

## Poster Session D

<b>Anglo, Claudine - Human Development</b> Let Me Help: How Parent Involvement Lessens Internalizing Problems for Kids With Disabilities	54	<b>Conlin, Dana - Human Development</b> Internalizing Problems as an Antecedent to Peer Victimization: With Problem-Solving Coping as a Moderator	56
<b>Angulo, Shiela Leigh - Pharmaceutical Chemistry</b> Redox and Coordination Chemistry of Bis(pyridylimino)isoindoline Complexes of Ga(III) and Al(III)	17	<b>Cornejo, Zachary - Environmental Science and Management</b> Nitrogen Footprint Analysis of UC Davis	37
<b>Ashmore, Anne - Biological Sciences</b> Fruit Morphology and Developmental Deviation Within <i>Vanilla pompona</i> Subspecies	99	<b>Crocker, Sonya - Anthropology</b> Replicating History: Using 3D Printing to Materialize Antiquity	7
<b>Bamrungpong, Taechini - Fiber and Polymer Science</b> Colorimetric Sensor for Detection of Chloropicrin Fumigant Vapor	46	<b>Dekeater, Jenna - Anthropology</b> Physiological Versus Perceived Stress in Children and Adolescents	113
<b>Barrett, Dashiel - Materials Science and Engineering</b> Thermoelectric Properties of Yb <sub>14</sub> MnSb <sub>11</sub> Prepared by Expedited Metallurgical Synthesis	18	<b>Ellison, Daniel - Wildlife, Fish and Conservation Biology</b> Dissecting QTLs by Creating Large Chromosomal Deletions Using CRISPR/Cas9	102
<b>Benedict, Sarah - International Relations</b> Nitrogen Footprint Analysis of UC Davis	37	<b>Fates, Valerie - Animal Science</b> Effect of Age on the Tenogenic Ability of Tendon Proper-Derived and Peritenon-Derived Progenitor Cells in a Murine Model	4
<b>Berhane, Elsa - Clinical Nutrition</b> Early Gut Microbiota Composition and Cognitive Development in 6 Month Old Infants	110	<b>Fong, Angel - Environmental Science and Management</b>	35
<b>Bigelow, Benjamin - Neurobiology, Physiology and Behavior</b> Using an Ex Vivo Approach to Study the Gut-Brain Axis	11	Heavy Metal Sequestration by Douglas Firs on Serpentine Soil	
<b>Bussey, Tawny - Psychology</b> Emotional Face and Eye Gaze Processing in Typically and Atypically Developing Children	106	<b>Fonseca, Laura - Environmental Science and Management</b> The Effects of Emerging Amphibian Pathogens and the Implications on Natural System Health and Human Disease Incidence	34
<b>Canales Santiago, Arturo - Biotechnology</b> Zeta Potential of Olive Oil in Lipid Emulsions	27	<b>Galiccia, Mackenna - Biotechnology</b> The Use of K-mer Minimizers to Identify Bacterium Genomes in High Throughput DNA Sequence Data	76
<b>Chang, Kelly - Clinical Nutrition</b> An Apple a Day or an Apple a Week: The Role of Home Food Availability on Fruit and Vegetable Liking Across 4-6 Graders	62	<b>Gao, Esther - Clinical Nutrition</b> Gender Differences in Food Similarities Between Best Friend Dyads	60
<b>Chen, Dana - Biochemistry and Molecular Biology</b> Phosphodiesterase Type 5 and Beta-Adrenergic Receptor Interaction in Diabetic Cardiomyopathy	97	<b>Garcia, Jazmin - English</b> Nihilism in Metacinema: A Linguistic Approach	51
<b>Chong, Veronica-Rennea - Human Development</b> Differences in Victimization Between More and Less Ethnically Diverse Schools	57	<b>Gonsalves, Alexander - Biochemistry and Molecular Biology</b> Investigating Bioactive Compounds From Sea Sponge-Derived Actinomycetes	77
<b>Chris, Eva - Nutrition Science</b> Who Is Victimizing Whom in Ethnically Diverse Middle Schools? Exploring Links Between Inter and Intra-Ethnic Victimization, Victimization Attributions, and Coping Mechanism in American Middle Schools	58	<b>Gonzales, Julia - Chemical Engineering</b> The Minimization of Ammonia Volatilization in Urine and Ammonia Distillate Samples Using Mineral Oil	25
		<b>Gothberg, Ayumi - Biological Sciences</b> Functional Analysis of Rapidly Evolving <i>Bremia lactucae</i> Effector Recognized by Downy Mildew-Resistant Lettuce	105

<b>Guillen, Jesus - Statistics</b> The Association of Between Household Water Source and Child Length Among Older Infants in Western Kenya	89	<b>Johnson, Bridgette - Global Disease Biology</b> Measuring With Behavior How the Brain Commits to a Choice in a Simple Decision Task	66
<b>Gutierrez, Nathaniel-Georg - Biomedical Engineering</b> Applications of Microphone Array Algorithms and Eyetracking for Enhancing Selective Auditory Attention	87	<b>Kar, Anurupa - Psychology</b> A Novel Statistical Analysis of Prairie Vole Parenting	109
<b>Haile, Saba - Microbiology</b> The Asymmetry of Female Meiosis Reduces the Frequency of Inheritance of Unpaired Chromosomes	78	<b>Karageuzian, Sergio - Microbiology</b> Using Fluorescent Proteins to Study Host-Pathogen Dynamics During Host Cell Killing	75
<b>Hampton, Angela - Animal Science</b> Analyzing Alternative Diet Effects on Chicken Muscle Health	5	<b>Ketvirtis, Sabuk - Materials Science and Engineering</b> Effect of Convolutional Neural Networks on Automating Materials Science Research	24
<b>Hansen-Smith, Emma - Environmental Science and Management</b> Heavy Metal Sequestration by Douglas Firs on Serpentine Soil	35	<b>Kopa, Ryan - Materials Science and Engineering</b> Effect of Convolutional Neural Networks on Automating Materials Science Research	24
<b>Hernandez, Pedro - Biochemistry and Molecular Biology</b> Neuronal Death & Dysfunction Lead to Altered Oscillations & Impaired Learning & Memory in a Rodent Model of Traumatic Brain Injury	63	<b>Kulkarni, Sheila - Chemistry</b> Investigating Redox Properties of a Bis(imino)pyridine-Ligated Aluminum(III) Complex	15
<b>Howard, Zaahir - Food Science</b> Can Biochar Soil Amendments Reduce Nitrate Leaching?	40	<b>Kwong, Ming Yin - Chemistry</b> Synthesis of Ni-Doped BaFe <sub>2</sub> As <sub>2</sub> Superconductor via Hydride Route	16
<b>Hsieh, Caroline - Cell Biology</b> Characterizing Gait and Motor Impairments in an Inducible Mouse Model of Fragile X-Associated Tremor/Ataxia Syndrome (FXTAS)	64	<b>La, Jennifer - Biochemistry and Molecular Biology</b> Experimental Studies of the Psychological Consequences of Childhood Poverty	111
<b>Hsu, Emily - Biological Sciences</b> Deep Brain Stimulation Does Not Cause Additional Cell Death in Epileptic Rats	65	<b>Lardizabal, Erica - Human Development</b> Examining the Influence of Lunch Duration on Student Fruit Selection	61
<b>Hurzhyi, Anna - Neurobiology, Physiology and Behavior</b> Effects of Supplemental Milk Fat Globule Membrane (MFGM) on Genes Involved in Memory and Learning in Rat Pups	88	<b>Lau, Elaine - Biological Sciences</b> How to Change Delta Cells Into Beta Cells in Pancreatic Islets	84
<b>Ibraheem, Amenah - Biological Sciences</b> Regulation of Collagen and EGR1 Expression in Skeletal Muscle Following Resistance Exercise in Young and Aged Rats	85	<b>Le, Ann - Environmental Science and Management</b> Nitrogen Footprint Analysis of UC Davis	37
<b>Ip, Pak See - Human Development</b> Who Am I: Understanding How People Develop Racial Identities	55	<b>Lester, Nathan - Biological Systems Engineering</b> The Minimization of Ammonia Volatilization in Urine and Ammonia Distillate Samples Using Mineral Oil	25
<b>Ivey, Daniela - Chemical Engineering</b> Interleaflet Coupling Effects in Supported Lipid Membranes	23	<b>Lim, Kahui - Civil Engineering</b> The Minimization of Ammonia Volatilization in Urine and Ammonia Distillate Samples Using Mineral Oil	25
<b>Jacobs, Dana - Anthropology</b> Energy Expenditure of Stone Tool Knapping Oldowan and Acheulean Technologies	6	<b>Liu, Stephen - Biomedical Engineering</b> Performances Characterization of Substituted Spiroprans as Novel GSH Sensors Using Ultraviolet-Visible Spectrophotometry	28

<b>Lo, Ia - Anthropology</b> The Relationship Between Hmong Fashion and Hmong Women in the Central Valley	50	<b>Patel, Kishan - Neurobiology, Physiology and Behavior</b> The Roles of apo(a) Sizes and Phenotypes in Lp(a) Reductions With PCSK9 Inhibition	67
<b>Lo, Jamie - Pharmaceutical Chemistry</b> The Effects of Milk Osteopontin on Intestinal Development in Early Infancy	90	<b>Patkar, Rasika - Biochemistry and Molecular Biology</b> Effects of Sialic Acid on Inflammation	68
<b>Lu, Eileen - Neurobiology, Physiology and Behavior</b> A Diffusion Tensor Imaging Study on the Efficacy of Allopregnanolone in Improving the Corpus Callosum Microstructure of Carriers of Fragile X Premutation	112	<b>Pearson, Kira - Evolution, Ecology and Biodiversity</b> Noise Pollution and Interspecies Interactions	41
<b>Luke, Jonathan - Pharmaceutical Chemistry</b> Elucidating Cell Surface N-Glycosylation in Metabolically Active Tissues	13	<b>Pham, Dahlia - Aerospace Science and Engineering</b> Comparative Analysis of Full-Electric Vehicle Specifications in the US Market and Effects on Performance	20
<b>McMillen, Shasta - Clinical Nutrition</b> In Vitro & In Vivo Digestion of Bovine Milk Fat Globule Membranes	91	<b>Phan, Jason - Biotechnology</b> Inhibition of PDE5 by Sildenafil in Diabetic Cardiomyopathy	96
<b>Meany, Megan - Evolution, Ecology and Biodiversity</b> Oligosaccharide Composition of Tergal Glands in dsTra Mutant Female <i>Blattella germanica</i>	45	<b>Preciado, Cristian - Neurobiology, Physiology and Behavior</b> A Habituated Stepwise Approach to Diminishing Cybersickness in Virtual Reality	115
<b>Montgomery, Michael - Undeclared—Life Sciences</b> Through the Lens of the Fisher King: Hemingway's "Out of Season"	52	<b>Quintanilla-Zarinan, Leslie - Global Disease Biology</b> Interrogating Clinical Samples for Drug-Resistant Malaria Parasites With Targeted Deep Sequencing	72
<b>Morales, Alondra - Chicana/Chicano Studies</b> UC Davis as an Emerging Hispanic Serving Institution: The Tokenization of Brown Bodies	53	<b>Ramos Carranza, Perla - Human Development</b> Children's Problematic Eating Behaviors as a Mediator of the Relationship Between Controlling Feeding Practices of Caregivers and Children's Body Mass Index (BMI)	59
<b>Mumbleau, Madeline - Pharmaceutical Chemistry</b> Defining the Structure of a Major Groove Nucleobase Click Modification in RNA	19	<b>Reddy, Kalsha - Biochemistry and Molecular Biology</b> Ionic Mechanisms of Atrial Fibrillation	95
<b>Nakayama, Yuhei - Environmental Science and Management</b> Influence of Pinewood and Walnut Shell Biochar on the Dissolution of Copper Oxide Nanoparticle	39	<b>Riner, Jane - Animal Biology</b> Comparison of Ectoparasites in Urban and Exurban Populations of the San Joaquin Kit Fox ( <i>Vulpes macrotis mutica</i> )	43
<b>Natividad, Monica Lyn - Microbiology</b> Expanding Genetic Tools and Improving Tractability of the Parasite <i>Entamoeba histolytica</i>	74	<b>Rocha, Azucena - Global Disease Biology</b> The Role of Yolk in Sperm Positioning in <i>C. elegans</i>	79
<b>Nguyen, Anh - Microbiology</b> Rescuing Expression of an Epilepsy Gene: Activating <i>SCN1A</i> Expression in Human Cells Using dCas9-p300	81	<b>Romo Duardo, Carmen - Fiber and Polymer Science</b> Generating Photo-Induced Self-Cleaning Functions on Treated Cellulose	47
<b>Pandya, Archana - Biological Sciences</b> Immune Recognition and Suppression of Downy Mildew Effectors on the Plant Immune System	103	<b>Sachs, Natalia - Animal Science</b> Does What the Chickens Eat Affect the Chicken We Eat?	1
<b>Parnay, Angela - Environmental Science and Management</b> Miscommunication Between Regulators and Local Communities During the Aliso Canyon Methane Blowout	8	<b>Sahabandu, Natalie - Genetics and Genomics</b> Using CRISPR/Cas9 to Study the Trophocytosis Mechanism in <i>Entamoeba histolytica</i>	73

<b>Shabgahi, Venus - Psychology</b> The Neuromorphological Effects of Chronic Early Exposure to Oxytocin as a Treatment for Autism	107	<b>Thai, Anthony - Mechanical Engineering</b> EEG-Based Brain-Controlled Mobile Robots: Insights and Lessons	29
<b>Shahrivini, Bitra - Biochemistry and Molecular Biology</b> Characterization of the Dynamic Localization of Human CTP Synthetases	80	<b>Torres, Lisette - Psychology</b> Role of Cyclic AMP Response Element Binding Protein (CREB) Binding Protein (CBP) in the Induction of Maternal Behavior in Female Mice	117
<b>Shamlian, James - Anthropology</b> Morphometrics of Angulate Tortoises	9	<b>Tran, Nhi - Biochemistry and Molecular Biology</b> User-Friendly Graphical User Interface to Assess the Instability and Sensitivity of Cardiac Electrical Activities	93
<b>Shehadeh, Ayman - Biochemistry and Molecular Biology</b> Generation of Human-Induced Pluripotent Stem Cells From CD34+ Cord Blood Cells by a Non-Integrating RNA Sendai Virus Vector Under Xeno-Free Conditions	71	<b>Tran, Oanh - Biochemistry and Molecular Biology</b> User-Friendly Graphical User Interface to Assess the Instability and Sensitivity of Cardiac Electrical Activities	93
<b>Shi, Michelle - Biochemistry and Molecular Biology</b> Neural Correlates of Compassion and Empathy	116	<b>Tran, Randall - Biochemistry and Molecular Biology</b> Effects of Naphthalene Inhalation on "Humanized" Transgenic Mice	12
<b>Simmons, Gabe - Mechanical Engineering</b> EEG-Based Brain-Controlled Mobile Robots: Insights and Lessons	29	<b>Trinh, Shannon - Psychology</b> Inhibitory Control in Internationally Adopted Children	118
<b>Singh, Alexis - Psychology</b> The Long-Term Effects of Intranasal Vasopressin on Social and Aggressive Behaviors in Prairie Voles ( <i>Microtus ochrogaster</i> )	108	<b>Van, Richard - Biochemistry and Molecular Biology</b> How to Change Delta Cells Into Beta Cells in Pancreatic Islets	84
<b>Skots, Mariya - Biological Sciences</b> Differentiating Non-Viable From Viable Cells in Stone Fruit Washwater Through the Use of Propidium Monoazide (PMA)	104	<b>van der Zalm, Kyra - Animal Science</b> The Perception of Pain Associated With Injections in Dairy Cattle	3
<b>Smith, Kevin - Cell Biology</b> Testing Intron Sequences That Affect Gene Expression	82	<b>Velazquez, Marysol - Biochemistry and Molecular Biology</b> <i>E. coli</i> CTP Synthetase Exhibits Specificity in Substrate Inhibition	83
<b>Steinberg, Danielle - Anthropology</b> Monkeying Around: Comparing Play Behavior in Relation to Predation Risk in Sympatric Olive Baboons ( <i>Papio anubis</i> ) and Vervet Monkeys ( <i>Chlorocebus pygerythrus</i> )	10	<b>Vieira, Savannah - Animal Biology</b> The Effect of Iron Type on Healing of Hot-Iron Disbudding Wounds in Dairy Calves	2
<b>Stokes, Patricia - Clinical Nutrition</b> Neonatal EPEC-Induced Changes in the Microbiota-Gut-Brain Axis	14	<b>Vinson, Yasmeeen - Physics</b> Thermal and Tensile Strength Testing of Thermally-Conductive Adhesives and Carbon Foam	31
<b>Suk, Rachel - Psychology</b> Effects of Parental Scaffolding on Infant Play	114	<b>Viruet, Jeannine - Psychology</b> Effects of Social Interaction on Infant Exploratory Behavior	119
<b>Sun, Manying - Neurobiology, Physiology and Behavior</b>  Measuring With Behavior How the Brain Commits to a Choice in a Simple Decision Task	66	<b>Vo, Linda - Managerial Economics</b> The Impact of Social Norm Comparisons on Residential Water Consumption	21
<b>Tan, Xiuping - Computer Science</b> Examining the Association Between Sex and Dietary Diversity in Kenyan Toddlers	92	<b>Wahaj, Syed - Biochemistry and Molecular Biology</b> User-Friendly Graphical User Interface to Assess the Instability and Sensitivity of Cardiac Electrical Activities	93

<b>Wang, Weizhou - Managerial Economics</b>	<b>22</b>
Distress and Recovery of Technology Companies After the Dot.com Bust	
<b>White-Dobbs, Jade - Entomology</b>	<b>42</b>
RNA Interference-Mediated Knockdown of Bla G 4, an Asthma-Related Allergen, in Male <i>Blattella germanica</i> (L.) (Dictyoptera, Blattellidae)	
<b>Wolfe-Polgar, Moses - Biochemistry and Molecular Biology</b>	<b>86</b>
Adaptations of Skeletal Muscle Extracellular Matrix in Response to Acute Resistance Exercise and the Role of the Mechanistic Target of Rapamycin (mTOR)	
<b>Wong, Joyce - Environmental Science and Management</b>	<b>35</b>
Heavy Metal Sequestration by Douglas Firs on Serpentine Soil	
<b>Wu, Robert - Chemical Engineering</b>	<b>32</b>
Thermodynamics of Lipid Monolayers	
<b>Wu, Susan - Biological Sciences</b>	<b>98</b>
Monitoring Subcellular Localization of Effectors Delivered From <i>Pseudomonas</i> Into Plant Cells	
<b>Xiao, Zhiyu - Biomedical Engineering</b>	<b>33</b>
High-Resolution Imaging of Cell and Molecular Interactions by Reflection Interference Contrast Microscopy	
<b>Yan, Jia - Microbiology</b>	<b>100</b>
The Effects of Alternate Wet Dry Irrigation on the Microbial Communities Associated With Rice Roots	
<b>Yang, Yiyang - Biological Sciences</b>	<b>101</b>
Understanding the Role of NPR1 in Stromule Induction During Plant Innate Immunity	
<b>Yeh, Albert - Electrical Engineering</b>	<b>29</b>
EEG-Based Brain-Controlled Mobile Robots: Insights and Lessons	
<b>Yi, Chenxiong - Mechanical Engineering</b>	<b>29</b>
EEG-Based Brain-Controlled Mobile Robots: Insights and Lessons	
<b>Zhang, Zhichao - Food Science</b>	<b>48</b>
Validation of a One-Step Method for Extracting Fatty Acids From Food Samples	
<b>Zhou, Jamie - Clinical Nutrition</b>	<b>14</b>
Neonatal EPEC-Induced Changes in the Microbiota-Gut-Brain Axis	
<b>Zhu, Danjie - Textiles and Clothing</b>	<b>49</b>
Development of Non-Fluorocarbon Durable Water Repellent Cotton Fabrics	