

2025 Central California Research Symposium Event Schedule

POSTER PRESENTATIONS

Resnick Student Union, Ruiz Ballroom

Session I: 8:15am – 10:00am (Ballroom)

Poster 1 : Tigran Khachatryan – “*Differential Effects of Musical Genres on Brain Wave Changes and Mood Dynamics: An EEG and Behavioral Analysis*”

Poster 2 : Imaandeeep Bual – “*Investigating pH change associated with polylactic acid degradation following nitrogen plasma modification*”

Additional Authors: Imaandeeep Bual and Morgan J. Hawker, PhD

Poster 3 : Donnel Gray – “*Evaluation of Corn Supplementation in a Fixed-Formula Diet for Sheep*”

Poster 4 : Sopanha Peo – “*Chalcones Exposure Does Not Trigger ROS Production in Caenorhabditis elegans*”

Additional Authors: Zoie Gavel, Aminah Cevik, Keyaan Rahman, and Ian Eirich

Poster 5 : Raul Centeno – “*Temperature Dependent MD Simulation Study of Antifreeze Glycoprotein-8 (Boreogadus saida) Hydration Layer Properties*”

Additional Authors: Ed Lau, Krish Krishnan

Poster 6 : Laylani Do – “*The Effect of Gratitude on Perceptions of Personality*”

Poster 7 : Cesar Aranibar – “*Impactful Sustainable Transportation Summer Camps for Middle School Students*”

Additional Authors: Anahi Labra

Poster 8 : Joseph Thiers – “*Homeownership vs. Renting: Tracking the US Housing Market Shift*”

Additional Authors: Carlos Novela

Poster 9 : Lina Rodriguez – “*Influences of Intermediate Familiar Tobacco Usage and History on Young Latinx College Students in the Central Valley of California*”

Poster 10 : Kathryn Sierra – “*A quantitative measurement of uncertainty in illness in caregivers in a pediatric concurrent care population*”

Poster 11 : Hannah Mettee - “*Reinforcement-learning-guided Automated Design of MRI-based Dopamine Sensors*”

Additional Authors: Zulaikha Ali, Hannah Mettee, Yunfei Zhang, Yuna Ha, Joshua Hall, Avery Ramirez, Samantha Luna-Cavallini, Shuo Wu, He Wei

Poster 12 : Celine Irasusta - “*An Analysis of Zymo and Qiagen’s DNA Extraction Kit Protocols*”

Poster 13 : Batool Abdelruhman - “*Expression and Purification of MUC16 Antibody Fragments in Escherichia coli*”

Additional Authors: Batool Abdelruhman, Maram Salman, Cory L. Brooks, Ph.D

Poster 14 : Truth Aden - “*Correlational Study on Autism Experience and Interpretation*”

Poster 15 : Bryce Deniz - “*Revolutionizing Diabetes Care: Innovations in Insulin Delivery, Glucose Monitoring, and AI-Driven Management*”

Additional Authors: Charita Gedela, Alan Huynh, Jade Lam, Victoria Osorio, Subeg Singh,

Poster 16 : Susana McDonell - “*The Impact of Social Determinants of Health on Women's Utilization of Breast Cancer Preventative Screening Tools*”

Additional Authors: Eileen Jimenez

Poster 17 : Caleb Bahne - “*End-Effector Design: Precision Citrus Harvesting with Controlled Stem Length*”

Additional Authors: Juan Espinoza Jr., Brendan Chinnock

Poster 18 : Vivian Nguyen - “*STEM Belongs to Everyone: A Meta-Analysis of Culturally Relevant, Responsive, and Sustaining Pedagogies in Higher Education*”

Additional Authors: Alexa Valdez, Allison Vang, Danielle Vu, Emily M. Walter

Poster 19 : Aya Shin - “ A QUALITATIVE STUDY exploring the barriers for diabetes self-management by community members utilizing the college Mobile Health Unit.”

Poster 20 : Rachel Castro Orellana - “ Shades of Engagement: The Light and Dark Triad in Social Media Use ”

Additional Authors: Martin Shapiro

Poster 21 : Joe Martinez - “Identifying a correlation of the modality of translation communication services for the transition to a do not resuscitate/ comfort measures code status for Spanish speaking adult patients and their families”

Poster 22 : Anahy Ortuno - “Contraceptive Decision-Making Among Young College Women in California: Results of a Quantitative Study”

Poster 23 : Cristiana Gonzalez - “Investigating the Role of Tumor Microenvironment in Drug Resistance: Implications for Targeted Therapy in Breast Cancer”

Additional Authors: Diya Bhandari, Kuljit Dhami, Nicole Njike-Bobga, Josue Urias, Allen Keshishian

Poster 24 : Matthew Hernandez - “Evaluating pyrethroid resistance in the invasive mosquito, *Aedes aegypti*, in Madera, CA”

Additional Authors: Matthew Hernandez, Abraham Velazquez, M.S., and Brian Tsukimura, Ph.D.

Poster 25 : Analisa Padilla - “Perceptions of Access and Use of Tobacco Products in Latine College Students. Exploring the Role of Critical Consciousness”

Additional Authors: Rosa I. Toro, PhD

Poster 26 : Eyiuche Dunu - “Exploring Changes in the food Environment of Immigrant Nigerians in Fresno County and their impact on Diabetic Diet”

Poster 27 : Arlet Vergara - “Computational modeling and structural analysis to elucidate key amino acids affecting Decoration (Dec) Protein Quaternary Structure ”

Additional Authors: Parth Tare

Poster 28 : Cristian De La Torre - *“An exploration of youth perceptions of STEM activities in Mobile Making”*

Additional Authors: Cristian De La Torre, Dr. Alexandra Hansen

Poster 29 : Dhruval Patel - *“How Radon Influence Housing Prices”*

Additional Authors: Dhruval Patel, Andres Jauregui

Poster 30 : Chong Vue - *“Translated Medication Labels and Their Perceived Effectiveness in the Elderly Hmong Population”*

Poster 31 : Samantha Torres - *“Assessing Compassion Fatigue and Compassion Satisfaction in Oncology Nursing Staff: A Cross-Sectional Survey”*

Session II: 8:15am – 10:00am (Ballroom)

Poster 32 : Prabhat Rijal – “Using Big Data to Uncover Urban Travel Patterns: A Case Study on Fresno and Clovis Cities”

Additional Authors: Saugat Paudel, Aly M. Tawfik, Ph.D.

Poster 33 : Martin Escarcega – “Exploring the Knowledge of Exposure to Pathogens with Military Service Members: A Qualitative Analysis”

*Additional Authors: Kathleen Rindahl, DNP, FNP-C
Associate Professor
Chair/Director, School of Nursing*

Poster 34 : Francine Soliz – “Food Insecurity and the Implications of Flavoring and Perception on Tobacco and Nicotine Use”

Poster 35 : Michael Hollar – “Evaluating the Impact of the Fresno State RISE Program Through Survey Analysis”

Additional Authors: Ayuba Abaka, Victor Rivera

Poster 36 : Linda Xiong – “Understanding Patient Experiences in a Motivational Interviewing Intervention to Improve Lifestyle Among Hmong Individuals with Type 2 Diabetes Mellitus”

Poster 37 : Jerome Martizano – “Transformative Location Service Platforms: Comparing Geospatial Data, APIs, and Features and Application”

Additional Authors: Ritvik Gaur; Pratham Aggarwal; Saugat Paudal; Amneek Chalotra; Dr. Aly Tawfik

Poster 38 : Daniel Hidalgo – “Chemical Profiling and Anti-Proliferative Effects of Central California-Grown Hairy Fleabane on Prostate Cancer Cells”

Additional Authors: Daniel Hidalgo¹, Eva Chen¹, Danya Sumrein¹, Guanglin Chen¹, Krish Krishnan¹, Anil Shrestha², and Qiao-Hong Chen¹

Poster 39 : Vianey Castillo – “Do carnivorous plants have more than one type of trap? Comparing two species of bladderwort”

Poster 40 : Eric Rivera - “Reliability of Static Random Access Memory Bit Cells at Varying Temperatures”

Poster 41 : Digiovanni Gutierrez - “Communicating The Risk of Postoperative Nausea and Vomiting ”

Poster 42 : Melody Kerby - “Behavioral consequences of knocking down mGluR5, a depression-associated gene, in the Drosophila model”

Additional Authors: Melody Kerby, Cynthia Hsu

Poster 43 : Careen Derkalousdian - “Investigating the Effects of Oxygen Concentration on the Regulation of Glucose Fuel Metabolism by Bcl-xL in Yeast”

Additional Authors: Julie-Anne Woods, Dr. Laurent Dejean

Poster 44 : Robynn Huber - “The Influence of Managerial Literacy on Dental Practice Performance”

Poster 45 : Nicholas Brockie - “Modeling the Ground State Structures of Lambda-Cyhalothrin and Cinerin II”

Additional Authors: Amuldeep Bawa

Poster 46 : Jessica Lopez-Jimenez - “Former Foster Youth’s Pathways to Graduate Success and Higher: A Phenomenological Study ”

Poster 47 : Samantha Singh - “Exploring the Gut Microbiome in Type 1 Diabetes: Integrating Technology for Improved Diabetes Management”

Additional Authors: Garapati Srikar, Hammond Crystal, Markarian Jenna, Ruiz Giovanni

Poster 48 : Mark Gomez - “A Retrospective Correlation Study of the Use of Electronic Distraction Meia Via an Interactive Tablet in Pediatric Patients Undergoing Same-Day Ears, Nose, and Throat (ENT) Procedures and Their Relationship on Post-Operative Emergence Delirium in a Pediatric Population”

Poster 49 : Xavier Martinez - “The Impact of Energy Drink Consumption on Physiology, Cognitive Function, and Decision-Making”

Additional Authors: Richard Campos-Luna

Poster 50 : Macyn Topoozian - **“How Parental Involvement and Parenting Styles can Affect a Child’s Education”**

Poster 51 : Eliana Kahn - **“Amide Temperature Coefficients for Structural Insights to the Kalata B1 Protein”**

Additional Authors: Samantha L. Gerlach, Krish Krishnan

Poster 52 : Martin Montes - **“Exploring Barriers in Tobacco Cessation Among Latinx College Students: Insights into Cultural Relevancy and Appropriateness”**

Additional Authors: Rosa I. Toro, Ph.D.

Poster 53 : Maria Del Carmen Reynoso Rivas - **“NMR metabolomics as a complementary tool to brix-acid test for navel orange quality control of long-term cold storage”**

Additional Authors: Keeton H. Montgomery, Aya Elhabashy, Gurreet Bar, and Krish Krishnan

Poster 54 : Joshua Rashe - **“Hispanic Stress Mediating Between Discrimination and Nicotine Usage”**

Additional Authors: Rosa I. Toro

Poster 55 : Brandon Rudd - **“Sleeping Rough: A Mixed-Methods Investigation into Sleep Disturbances of People Experiencing Homelessness”**

Poster 56 : Daniel Mirzaeian - **“Evaluating the binding characteristics between MUC 16 and specific monoclonal antibodies ”**

Poster 57 : Alessandro Toledo - **“Evaluating the Forecasting Capabilities of Artificial Neural Networks and Multiple Predictors for Water Demand”**

Additional Authors: Dr. Jorge Pesantez

Poster 58 : Harmeet Singh - **“Preserving the Past: Examining Biological Collections to assess the impact of Best Practices on Specimen Preservation”**

*Additional Authors: Author(s): Timothy Mckay, Harmeet Singh
Coauthor(s): Chahat Asi, Ameer Kaur, Mahrukh Roshan*

Poster 59 : Asia DeMarre - *“The effects of salinity on reproduction in the anomuran crab *Petrolisthes cinctipes*”*

Poster 60 : Catherine Nacar - *“In the Hispanic (Mexican and Latino descent) type 2 diabetes patient population seen at United Health Center clinics, how does the addition of glucagon-like peptide 1 receptor agonist (GLP-1 RA) improve their Hgb A1C levels after 6 months of GLP-1 RA treatment?”*

Poster 61 : Ivan Soto - *“Blue light promotes sleep independently of photoreceptors through oxidative stress ”*

Additional Authors: Gauri Paul, Lesly N. Soriano, Angelina S. Seang, Romeo Aiyabei, Landon J. Chipps, Harsh Bathla, Antonio Lopez, Cynthia T. Hsu

Session III: 10:15am – 12:00pm (Ballroom)

Poster 62 : Youssef Ali – “*Nationwide Transit Accessibility Analysis Using Real-Life Data*”

Additional Authors: Pratham Aggarwal, Kent Klann, Mathias Duque, Aly Mahmoud, Dr. Aly Tawfik

Poster 63 : Chelsea Castillo Najera – “*Impact of environmental enrichments on litter moisture*”

Additional Authors: Chelsea Castillo Najera, Katy J. Tarrant

Poster 64 : Mariah Sadeddin – “*Determination of H-atom transfer rate constants of phenolic antioxidants using 19F NMR peroxy radical clock*”

Poster 65 : Sharon Stephanie – “*Characterization of endophytic microbiome in Punica granatum arillus*”

Additional Authors: Dr. Francine Arroyo, and Dr. Alejandro Calderón-Urrea

Poster 66 : Carlos Vargas – “*Empowering Parents: Enhancing Communication for Nonverbal Children with Autism Through AAC Training*”

Poster 67 : Audrieanna Hernandez – “*Surveillance of youth physical activity and physical education in California: A case study design*”

Additional Authors: Daisy Thao

Poster 68 : Nari Chang – “*A suction-feeding carnivorous plant – studying how trap morphology affects performance by using a mechanical model*”

Additional Authors: Ulrike Müller, PhD., Otto Berg, PhD.

Poster 69 : Yousef Jibril – “*A Real-Life-Data-Based Transit Accessibility and Equity Analysis: A Case Study for Fresno City*”

Additional Authors: Pratham Aggarwal, Kent Klann, Amneek Chalotra, Ritvik Gaur, Saugat Paudal, Dr. Aly Tawfik

Poster 70 : Juliann Vang – “*Professional Skepticism: the Impact of AI Overreliance in Accounting Students*”

Additional Authors: Dr. Tatyana S. Ryabova, CPA

Poster 71 : Caleb Benson - “*Amateur Adult, House Husband, or Very Late Teenager? Lay Theories of Emerging Adulthood Among Rural- and Urban-Reared Thai Youth*”

Additional Authors: Kate C. Zamora, Patricia Yang, Savannah G. Castillo, Natalia Pilavian, Barbara P. Yang, Melissa Castellanos, Victoria Brazier, & Jessica McKenzie

Poster 72 : Eduardo González - “*Housing Policy Needs for Farmworkers in Fresno County*”

Poster 73 : Amaan Ahmed - “*A Deep Learning Approach to Real-Time ASL Translation*”

Additional Authors: L. Villanueva

Poster 74 : Ruth Beltran - “*A Survey-Based Investigation into the Link Between Caregiver IBS and Pediatric Constipation in Central Valley: The Role of Social Determinants of Health.*”

Additional Authors: Ruth Beltran, Ahana Chakraborty, Aicha Naouai, Elona Bebla, Donna Badr, Maryam Khan, Nadia Mohebati, Prabroop Sandhu, Sreenivasulu Pattipati, PhD, Mohammad Rahman PhD, Alex Wang, MD

Poster 75 : Luis Sanchez - “*Cultura y Éxito: Cultural Influence and Representation Shape Latino Student Success*”

Poster 76 : Gurmannot Chalotra - “*Development of Dehydroabietylamine Derivatives as Potential Androgen Receptor N-Terminal Domain Antagonists*”

Additional Authors: Gurmannot Chalotra, Dennis Ashong, Keyara Piri, Guanglin Chen, and Qiao-Hong Chen

Poster 77 : Dilpreet Sekhon - “*Understanding Community Perceptions of Local Public Health Departments in Central California*”

Additional Authors: Amber Shaver, M.S., Dilpreet Sekhon, MPH, Japjeet Uppal, MPPA, Alyssa Kennett, MPH, MIA

Poster 78 : Aaron Joshua Asparin - “Automatic Optimization of MRI-based Calcium Sensors via Reinforcement Learning”

Additional Authors: Zulaikha Ali, Aaron Asparin, Diya Taha, Khaldoon Sarwar, Deepika Bhanot, Xianzhi Li, Alexis Kim, Shuo Wu, He Wei

where Zulaikha Ali and Aaron Asparin contributed equally and Shuo Wu and He Wei are the corresponding authors

Poster 79 : Dominique Nunez Garcia - “Advancing Civil Structure Inspection through Virtual Reality Interface Design”

Additional Authors: Harnoor Tut, Daniel Ornelas

Poster 80 : Grant Provencio - “Investigating the role Bcl-2 family proteins in the regulation of carbohydrate metabolism”

Additional Authors: Lilian Chavez, Mike Garibaldi, Colin Baldis, Laurent Dejean

Poster 81 : Raven Alvarez - “Feminist Belonging Analysis”

Poster 82 : Jesus Toro - “Does thermal time influence nitrogen accumulation patterns in almond fruit?”

Poster 83 : Richard Campos-Luna - “The Impact of Energy Drink Consumption on Physiology, Cognitive Function, and Decision-Making”

Additional Authors: Martin Shapiro, Xavier Martinez, Richard Campos-Luna

Poster 85 : Yinglak Jittakoat - “The Power of Storytelling: Designing Extracurricular Activities to Inspire Career Dreams in Elementary and Middle School Students in California Central Valley ”

Poster 86 : Celia Arzola - “Re-evaluating the trap morphology of carnivorous bladderwort plants”

Additional Authors: Celia V Arzola, Lukyon W Mendrin, Luz Gonzalez Ponce, Otto Berg, Ulrike K Müller

Session IV: 10:15am - 12:00pm (Ballroom)

Poster 87 : Aidan Brown - “*Enhancing Enzymatic Degradation Resistance of Hyaluronic Acid via Pentane-based Plasma Enhanced Chemical Vapor Deposition*”

Additional Authors: Morgan J. Hawker

Poster 88 : Gabriela Lemus Lemus - “*Impacts of Dual Immersion Programs*”

Additional Authors: Hyeri Hong

Poster 89 : Brandon Swerdlow - “*Advancing Undergraduate STEM Learning & Engagement Through SolidWorks Simulations*”

Additional Authors: Kai De La Cruz

Poster 90 : Jacob Markarian - “*The Effects of Stereotypes of Aging on Elder Care Decisions*”

Additional Authors: Debbie Ma

Poster 91 : Annika Garza - “*AI-Generated vs. Human-Generated Social Media Content's Effect on Purchase Intention*”

Poster 92 : Yessica Guzman - “*Exploring the Role of Cultural Competence in Shaping Pre-service Teachers' Beliefs about Bilingual Language Development and Instruction*”

Poster 93 : Rachel Mancebo - “*Examining the sustainable agriculture values and demographic characteristics of Gen Z undergraduates in an agriculture college*”

Poster 94 : Danya Sumrein - “*Bioassay guided natural product isolation of a new coumarin compound in ethyl acetate extract Erigeron canadensis*”

Additional Authors: Danya F. Sumrein, Eva Y. Chen, Krish Krishnan, Abbas Dadawalla, Guanlin Chen, Saeed Amer, Denis Ashong, Anil Shrestha, Qiao-Hong Chen

Poster 95 : Catherine Weber - “*Reactionary Rhetoric in Video Game Centric Online Communities and How it Affects LGBT+ People*”

Poster 96 : Jacqueline Aguilar - “*Synthesis and evaluation of 2-pyridyl thioester as reactive 19F-tags for identification and quantification of amino acids*”

Additional Authors: Aaron S. Cano

Poster 97 : David Ross - “*Impact of Natural and Artificial Sweeteners on the Human Oral Microbiome*”

Poster 98 : Hannah Blackmon - “*Antifungal Drug Discovery Through the Synthesis of Azole-Containing Compounds*”

Additional Authors: Khushleen Khakh, Evan Chang, Alija Mujic, Kalyani Maitra, Santanu Maitra

Poster 99 : Sahar Ahmadi - “*Behavioral and Locomotion Analysis of Chalcone 25-Resistant C. elegans Mutants Using Worm Tracker*”

Additional Authors: Uriel Pascencia

Poster 100 : Jennifer Valdez Herrera - “*Evaluation of San Joaquin Valley Common Chickweed [Stellaria media (L.) Vill.] Populations for Resistance to ALS-Inhibitors.* ”

Additional Authors: Katherine Waselkov, Nicholas E. Clark, Anil Shrestha

Poster 101 : Malik Evans - “*Bridging the Gap: A Premed Pipeline Program to Empower San Joaquin Valley Community College Students* ”

Additional Authors: Itzel Ferrer, Lauren Falcon, Nicki Garcia

Poster 102 : Olga Angela Furtado - “*The role of Glu54 in keeping cAMP receptor protein inactive in the absence of the ligand cAMP*”

Additional Authors: Edgar Gutierrez-Magana, Manvinder Kaur, Arcana O'Regan, Elio Viveros, Hwan Youn

Poster 103 : Paige Ounesavath - “*Association of MC4R Gene Variants with Basal Metabolic Rate, Liver Function, and Lipid Profile in Overweight and Obese Students at California State University, Fresno*”

Additional Authors: Shabnam Pooya, PhD, Lisa Herzig, PhD, RDN, CDCES, Srinivasa Konduru, PhD, Serhat Asci, PhD, Amir H Fathi, MD, FACS, Marina Roytman, MD, Abbas Rad, Paige Ounesavath, Casey Qualls, Mallory Sutherland, Hannah Cernansky, McKenzie Felsted, Zoie Gavel

Poster 104 : Andrei Catalan - **“Study and Analysis of a Cost-Effective-Six-Degree-of-Freedom Robotic Arm in Autonomous Harvesting”**

Poster 105 : Maram Salman - **“Expression and Purification of MUC16 Antibody Fragments in E.coli Poster presentation”**

Poster 106 : Angela Maldonado Alfaro - **“Data-Driven Regression Tree Model for Predicting Residential Water Demand Using Property Characteristics”**

Additional Authors: Carly Boyer

Poster 107 : Amaya Devore - **“Empowering Future STEM Professionals: The Impact of the Mobile Making Program on College Students' Interest, Confidence, and 21st-Century Skills”**

Additional Authors: Viridiana Rivera Flores, Dr. Hansen, Dr. Shin

Poster 109 : Margaret Mullooly - **“Exploring the design space of peptide-mediated reversible nanoparticle aggregation”**

Additional Authors: Robert Ramji, Benjamin Lam, Jesse V. Jokerst, Tod A. Pascal, Kristina D. Closser

Poster 110 : Saugat Paudel - **“A Real-Life-Data-Based Tool for Analyzing Transportation Inequities in Access to Healthcare”**

Additional Authors: Pratham Aggrawal, Ritvik Gaur, Amneek Chalhotra, Kent Klann, Aly M. Tawfik

Poster 111 : Amneek Chalotra - **“AI Model and Data Analytics for Estimating Environmental Footprint Parameters for Automobiles in the US”**

Additional Authors: Ritvik Gaur ;Amneek Chalotra; Aly Tawfik

Session V: 1:15pm - 3:00pm (Ballroom)

Poster 112 : Brianna Martinez - “A Meta-Analysis of Racial and Ethnic Differences in Impostor Phenomenon in College Students”

Additional Authors: Brianna Martinez, Dr. Paul Price

Poster 113 : Jocelyn Velazquez - “Developmental expression of period mediates sleep-promoting effects of red light in adult flies”

Additional Authors: Lesly N. Soriano, Ivan Soto, Cynthia T. Hsu

Poster 114 : Patricia Yang - “Gender and Sexuality in Southeast Asia: Indigenous Perspectives and the Influence of Social Media”

Additional Authors: Jessica McKenzie

Poster 115 : Phoebe Bloomfield - “A Scenario-Based Approach for Efficient Water Distribution System Rehabilitation”

Poster 116 : Roohaniat Kaur Sidhu - “Methods for PLA Surface Smoothing: A Comparison between Vapor and Immersion Smoothing with Organic Solvents. ”

Additional Authors: Roohaniat Kaur Sidhu, Nicholas Fanopoulos, Jason Hout

Poster 117 : Yerali Lopez Torres - “Interactive Effects of Technology and Human Capital on Rural Economic Development: A Case Study of California’s Rural Counties ”

Additional Authors: Dr. Qin Fan

Poster 118 : Johnathan Diaz - “Improving Anticancer Potency of Indazole Biaryl Compound with Covalent Warhead”

Additional Authors: Dennis Ashong, Shaur Heng Chong, Paulina Vergara, Esveidy Ocegüera, Johnathan Diaz, Mekai Barrientez, Melina Renteria, Eakmjyot Bual, David Nguyen, Dayeon Moon and Qiao-Hong Chen.

Poster 119 : Adam Solis - “ Educational Inequities For Special Education Middle School Students: Educating Non-Verbal/ Non- English Speaking Students In The Central Valley”

Poster 120 : Pankti Chavda - “*Taxonomic and Geographic Analysis of *Amaranthus wrightii* and *Amaranthus torreyi**”

Additional Authors: Danya F. Sumrein, Luis Figueroa Hernandez, Andrea C. Laine, Dr. Katherine Waselkov

Poster 121 : Jose Millan - “*Induction, Identification and Isolation of Chalcone Mutants in *Caenorhabditis elegans**”

Additional Authors: Martin Flores, Sahar Ahmadi, Ayuba Abaka, Arwa Alsubhi, Alejandro Calderon-Urrea

Poster 123 : Nelsy L. Montes-Romero - “*Improving Health Literacy in Monterey County: Inter-rater Reliability Analysis Using a Revised CLAS Standards Rubric*”

Poster 124 : Fabiola Corona - “*A Deep Dive into Fish Collections: Taxonomy, Collection Size, and Local vs. National Representation*”

Additional Authors: Harmeet Singh

Poster 125 : Mallory Sutherland - “*Consumption of Fresh Produce and its Correlation to Food Insecurity in the Central Valley*”

Poster 126 : Steven Archambault - “*Is it eco-friendly and safe? Investigation of consumers’ perceived ecological benefits, contagion beliefs, and safety concerns of hydroponic, aquaponic, and organic produce.*”

Additional Authors: Archambault, Steven; Xie, Yi; Phillips, Jon.

Poster 127 : Visotheara Var - “*Accessibility: The Affordable Prosthetic Arm*”

Additional Authors: Visotheara Var, Jason Yang, Harman Kandola, Vikranth Singh, Miguel Mendoza, Anthony Nichols Jr.

Poster 128 : Amuldeep Bawa - “*Comparative Analysis of Ground-State Energies in Pyrethrins and Pyrethroids*”

Poster 129 : Jaden Luna - “*An Agent Based Model for Wildfire Trajectories Analysis*”

Poster 130 : Dayton Klopmanbaerselman - “*Documenting a Local Zoological Collection: Impacts of Past Mistakes on Collection Quality*”

Additional Authors: Rawan Almufleyhi, Daniel Mendoza, Anthony Martinez-Morales

Poster 131 : Shafiq Muhammad - “*How can Fresno County retain its medical residents bound for rural practice?*”

Poster 132 : Aaron Millwee - “*Enhancing UAV Capabilities for Soil Penetration through the Utilization of a Quadrotor UAV*”

Additional Authors: Aaron Millwee, Brian Obichere, Brianna Vidrio

Poster 133 : Harmanjot Brar - “*The role of Arg185 in the DNA binding of cAMP receptor protein, a model transcription factor*”

Additional Authors: Harmanjot Brar, Alex Macias, Jonathan Gerena, Gurleen Kaur, Hwan Youn

Poster 134 : Deevyam Malik - “*Modulating the Hydrophobic Recovery Rate of Polyurethane After Ar/O₂ Plasma Exposure*”

Additional Authors: Morgan J. Hawker PhD

Poster 135 : Melissa Jauregui - “*Understanding Bladderwort (Utricularia) traps - The role of morphology in suction feeding*”

Additional Authors: Melissa Jauregui, Ulrike Müller, PhD, Otto Berg, PhD.

Poster 136 : Andres Ramos - “*A Real-Life-Data-Based Temporal Analysis of Transit Accessibility in Fresno City*”

Additional Authors: Pratham Aggarwal, Kent Klann, Amneek Chalotra, Ritvik Gaur, Saugat Paudal, Dr. Aly Tawfik

Session VI: 1:15pm - 3:00pm (Ballroom)

Poster 137 : Pratham Aggarwal - “Exploring 14 Years of Fresno Traffic Patterns: A Data-Driven Study Utilizing Machine Learning Models”

Poster 138 : Jorge Aguilar-Cisneros - “Calibration of Fluorine-tagged Allylbenzene Peroxyl Radical Clock in Chlorobenzene”

Poster 139 : Luay Al Aghbari - “Comparative Analysis of Deep Neural Networks to Forecast Water Demand”

Poster 140 : Chelsea Lim - “Less solvent, more NMR skills: Development of green experiments for organic chemistry laboratory courses”

Additional Authors: Felix Breine

Poster 141 : Aidan Leonard - “Synthesis & Spectral Characterization of Odorants for Database Construction”

Additional Authors: David Carillo, Marco Espinoza

Poster 142 : Antonio Lopez - “Role of neuronal CACNA2D1 homologues in sleep, motor control, and sucrose preference in *Drosophila melanogaster*”

Additional Authors: Alison Heu, Cynthia T. Hsu

Poster 143 : Daisy Thao - “Comparing MVPA Outcomes Using two Heart Rate Systems”

Additional Authors: Audrieanna Hernandez

Poster 144 : Katherine Nathania - “Going All the Whey: Feasibility Study of Beer Production using Acid Whey”

Additional Authors: Paulina Freire, Erin Dormedy, William Whalen, Carmen Licon

Poster 145 : Terone Dunbar - “EVALUATION OF PUTATIVE GENES INVOLVED IN TALL CELL PAPILLARY THYROID CANCER”

Poster 146 : Nicolas Macias - “Accessibility: Affordable Prosthetic Arm”

Additional Authors: Chaeson Sears II, Ethan Fernandez

Poster 147 : Crystal Xiong - “**Changing Moralities in a Changing World? Evidence from a Longitudinal, Multi-Sited Study in Southeast Asia**”

Additional Authors: Crystal Xiong, Brianna Zack, Patricia Yang, Briana Petrille, Jessica Perez, Crystal Moua, Rachel Axt, Jessica McKenzie

Poster 148 : Yue Yang - “**Pipelined Add Multiplier Array**”

Additional Authors: Yue Yang, Eric Rivera, Miguel Ledesma

Poster 149 : Victoria De La Torre - “**Effects of a Stress Reappraisal Intervention on Academic Performance: Replication of Jamieson et al. (2022) in a College Research Methods Class**”

Additional Authors: Paul Price, Ph.D

Poster 150 : Alexis Perez - “**Assessing the Safety Impacts of Roundabouts in California and the San Joaquin Valley**”

Additional Authors: Alexis Perez, Dr. Aly Tawfik (Ph.D), Dr. Samer Sarofim (Ph.D), Jerome Martizano

Poster 151 : Angelina Flores - “**The Educational Journeys of Marginalized Students of Color: Navigating Relationships, Academics, and Activism**”

Poster 152 : Samantha Caldera - “**Investigating Youth Interest & Confidence in STEM through the Mobile Making Afterschool Program at Fresno State**”

Additional Authors: Samantha Caldera, Dr. Alexandria Hansen

Poster 153 : Daniella Garcia - “**“I Do Not Think I Can Teach, “How To Use a Framing Hammer?”**”

Additional Authors: Samuel Rodriguez Ed.D

Poster 154 : Gauri Paul - “**Blue Light Promotes Sleep Through Cytosolic but not Vision-Forming Receptors**”

Additional Authors: Ivan Soto, Lesly N. Soriano, Angelina S. Seang, Romeo Aiyabei, Landon J. Chipps, Harsh Bathla, Antonio Lopez, Cynthia T. Hsu

Poster 155 : Estevan Parra-Guerrero - “Exploring the Influence of Parental Work Ethic and Cultural Norms on First-Generation Millennial Student Affairs Leaders at Fresno State”

Poster 156 : Nicholas Amely - “AI-Based Mobile Projecting System Using a Supernumerary Robotic Limb”

Poster 157 : Saeed Amer - “Real-Time Monitoring of Enzyme Kinetics Using ^{19}F NMR Spectroscopy”

Poster 158 : Esmeralda (Esme) Schwerin - “The View From Above: Challenging Deficit Thinking”

Additional Authors: Esme Schwerin, Michelle Katuala, Navid Amarlou

Poster 159 : Seiji Shinkawa - “Utility of Epidermal Autografting with 3:1 Split Thickness Skin Graft on Aesthetic Outcomes in a Double Amputee: A Case Report”

Additional Authors: Justin Van Hoorebeke, MD, MS, Erich Lemker, MD

Poster 160 : Hannah Chamberlin - “Evaluation of the Efficacy of a Cytokinin-Based Biostimulant on Yield and Quality of Processing Tomato Subject to Deficit Irrigation”

Additional Authors: Florence Cassel, Dave Goorahoo

Poster 161 : Chahat Asi - “We Are Not Plants to 'Weed Out': Navigating Self-Efficacy, Burnout, and Social Support for First-Year STEM Majors”

Additional Authors: Author(s): Nemah Abdulla, Rania Alteshi, Chahat Asi, Dr. Emily Walter

