

2024 Central California Research Symposium Event Schedule

POSTER PRESENTATIONS

ROOM 105, RESNICK STUDENT UNION RUIZ BALLROOM

Session 1: 8:15am-10:00am

Poster 1: Puneeta Salhan - *"Astronomical Works of Mathematics"*

Poster 2: Angelia Leggett - *"Comparison of Composition of Clove Oil Isolated by Steam Distillation and Liquid Carbon Dioxide Extraction"*

Additional Authors: Katelynn Tripp

Poster 3: Stephanie Ruiz - *"Application of Metabolomics to Assess the Role of Microbial Communities in the Contamination Process of Groundwater"*

Additional Authors: Stephanie Ruiz, Daniel R. Scharton, Aric Mine, Krish Krishnan

Poster 4: Billy Truong - *"Elucidating the Magnetic and Structural Properties of Single-nanometer Iron Oxide MRI Contrast Agents via State-of-the-art Spectroscopic Methods "*

Additional Authors: Yunfei Zhang, Deepika Bhanot, Marco Galaviz, Yuanyuan Li, He Wei

Poster 5: Maria Del Carmen Reynoso Rivas - *"Targeted identification of amino acids in metabolomics using 19F NMR: A proof-of-concept application to citrus"*

Additional Authors: Keeton Montgomery, Saeed Amer, Candido Breceda Jr, Guanglin Chen, Qiao-Hong Chen, and Krish Krishnan

Poster 6: Sadie Ortiz - *"Anger and Personality Variations"*

Additional Authors: Dr. Patrick Durkee, and Sadie Ortiz

Poster 7: Yogeshwari Oka - *"Investigating AR9.6 inhibition of protein-protein interactions between MUC16 and binding partners"*

Additional Authors: Cory L. Brooks

Poster 8: Hassoon Sarwar - *"Enhancing Structural Variant Detection Using Multi-Generational Genomic Data"*

Poster 9: Karen Medina - *"Efficient Synthesis of Fluorine-Tagged tert-Butyl Peroxyester Precursor of Allylbenzene Radical"*

Additional Authors: Ani Abajian, Karina Bustos, Hailey Scharton

Poster 10: Arlene Mendoza - *"DOES THE IMPLEMENTATION OF FULL-TIME NURSE EDUCATORS IN A MENTAL HEALTH CRISIS FACILITY DECREASE THE INCIDENCE OF FACILITY ADMISSION DENIALS AND ULTIMATELY IMPROVE ACCESS TO ACUTE MENTAL HEALTH CARE"*

Poster 11: Adrian Sanchez Lazaro - *"To what extent does hydrophobic recovery at physiological conditions occur in polyvinyl alcohol films after nitrogen plasma modification"*

Additional Authors: Anoshka E.Choudhury, Morgan J. Hawker Ph.D.

Poster 12: Ivan Soto - *"Light drives sleep independently of the circadian clock"*

Additional Authors: Lesly Lopez Soriano, Jocelyn Velazquez, Antonio Lopez, Cynthia T. Hsu

Poster 13: Bionce Diaz - *"Exploring Dec Mutant: Insights from Computational Design to Expression and Purification. "*

Additional Authors: Ololade Eunice Odozie, Paulina Medina, Risako Fukazawa, Masaki Uchida

Poster 14: Sophia Salinas - *" Social, Environmental, and Health Factors Affecting Infant Mortality Rates in Kern County, CA"*

Additional Authors: Dr. Helda Pinzon-Perez, Ph.D., RN, FNP-BC, MPH, MCHES

Poster 15: Charles Lichtenstern - *"Integration of Point-Of-Care Ultrasound in Vaccination Education and Training of Osteopathic Medical Students: a Pre-Post Intervention Study"*

Additional Authors: Charles Robert Lichtenstern, Abel Thomas, Lilian Reddivalam, Brandon Book, Emily Yan, Patrick Bagumyan, Mohammad Rahman, Jonathan Terry, Sidney James, Sundeep Grewal

Poster 16: Dustin Hedrick - *"Health Literacy Intersections with Mental Health and Social Determinants Of Health in Fresno County "*

Additional Authors: Davenna Morales, Tania Pacheco-Werner, PhD, Emanuel Alcala, PhD

Poster 17: Edgar Villegas Plascencia - *"Effects of University Environment on Latinx Academic Self-Efficacy; A Consideration of Depression, Stress, and Anxiety as Mediators"*

Poster 18: Shailey Shah - *"Analyzing Human Health Effects of Per- and Polyfluoroalkyl Substances (PFAS)"*

Poster 19: Japneet Gill - *"Identifying Whole Blood Donation Barriers in Sikhs in the Central Valley"*

Poster 20: Andy Cabrera - *"Hematological variables do not explain condition-dependent traits in a wild songbird."*

Additional Authors: Joel Slade & Daniel Baldassarre

Poster 21: Phillip Ward - *"Mechanism of Interaction between VHH Antibodies and LDH-GBS"*

Poster 22: Hli Lee - *"In primary care clinical staff, does providing classical music therapy during non-productive, non-clinical time help to reduce clinician stress levels."*

Poster 23: Candido Breceda - *"Metabolomics of Dormant Pistachio Cultivars Treated with Rest-Breaking Agents using High-Resolution NMR"*

Additional Authors: Keeton Montgomery, Faranak Hadevi, Gurreet Brar, Krish Krishnan

Poster 24: Rayund Riley Ocampo - ***"Antimicrobial Resistance of Acinetobacter Baumannii mutants"***

Poster 25: Ting-fen Lin - ***"Improving Wellness with the Utilization of Breathwork Meditation in Underrepresented Graduate Students"***

Additional Authors: Ting-fen Lin, Ph.D., CCC-SLP, Dilian Rolins, Ph.D., Yasar Nur Dedeoglu, Ph.D., and Yangyang Liu, Ph.D., NCC, CCC

Poster 26: Ireland McCall - ***"Subsurface Water Flow Potential & Groundwater Recharge "***

Additional Authors: Joseph Gallegos

Poster 27: Julie-Anne Woods - ***"Investigating potential regulatory effect of the expression of Bcl-2 and Bcl-xL on the growth yield of the yeast model Saccharomyces cerevisiae"***

Additional Authors: Hailie Willey, Laurent Dejean

Session 2: 8:15am-10:00am

Poster 1: Alessandro Toledo Salazar - *"Improving Water Distribution Systems Management: A Clustering Approach"*

Additional Authors: Jorge Pesantez

Poster 2: Mikayla Leggett - *"A spectral method approach to solving heat equation with time-varying boundary conditions"*

Poster 3: Enrique Alameda Jr - *"Production of Agricultural Water and Nutrients from Saline Water Sources"*

Additional Authors: William Wright, E. Alameda, S. Phen, W. Mizuno, K Longley, S. Banerjee, M. Waite, S. Phen, A. Correa, A. Toledo, M. Sanchez, P. Frantz, H. Tan, S. Velo, M. Khalid, A. Ahmed.

Poster 4: Yasmina Johnson - *"Parent-child Relationship, Retrospective Feeding Practices, and Mental Wellness: A Study on Food-Insecure Students"*

Additional Authors: Muneeb Afnani B.S., Analisa Padilla B.A.,

Poster 5: Stephanie Valleser - *"IN PRIMARY CARE PROVIDERS IN THE CENTRAL VALLEY OF CALIFORNIA, DOES A KNOWLEDGE DEFICIT EXIST RELATED TO AVAILABLE COMMUNITY RESOURCES FOR DIAGNOSED AUTISTIC CHILDREN"*

Poster 6: Jacob Caraccilo - *"Modeling Environmental Factors Effects on Valley Fever Rates"*

Additional Authors: Mario Banuelos

Poster 7: Haylee McFall - *"Fabricating collagen films with oxygen-release capabilities through 1,7-octadiene PECVD encapsulation of calcium peroxide"*

Additional Authors: Naylene Velasquez

Poster 8: Monique Marquez - *"Evaluating the Taxonomic Relationships of Different Phlox pungens Population Centers Utilizing Genetic Characteristics"*

Poster 9: Chai Lee - *"The Impact of the COVID-19 Pandemic on Hmong American Mental Health "*

Additional Authors: Pa Nhia Xiong, Chair

Poster 10: Matthew Benincosa - *"COMPARISON OF INTERMITTENT AND CONTINUOUS ENTERAL FEEDS AND THEIR EFFECT ON GLUCOSE LEVELS IN BURN SUBJECTS"*

Poster 11: Emily Kendrick - *"Food Parenting Practices, Food Insecurity, and Eating Behaviors in College Students"*

Additional Authors: Andrew Villareal, Lesly Jimenez, Kaito Okamoto-Garson, Victoria Brazier, & Lauren Dial

Poster 12: Ian McCollum - *"On the thermodynamics of double bond rotation in co-solvent conditions for further insight into Enthalpy-Entropy Compensation"*

Additional Authors: Ian McCollum, Dexter Frampton, Matt Glick, Krish Krishnan, Santanu Maitra

Poster 13: Victoria Wiest - *"Students' Misconceptions in Defining and Representing Triangles"*

Poster 14: Mina Abdelmessih - *"Improving the Stability of Biodegradable Films Treated with Nitrogen Plasma: Exploring Approaches to Reduce Hydrophobic Recovery "*

Additional Authors: Carlos Pizano, Morgan J. Hawker PhD.

Poster 15: Yazmin Vargas - *"Addressing Disproportionality of African Americans and Native American Children and Families in Tulare County Child Welfare Services"*

Additional Authors: Yazmin Vargas - MSW Graduate Student & Pa Nhia Xiong, Ed.D., MSW
– Thesis Chair

Poster 16: Grant Mendoza - *"Geospatial Analysis of the Association between Food Deserts, Transportation, and Hypertension Prevalence in California "*

Additional Authors: Mary A. Garza, PhD, MPH, Zoel A. Quinonez, MD, MPH, Mohammad Rahman, PhD, Emanuel Alcala, PhD

Poster 17: 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-RA) improve their Hgb A1C levels after 6 months of GLP-RA treatment?"*

Poster 18: Dani Huerta B.A. - *"What personal factors might influence the impact of food insecurity in college students? "*

Additional Authors: Catherine Camargo AA-T., Andrew Villarreal B.A., Lauren Dial

Poster 19: Mary Topoozian - *"Optimization of PCR Primers for Mycoplasma Detection in Cancer Cell Cultures "*

Additional Authors: Abdelrahman Elnaggar and Mary Topoozian

Poster 20: Zulaikha Ali - *"Two-pronged Computational and Experimental Analyses of New Single-nanometer Iron Oxide Nanoparticles for MRI Applications "*

Additional Authors: Zulaikha Ali, Yunfei Zhang, Michael G. Kaul, Gerhard Adam, He Wei,

Poster 21: Lesly Jimenez - *"Challenges of experiencing food insecurity in college: A qualitative analysis "*

Additional Authors: Yasmin Alvarado, Catherine Camargo, Lauren Dial

Poster 22: Abbas Dadawalla - ***"Isolation of Potential Anti-Prostate Cancer Agents from *Erigeron canadensis*"***

Additional Authors: Eva Chen, Guanglin Chen, Anil Shrestha, Qiao-Hong Chen

Poster 23: Victoria Brazier - ***"First Generation College Status and Immigration Status Impacts Dietary Consumption in College Students"***

Additional Authors: Yvette De Jesus, Andrew Villarreal B.A. , Muneeb Afnani B.S., Nadia Salcedo, Lauren Dial Ph.D

Poster 24: Cristiana Gonzalez - ***"Pride and Personality"***

Additional Authors: Marilyn Garcia, Patrick Durkee

Poster 25: Prabhjot Gill - ***"Exploring Neurotoxicity: Investigating BMAA as a Potential Link to Neurodegenerative Diseases and Its Impact on Fruit Flies"***

Poster 26: Chaeson Sears II - ***"Affordable Prosthetic Arm"***

Additional Authors: Nicolas Macias, The Nguyen and Hovannes Kulhandjian

Session 3: 10:15am-12:00pm

Poster 1: Der Thao - *"Examining the Impact of i-Ready on Elementary School Teachers"*

Additional Authors: Dr. Hyeri Hong

Poster 2: Alejandro Alvarez - *"Public Perceptions of American Symbolism: Through the Lens of the Social Identity Theory"*

Additional Authors: Julissa Magana, Jasmine Flores

Poster 3: Luis Ceron - *"Comparing Photoexcited States of Phenylureas"*

Poster 4: Giovanna Munoz-Gonzalez - *"The Digitization of the CSU Fresno Herbarium"*

Additional Authors: Vanessa Fabian, Katherine Waselkov

Poster 5: Mona Sandoval - *"The Manipulation of the Better-than-Average Effect in Motor and Memory Tasks"*

Additional Authors: Martin Shapiro, Jennifer Velasco, Desire Salazar

Poster 6: Andrea Rozier - *"Negative Representation of African Americans in the News: A Study of the Dr. Joseph David Toney Case"*

Poster 7: Emmanuel Okposio - *"Cloning, Expression, and Purification of DNA Polymerase I for Teaching and Research purposes at Fresno State"*

Additional Authors: Darian Gomes, Manvinder Kaur

Poster 8: Sage Hawk Keen-Haskins - *"Exploring the Interplay of Traditional Gender Norms, Psychological Flexibility, and Attitudes towards Gender Non-Conforming Individuals"*

Additional Authors: Vanessa Martinez, B.A., Alejandro Alvarez, M.A.

Poster 9: Kaylen Situ - *"Investigating the Value of High Impact Practices Through Accounting Internships in a Minority Serving Institution "*

Poster 10: Andrew Villarreal B.A. - *"Food Insecurity in Latinx College Students: Availability, Convenience, and Cost of Food-Related Resources on Campus"*

Additional Authors: Analisa Guerrero Padilla B.A., Emily Kendrick B.A. , Dr. Lauren Dial PhD

Poster 11: Ramakrishna Kandi - *"Investigating the Mode of Action (MOA) of Nematocidal Chalcones in C. elegans: A Lifespan and CRISPR/Cas9 Study"*

Poster 12: Enas Jawad - *"Technological Challenges Encountered by ESL Students with Disabilities at Fresno State"*

Poster 13: Keyora Wharry - *"Development of Reference Genes for the Study of Gene Expression using RT-qPCR in Caenorhabditis elegans"*

Additional Authors: Alejandro Calderón-Urrea

Poster 14: Courtney Goodwin - *"Impacts of COVID-19 on Social Anxiety"*

Additional Authors: Delaney Gilman, Tiffany Brennan

Poster 15: Belen Torres - *"*"I am capable": A Phenomenological Study on Self-Efficacy Amongst First-Generation Undergraduate Students from the Central Valley*"*

Additional Authors: Karlie Bradbury

Poster 17: Saeed Amer - *"Real-Time Monitoring of Enzyme Kinetics Using 19F NMR Spectroscopy"*

Additional Authors: Krish Krishnan

Poster 18: Alejandro Carmona-Jimenez - *"Bioinformatic and genetic tools for unravelling genes involved in agronomic traits of interest in chickpea."*

Additional Authors: Alejandro Carmona-Jimenez and Alejandro Calderón-Urrea

Poster 19: Abraham Herrera - *"The Voice In Your Head: Auditory Imagery and the Sound of Memories"*

Additional Authors: Karl M. Oswald, PhD

Poster 20: Simranjeet Sekhon - *"Journey of Gender Roles: Experiences within Migration and Marriage of Punjabi Immigrant Women in Fresno County"*

Poster 21: Eduardo Martinez - *"Machine Learning for Advanced Signature Verification"*

Additional Authors: Justis William Mencarelli, Amith Kamath Belman Ph.D.

Poster 22: Jasmine Flores - *"Clinician Attitudes Towards Artificial Intelligence (AI) in Documentation"*

Additional Authors: Nicole Birfer

Poster 23: Carissa Scheuerman - *"The Impact of Auditor Changes on Managers' Choice of Earnings Management Strategies"*

Additional Authors: Shu Lin

Poster 24: Sharon Valadez - *"Gratitude and Personality Variation"*

Additional Authors: Patrick Durkee

Session 4: 10:15am-12:00pm

Poster 1: Laura Mercer - *"Forgotten Black Panther, Marie Walker Johnson"*

Poster 2: Edgar Parrilla - *"A Phenomenology Study: An Exploration of Formerly Incarcerated Latino Men (FILM) and their (re)entry into Higher Education"*

Poster 3: Vivian De La Cruz - *"Social-Emotional Learning and Its Implications in Art Education"*

Additional Authors: Krishen Kitongan

Poster 4: Frederick Lisitsa - *"Enhancing Education through Immersive Relations: Integrating Distributed Cognition with Artificial Intelligence"*

Additional Authors: Frederick Lisitsa, Vadim Keyser PhD, Abraham Herrera

Poster 5: Nathan Theng - *"A Neural Network Approach to Enhance Structural Variant Detection on Genomic Signals"*

Poster 6: Valentina Vivas Castaneda - *"General efficacy, social disconnectedness, and gender bias among a sample of computer science students"*

Additional Authors: Muneeb Afnani B.S, Farin Bakhtiari Ph.D

Poster 7: Quynh Nguyen - *"Investigate Chalcone's Nematocidal Pathway by Isolation and Identification of Mutants and Putative Genes for Chalcone Resistance"*

Additional Authors: Arwa Alsubhi, Melissa Jauregui, Zoi Gavel, Alejandro Calderon-Urrea

Poster 8: Darian Gomes - *"The Effects of the Neurotoxin β -Methylamino-L-Alanine (BMAA) on the Structure and Function of Human Ubiquitin"*

Additional Authors: Joy J. Goto

Poster 9: Ashley Gonzales - *"The Decision-Making Processes of College Undergraduates Seeking a Law Enforcement Career Path"*

Additional Authors: Dr. Marcus Lee Shaw (Thesis Chair), Dr. Jordan Pickering (Thesis Advisor), and Dr. Monica Summers (Thesis Advisor)

Poster 10: Jorge Aguilar-Cisneros - *"The Cascade Reaction of Benzofurans via Sonogashira Cross-Coupling in a Micellar Medium "*

Additional Authors: Isabella Garcia

Poster 11: Harmanjoth Brar - *"Cloning, Expression, and Purification of MMLV (Moloney Murine Leukemia Virus) Reverse Transcriptase for Use in Teaching Labs"*

Additional Authors: Ramakrishna Kandi, Olga Furtado, Gabriel Hernandez

Poster 12: Mackenzie Jackson - *"Computational Modeling of the Radical Formation of Pentane and Acrylic Acid as Plasma Precursors in Low Temperature Plasma"*

Poster 13: Litzy Gomez - *"Incivility Outcomes in the Accounting Workplace: Evidence from Tax Professionals"*

Poster 14: Karina Hernandez-Hernandez - *"Investigating one carbon metabolic pathway in HER2+ breast cancer "*

Poster 15: Hannah Buijs - *"The co-expression of the proto-oncogene bcl-2 and the tumor suppressor bax affects metabolic shifts in the brewer's yeast Saccharomyces cerevisiae"*

Additional Authors: Hailie Willey, Carlos Gonzalez Nunez, Krish Krishnan, Laurent Dejean

Poster 16: Amneek Chalotra - *"nderstanding the Influence of Information Availability on Voter Decision-Making: A Case Study of Fresno County's Measure C Re-Election"*

Additional Authors: Noami Bick

Poster 17: Juan Jesus Marquez Diaz - *"Deep-Fake Detection Approach of GANs-based Morphing Attacks by Using Benford's Law"*

Additional Authors: Juan Martinez, Yubo Zhou

Poster 18: Sydney Rivera - *"Affordable Prosthetic Arm"*

Additional Authors: Visotheara Var, Jason Yang, The Nguyen and Hovannes Kulhandjian

Poster 19: Branden Hunter - *"Underrepresentation of Bacteriophage Proteins for Machine Learning"*

Additional Authors: Branden Hunter, Jeesu Lee, Hyunjin Shim

Poster 20: Phoebe Bloomfield - *"Rehabilitation of Water Distribution Systems Based on a Clustering Approach"*

Poster 21: Alexandria Singh - *"Plumage traits are not correlated with body condition in male house finches (Haemorhous mexicanus)"*

Additional Authors: Daniel Baldassarre, Joel Slade

Poster 22: Adie Escalera - *"Understanding the Dynamics of Gambling Attitudes: A Comprehensive Study on Risk, Impulsivity, and Prior Experiences "*

Poster 23: Zachary O'Neil - *"Investigation of Brain Activity while Listening to Music using Brain Computer Interface (BCI)"*

Additional Authors: John Herrera, Rachel Behan, Sukhraj Gill, Jacob Perry, Rodrigo Rubio, Daniel Savala, Anahit Hovhannisyan, Hovannes Kulhandjian

Poster 24: Arya Desai - *"Analyzing Financial Literacy at Fresno State"*

Poster 25: Angela Maldonado Alfaro - *"Unlocking Water Demand Patterns and Outdoor Consumption Insights for Targeted Conservation Strategies "*

Session 5: 1:15pm-3:15pm

Poster 1: Jessica Perez - *"Rethinking Psychedelics: An Exploration of College Students' Perceptions on Drugs"*

Additional Authors: Martin Shapiro, Ph.D

Poster 2: Julia Htoon - *"The Draw a Biologist Test for Use in Undergraduate Biology"*

Additional Authors: John Lloyd Sheetz, MA, Alexandria Hansen, PhD

Poster 3: Daniel Hidalgo - *"Development of High in Protein Ice Cream "*

Additional Authors: Erin Dormedy (Ph. D.)

Poster 4: Nicholas Amely - *"AI-Based Bridge and Road Inspection Framework Using Drones with GPS-less Navigation "*

Additional Authors: Jose Maciel Torres, Cruz Nieves, Christian Reeves, Michel Kulhandjian

Poster 5: Abraham Velazquez - *"Thermal Stress Reduces the Effects of Methyl Farnesoate in the Porcelain Crab *Petrolisthes cinctipes*"*

Poster 6: Josue Magana - *"Creating a Phylogenetic Relationship Between the US Southwestern and Galapagos Islands *Amaranthus* Species"*

Additional Authors: Josue Magana, Katherine Waselkov

Poster 7: Analisa Guerrero Padilla - *"Perceptions of Discrimination and Well-Being Among Latinx College Students: Examining Biculturalism as a Moderator"*

Additional Authors: Yvette De Jesus, Thrinity Drake, Rosa I. Toro Ph. D

Poster 8: Terone Dunbar - *"Analysis of Genes Associated with Cell Shape in a Thyroid Cancer Cell Line "*

Additional Authors: None

Poster 9: Angelina Seang - ***"Glial Knockdown of NMDAR2 Causes Epilepsy in the Drosophila Model"***

Additional Authors: Cynthia T. Hsu

Poster 10: Chelsea Castillo Najera - ***"Impact of environmental enrichments in a tunnel ventilated broiler house on wind speed"***

Additional Authors: Monica Franco, Chelsea Castillo Najera, and Katy J. Tarrant

Poster 11: Julianna Morales - ***"Guilt and Personality Variation "***

Additional Authors: Dr. Patrick Durkee, Ph.D.

Poster 12: Jaden Luna - ***"Engineering and testing of a novel composite for the remediation of hydrocarbons and heavy metals"***

Poster 13: Adrianna Grieco - ***"Assessing Temperature Dependence of Developmental Delay Frequencies within Intra-Species Hybrids of Caenorhabditis briggsae"***

Poster 14: Lillian Kier - ***"Using drainage water to grow an alternative salt and boron tolerant crop, guayule, that produces natural latex and resin for the San Joaquin Valley in Central California, then conducting parametric analysis to investigate the economic feasibility for farmers."***

Poster 15: Monica Aviles-Mercado - ***"Exploring Language Brokering, Problem Behaviors, and the Moderating Roles of Cultural Values and Gender: An Interdisciplinary Approach "***

Additional Authors: Yvette De Jesus, Rosa Toro, Larissa Mercado-Lopez

Poster 16: Sierra Evans - ***"Discovering the Role of the Epiphyte Material in Macrophyte Beds for Juvenile Chinook Salmon Populations in the San Joaquin River"***

Additional Authors: Dr. Steve Blumenshine CSU-WATER, Michelle Reynaud

Poster 19: Hussein Ahmed - *"How do dominance and prestige relate to physical formidability?"*

Additional Authors: Hussein Ahmed, Dr. Durkee

Poster 20: Prem Raj Timilsena - *"Inspection Technologies for Construction and Maintenance of Highway Infrastructure – Review and Analysis"*

Additional Authors: Manideep Tummalapudi, PhD

Poster 21: Scott Bennett - *"Raspberry Pi Parking Vacancy Detector"*

Poster 22: Varun Raj - *"Investigating the role and evolutionary tradeoffs of pgpB and AdeN mutations in antibiotic resistance"*

Additional Authors: Dr. Francine A. Arroyo

Poster 23: Avantika Dixit - *"Use of ChatGPT for Improving Construction Management Students' Technical Writing Skills"*

Additional Authors: Avantika Dixit, Dr. Yupeng (Vivien) Luo, Dr. Wei Wu

Poster 24: Fionna Romans - *"A Comprehensive Review of Literature Investigating the Experiences of Students with Disabilities in Higher STEM Education"*

Additional Authors: Alexandria Hansen

Poster 25: ShayLee Denham - *"A semi-automated method for quantitative kinematic analysis of crawling behaviors in medicinal leeches"*

Additional Authors: Andrei Catalan, Joshua Valadez, Joshua G. Puhl

Poster 26: María de las Mercedes Rojas-Gómez - *"Exploring the production and interannual variability of pollen in olive cultivars: A study of the World Olive Germplasm Bank of the University of Cordoba (Spain)."*

Additional Authors: Carmen Galán-Soldevilla, Concepción Muñoz-Díez, and Alejandro Calderón-Urrea

Session 6: 1:15pm-3:15pm

Poster 1: Emery Her - *"Memory Across Languages: Investigating Working Memory and Retention in Bilinguals"*

Additional Authors: Emery Her, Julissa Magaña, Vanessa Martinez, and Craig Landers, Ph.D.

Poster 2: Nickolas Callender - *"Synthesis of Licochalcone A Analogs as Anticancer Agents"*

Additional Authors: Roxana Gonzalez 1, Esveidy Ocegüera 1, Guanglin Chen 1, Nickolas Callender 1, Qiang Zhang 2, Guangdi Wang 2, and Qiao-Hong Chen 1

Poster 3: Luay Al Aghbari - *"Analysis of Artificial Neural Network Forecasting Capabilities with Water Demand Data"*

Poster 4: Evan Chang - *"Antifungal Drug Discovery Through the Synthesis of Azole-Containing Compounds"*

Poster 5: Sophia Susoeff - *"The Effect of Variability in Task Difficulty on Risk Preferences"*

Additional Authors: Jayde Beavers

Poster 6: Emilie Hingray - *"The importance of residue Thr182 in the function of cAMP receptor protein from Escherichia coli "*

Additional Authors: Amanda Rea, Sreyphech Lam, Kaa Yang, Rimsha Farooqui, and Hwan Youn

Poster 7: Eddy Rodriguez - *"Exploring the Role of Filial Responsibility in the Link between Family Achievement Guilt and Internalizing Symptoms among Latinos in College"*

Poster 8: Savannah Salters - *"The Updated Version of Equine Reproduction"*

Additional Authors: Fabio Iared, Dr. Jeanne Broch Siqueria, Dr. Thiago Vasconcelos, Dr. Adalfredo Racho Lobo Júnior

Poster 9: Melissa Jauregui - *"Exposing Caenorhabditis elegans to fluorescent chalcones to identify the specific anatomical regions affected by chalcone exposure"*

Additional Authors: Melissa Jauregui, Eema Quadri, Zoie Gavel, Nayeli Saldaña, Ramakrishna Kandi, and Alejandro Calderón-Urrea

Poster 10: Jasmin Joy Andrada - *"An Analysis of Produce Consumption in Fresno County"*

Additional Authors: Dr. Srinivasa Konduru, Dr. Serhat Asci

Poster 11: Julissa Magana - *"Emotional Connection with Canine Companion Officers "*

Additional Authors: Alejandro Alvarez, Jasmine Flores, Nicole Birfer, Vanessa Martinez, Emery Her, and Michelle Desmond

Poster 12: Harshkumar Bhatt - *"Fabrication and characterisation of flexible composite co-polymer solid electrolytes based on PVDF-TrFE-Ti3C2 MXene: toward utilization in solid-state Li-ion batteries"*

Additional Authors: Harshkumar Bhatt¹, Derek Xiong¹, David Ryman¹, Sankha Banerjee Ph.D¹,
¹Mechanical Engineering, California State University, Fresno, Fresno, California, United States

Poster 13: Yvette De Jesus - *"Does Bicultural Involvement and Family Cohesion Mediate the Relationship Between Language Brokering and Problem Behaviors Among Latinx Adolescents?"*

Additional Authors: Eddy Rodriguez, Monica Aviles-Mercado, Rosa I. Toro Ph.D

Poster 14: Diego Teran - *"An Innovative Assistive Device to Facilitate Wheelchair-to-Toilet Transfers for Patients with Lower Extremity Weakness"*

Additional Authors: The Nguyen and Emily Yan

Poster 15: Evangeline Gerhardt - "*Feminist Methodological Intersectional Applications for Examining Queerness, Disability and Academic Student Support Services in Higher Education at Fresno State University*"

Additional Authors: N/A

Poster 16: Harini Gangadharan - "*Comparing the gene expression of ERBB gene family in brain metastatic breast cancer using 3D cell culture model.* "

Poster 17: Eric Shergill - "*Sustainable Agriculture: Soil Health with Compost, Vermicompost, Compost/Vermicompost teas and Cover crops*"

Poster 18: Luisa Torralba - "*Exploring Brain-Computer Interface (BCI) for Prosthetic Arm Control*"

Additional Authors: Zachary O'Neil**, Sydney Rivera**, Anthony Westcott*, Ethan Phasakda*, Luisa Torralba*, Anahit Hovhannisyan* and Hovannes Kulhandjian**

Poster 19: Isabelle Dillsaver - "*Competency Measurement for Bilingual School Psychologists*"

Poster 21: Adelynn Wagner - "*Microwave Assisted Solid-State Synthesis and Characterization of RuMo₅Se₈ and Preliminary Proton Adsorption Studies*"

Additional Authors: Rose Smiley, Daniella Ingloría, Jesús M. Velázquez

Poster 22: Vanessa Martinez - "*Impact of Language on Verbal Proficiency: A Comparison of WAIS-IV Vocabulary Subtest Performance in Spanish Bilinguals*"

Additional Authors: Julissa Magaña, B.S., B.A.; Emery Her B.S., B.A.; Radek Brandysky B.A.; Sage-Hawk Haskins B.A.; Alejandro Alvarez M.A.

Poster 23: Sayra Lucas - *"Examining the Interplay between the Chicano Movement and Hispanic Americans': Educational Attainment, College Enrollment, and Occupational Segregation"*

Additional Authors: Iliana N. Romero, Todd Sorensen, Ph.D.

Poster 24: Yashvi Bajaj - *"Revolutionizing PCR: Enhanced Taq Polymerase Production via E. coli Transformation and Purification."*

Additional Authors: Yashvi, Varun Raj, Ricardo Cortez, Keyora Wharry

Poster 25: Danica Belman - *"Analyzing Trap Size and Position in Utricularia australis"*

Poster 26: Hiba Suhail - *"Perceptions of Police Legitimacy Explain Color-Blind Racist Attitudes Above and Beyond Socioeconomic Status, Empathy, and Just-World Beliefs: A Multivariate Analysis "*