reactor**
Sarah Pickrahn, University of California Riverside
- 76 Dissolving Blood Clots with Snake Venom Extracts**
Nancy Pineda, Whittier College
- 28 Comparison of the parasitism rates of a specialist caterpillar in the highlands of the eastern Andes of Ecuador**
Aleksandra Pokrovskaya, Occidental College
- 214 Who is interested in writing therapy?**
Maryla Porter, Crafton Hills College
- 160 A Combined FTIR and NMR Investigation of Covalently Modified EcoR1 Binding Sequence Dynamics**
Sarah Primrose, Claremont McKenna College

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- 92 Molecular Characterization of Sphingolipid Synthesis and Sterol Glucoside Mutants in Arabidopsis**
Yu(Grace) Qi, Troy High School
- 56 NMDA Blockade Suppresses L-dopa Induced Dyskinesias**
Johanna Quist, Occidental College
- 100 Posttranslational Modifications of Histones and HMG Proteins**
Heidi Redden, California State University, San Bernardino
- 234 Islamic Women: Poets and Politicos**
Alicia Rhodes, California Lutheran University
- 194 Pets As Family**
Kerry Richardson, California State University Channel Islands
- 174 Magnetic Stratigraphy Of The Madre De Dios Fm. (Miocene-Pliocene), Peruvian Amazon**
Nadia Rivera, Occidental College
- 142 Application of Artificial Neural Networks in the Prediction of Product Distribution in Electrophoretically Mediated Microanalysis (EMMA)**
Toni Ann Riveros, California State University, Los Angeles
- 96 Effects of Antioxidants from Pomegranate Juice on DNA-Protein Crosslinking via Guanine Oxidation**
Kasey Rodgers, Liana Marzvanyan, Mount St. Mary's College
- 156 The Effect of X-ray Exposure on Nafion® Membranes**
Amanda Rodriguez, California State University San Bernardino
- 4 Long Term Potentiation Induces the Phosphorylation of Focal Adhesion Kinase**
Yas Sanaïha, University of California, Irvine
- 74 Expression, Purification and Preliminary Characterization of GamC, a protein required for Salmonella enterica serovar Typhimurium virulence**
Olivia Sanchez, Pacific Northwest National Laboratory
- 116 The Investigation of in vitro Techniques for Culturing Ovarian Follicles: Alginate Beads and Microencapsulation**
Noriko Sausman, Univ. of California, Riverside
- 112 Preparing for Green Careers: Assessing the Presence of Environmental Communication in the Lives of Young Job Seekers**
Leigh Schaffer, Chapman University
- 216 Using the Theory of Planned Behavior to Predict Girls' Math Intentions**
Theresa Sciorba, Janelle Gross, Joo Young Lee, Adamina Camacho, Bren Chasse, Chloe Boyle, Marisol Santalla, California State Polytechnic University Pomona
- 122 Systematic Studies of Adsorption Enhanced Reforming for Hydrogen Production**
Rocio Sebhatu, Sakura Komuro, Vinh-Hai Pham, Cal Poly Pomona
- 62 SiRNA mediated gene therapeutic approach against RSV**
Edsel Lawrence Sinson, Cal Poly Pomona
- 38 The Hydrodynamic Origin of Whale Footprints**
Dmitri Skjorshammer, Harvey Mudd College
- 140 Mechanistic Studies of Carbonyl Insertion at a η^3 -[NCN]PtMe Complex**
Eva Smith, Scripps College

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- 2 Changes in Levels of Phosphorylated CaMKII (pCaMKII) and Protein Phosphatase 2B (PP2B) in Rat Hippocampus and Overlying Cortex after Traumatic Brain Injury (TBI)**
Ashley Rose Snyder, Pepperdine University
- 166 New paleomagnetic and rock magnetic evidence for rapid geomagnetic field change during polarity transitions**
Zachary Spahn, Occidental College
- 30 Seedling Recruitment in a Native Tree Plantation in the Lowland Tropical Rainforests of Costa Rica**
Joseph Statwick, Occidental College
- 8 Voltage Activated Currents in Zebrafish Hair Cells**
Thanh Sy, Yessenia Gutierrez, Mount St. Mary's College
- 80 Construction of Transcription Factor Expression Vectors to Examine Programmed Obesity**
Lucy Tang, Charles Drew University
- 90 Characterization of Polycomb proteins and their role in the mechanism of prostate cancer progression.**
Pamela Tangchitnob, Loyola Marymount University
- 228 Seeing is Believing: The Myths and Realities of the Model Minority Stereotype**
Mai Thai, Pomona College
- 6 The effects of preferential dopamine D3 receptor compounds in measures of PPI**
Niveditha Thangaraj, University of California, San Diego
- 220 The Effect of Convenience on Prosocial Behavior in High-Income and Low-Income Cities**
Jennifer Torres, Alexander Vinas, California State Polytechnic University, Pomona
- 136 Using LEGO Mindstorms™ NXT and Pasco Science Workshop™ to Enhance a Spectronic-20+ Spectrophotometer to a Scanning Single-Beam for Laboratory Demonstration**
Taryn Townsend, Pepperdine University
- 42 The Analysis of Non-structural Carbohydrates in Plant Tissue and an Application to Post-fire Chaparral Shrubs**
Courtney Traugh, CSU Bakersfield
- 252 Language and the Furry Community**
Kyle Ukes, UC Santa Barbara
- 152 Chiral Liquid Crystal Dopants Derived from Amino Acids**
Kyle Uyemura, Cal Poly Pomona
- 158 Inhibition of Oxidative DNA-Protein Crosslinking by Resveratrol**
Zoila Valdez, Bianca Wilson, Jessica Franks, Mount St. Mary's College
- 16 The Effect of Notch Signaling on Adipogenesis in 7F2 Mesenchymal Stem Cells**
Robert Vercio, Pepperdine University
- 162 The Influence of Sampling Protocol on Los Angeles Hydrocarbon Concentrations**
Nicholas Von Der Ahe, Loyola Marymount University
- 88 In Silico Analysis Of The Common Properties Of Chemicals That Inhibit Mdm2 Binding To P53 With The Potential Of Leading To Anti-cancer Therapy.**
Wayne Warner, California State University Los Angeles
- 172 Delineation of the SCE Hydroelectric Diversion System and Eroded Segments of the Old Mt. Baldy Road in San Antonio Canyon, Using GPS / GIS Technology**
Logan Wicks, Cal Poly Pomona

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- 242 Evolved Navigation Theory Applied to Horizontal Surfaces**
Chela Willey, California State University, San Marcos
- 120 Biologically Mediated Synthesis of Nanocrystalline Titanium Dioxide for Energy Applications**
Yobed Woldeabzghi, University of California Riverside
- 238 Reproduction of Haliotis fishhooks from San Nicolas Island, California Channel Islands**
Kaitlin Yanchar, California State University, Los Angeles