

## Poster Presentations – Wednesday, April 19, 2023

Session I – 8:30-10:00 AM

Fresno State Library

2nd Floor between the Elevator & Ellipse Gallery

- 1     ***The Role of Protein-X in Tunneling Nanotube (TNT) Formation***  
*Daniel Savala*
  
- 2     ***STATE SPORT-CONFIDENCE, SELF-EFFICACY, AND SHOOTING ACCURACY FOLLOWING A BRIEF MENTAL SKILLS TRAINING INTERVENTION WITH FEMALE D1 WATER POLO PLAYERS***  
*Savannah Fitzgerald*
  
- 3     ***The Impact of Biofungicides on Fermentation and Aromatic Profile from Chardonnay Wine Grapes of Central Coast of California***  
*Wen-Yin Chueh, Qun Sun, Shunping Ding, Misha Kwasniewski*
  
- 4     ***Land Allocation in the San Joaquin Valley***  
*Ashleigh Sorensen*
  
- 5     ***Biomimetic Synthesis of Intermediates Towards Tetracyclic Bis-Piperidine Alkaloids***  
*Abbas Dadawalla, Esveidy Ocegüera Nava, Jocelyn Ochoa, Nancy Campos, Nari Chang, Wolfgang Diaz, Yugjeet Grewal, Sannad Jawad, Alejandra Lara, Fabian Maduena, Madelyn Mason, David Nguyen, Perla Ponce, Shaelynn Vang, Qiao-Hong Chen*
  
- 6     ***Exploring the Effects of the Proto-oncogene Bcl-2 on Metabolic Transitions in Brewer's Yeast (*Saccharomyces cerevisiae*)***  
*Andrew Gilbert, Sean Carpoenter*

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- 7     ***Female College Students' Perspectives on Sex Education, Campus Climate, and the Role of Greek Life in Preventing Campus Sexual Assault***

Vanessa Mercado

- 8     ***Investigation of Brain Activity while Listening to Music using Brain Control Interface (BCI)***

Sukhraj Gill, Daniel Savala, Rachel Caitlyn Behan, Rodrigo Rubio, Jacob Perry, John Herrera, Zachary O'Neil, Hovannes Kulhandjian

- 9     ***Synthesis of Structural Analogs of Abietic Acid as Potential Androgen Receptor Antagonists***

Seiji Shinkawa, Inderpal Sekhon, Keyara Piri, Guanglin Chen, Qiao-Hong Chen

- 10    ***Consumer Purchase Intentions in Ethnic Cuisines: What Matters More: Authenticity or Pricing?***

Julie Nguyen

- 11    ***Asp53 substitutions in the cAMP receptor protein confer cAMP-free activity***

Marcus Carranza, M. Carranza, A. Ibarra, H. Youn

- 12    ***The Effects of Ionizing Radiation on Neuronal Stem Cells***

Dahlia Ordaz

- 13    ***The Effects of Methyl Farnesoate on Gonadosomatic Indices in the Porcelain Crab *Petrolisthes cinctipes****

Abraham Velazquez

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- 14     ***Developing an antibacterial wound dressing using pulsed and continuous 1,8-cineole plasma on commercially available wound dressings***  
Mia Rose Kayaian
  
- 15     ***Investigating one carbon metabolic pathway in HER2-positive breast cancer***  
Karina Hernandez-Hernandez
  
- 16     ***Citizens' Perceptions of Police Officer Race, Gender, and Use of Coercion in Response to Domestic Dispute***  
Jacqueline Machado
  
- 17     ***Using Quantum Chemistry to investigate the environmental impact of Pyrethroids and Pyrethrins***  
Kelly Kepler, Amalia Bernardo-Martinez
  
- 18     ***Functional investigation of palladin knockdown in 2D and 3D pancreatic cancer cell cultures***  
Sonali Biswas
  
- 19     ***Synthesis and Antiproliferative Evaluation of Licochalcone A analogs in Triple Negative Breast Cancer Models***  
Roxana Gonzalez, Esveidy Ocegüera, Qiao-Hong Chen
  
- 20     ***Differential Gene Expression in Sub-Populations of a Metastatic Breast Cancer cell line***  
Muskan Bhatia

## Poster Presentations – Wednesday, April 19, 2023

Session II – 8:30 – 10:00 AM

Fresno State Library

Room 3212

- 1     ***Does early-mobilization play a significant role in open heart patients' difference in length of stay?***  
*Mandeep Khara*
- 2     ***Validating stroke Loteria cards to educate Hispanic farmworkers attending a community migrant program on prevention, risk factors, symptoms, and appropriate response to stroke***  
*Esmeralda Diaz Avalos*
- 3     ***Health Care Workers' Experiences of Burnout and Resilience During the Covid-19 Pandemic***  
*Nadia Lopez*
- 4     ***Prophylactic Antibiotic Use in Burn Patients***  
*Amanpreet Grewal*
- 5     ***Acute management of hypertriglyceridemia with a disease specific intravenous insulin infusion order set***  
*Francisco Ibarra*
- 6     ***Readmission Rates for Individuals with a Wound or Ostomy Receiving Intervention by a Certified Wound and Ostomy Nurse in an Outpatient Setting.***  
*Rachel Caro*
- 7     ***Breathing Life Into Learning About Air Quality: Developing and Implementing Environmental Health Outreach With High School Students***  
*Katie Hoskins, Nguyen Trung Dang OMS-II, Fahad Molla OMS-II*

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- 8      **Diabetes Specialty Clinic helping patients met their A1C goals**  
Bradley Ely
  
- 9      ***Vaccination Among The Hispanic Population***  
Leonel Flores
  
- 10     ***Serendipitous Identification Of A Noxo1 Inhibitor By Addition Of A Polyethylene Glycol Chain***  
Joshua Garcia, Dr. Edward J. Merino PhD, Laura Gutierrez-Rivera
  
- 11     ***Comparison of antimicrobial and antibiotic topical use in central line maintenance in hemodialysis patients***  
Thalia Rivera
  
- 12     ***School Nurse Barriers Related to the Delivery of Healthy Eating and Activities Interventions to Students***  
Robyn Harvey
  
- 13     ***Role of Common Resident Gut Bacteria in Colorectal Cancer***  
Charles Lichtenstern, Reena Lamichhane Khadka, PhD, MS
  
- 14     ***Latinx Deaf experiences navigating acculturation and resilience in childhood***  
Janice Smith-Warshaw, Peter K. Crume, Ph.D.

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- 15 **Barriers Associated with HPV Vaccination Among Parents or Guardians of Male Adolescent in Fresno County**  
Mee Lee
- 16 **Spatio-Temporal Analysis of Traffic-Related Air Pollutant Concentration and ED Visits/Hospitalizations in ZIP Codes throughout the Fresno/Clovis Metropolitan Area**  
Vinita Raj
- 17 **The influence of Asian and Indian culture on the Asian-American Pacific Islander and Indian community health worker experience in Fresno County during the COVID-19 pandemic**  
Stephanie Chan, Lulette Lipumano-Sanchez, DDS, MPH, Tiffany Jow, MA, Sohan Banerjee, BS, Atziri Barboza, BA, Ricardo Rubio Arteaga, BA, Miguel Raya Garcia, BS, Gladys Zamora, Ricardo Garcia, Danielle Mireles, PhD, & Tania Pacheco-Werner, PhD.
- 18 **The Benefits of Movement Therapy in the Quality of Life in Parkinson's Disease Patients.**  
Ashley Bowers
- 19 **Air Pollution and Population Growth: Understanding Air Quality Through the Context of Urban Growth in Fresno**  
Manyu Amarasinghe
- 20 **Fresno County Community Climate Change Survey**  
Emanuel Alcala, Josian Zuniga, Armando Ramirez, Dustin Hedrick, and Emanuel Alcala

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- 21     ***Grey Matter Depletion in Conduct Disorder Adolescents through Structural Magnetic Resonance Imaging Studies***

*Thuytien Pham, Rhea Shishodia, Jonathan Terry (DO)*

- 22     **EXAMINATION ON THE UTILIZATION OF LONG-ACTING REVERSIBLE CONTRACEPTION (LARC) IN A RURAL REPRODUCTIVE HEALTH CENTER IN COMPARISON TO NATIONAL AVERAGES**

*Araceli Huerta*

- 23     ***Central Line Dressing Application Procedure and Documentation Compliance on an Inpatient Pediatric Oncology Unit***

*Vanesa Vidal*

- 24     **COVID-19 AND STILLBIRTH: WHY NOW IS THE TIME TO START COUNTING**

*Monica Davis*

- 25     ***ncorporating 3D-Printer models in TBL Applications to Enhance Learning.***

*Dexter Tan, Edward Merino PhD, Hany Ibrahim MD*

- 26     **ELECTRONIC HAND HYGIENE MONITORING SYSTEM TO PREVENT HOSPITAL ACQUIRED INFECTIONS**

*Alicia Moreno*

- 27     ***A Systematic Review of Functional Magnetic Resonance Imaging Studies Investigating Prefrontal Cortex Function in Attention-Deficit/Hyperactivity Disorder (ADHD)***

*Rhea Shishodia, Thuytien Pham, Jonathan Terry (DO)*

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28     ***Cardiac Rehabilitation Programs and Cardiac Readmissions***

*Regina Alvarado*

29     ***Non-Alcoholic Fatty Liver Disease Self-Management Among the Hispanic/Latino Community***

Mary Garza, Naomi Hematillake, Emanuel Alcala PhD, Muhammad Y. Sheikh MD, and Mary A. Garza PhD, MPH

30     ***Oral chemotherapy compliance for acute lymphocytic leukemia (ALL) patients on maintenance therapy: a quantitative descriptive study***

*Rachel Albertson, no*

31     ***Understanding Generation Z: Exploring Experiences of Adversity from a Latinx Children of Immigrants Perspective***

*Cynthia Rodriguez*



## **Poster Presentations – Wednesday, April 19, 2023**

Session III – 10:15 – 11:45 AM

Fresno State Library

Library - Second Floor between the Elevator and Ellipse Gallery

- 1     ***Modeling Environmental Factors Effects on Valley Fever Rates***  
      *Jacob Caraccilo*
  
- 2     ***Effects of ambient and elevated temperature aging on plasma treated silk film hydrophobic recovery***  
      *Alexzandria Kubik, Ashley Keobounnam, Chase Lenert-Mondou*
  
- 3     ***Characterization by NMR spectroscopy and Investigation of Antimicrobial Properties for a Heptapeptide Library Designed with Basic and Acidic Side Chain Residues***  
      *Arun Turna, Keyora Wharry, Gursirat Kaur, Derek Morrelli, Krish Krishnan, Alija Mujic and Kalyani Maitra*
  
- 4     ***Do Telecommuters Make Fewer Trips? An Analysis of Telecommuting Travel Behavior in Urban and Rural Communities in the USA***  
      *Patrick Reilly, Dr. Aly Tawfik*
  
- 5     ***Pedagogy: Its Measurement and Effects on First Semester Calculus I Students***  
      *Gabriel Chavez*
  
- 6     ***Effects of Bcl-xL expression on Glucose Metabolism and Growth Rate of the brewer's yeast *Saccharomyces cerevisiae*.***  
      *Hailie Willey, Carlos Gonzalez Nunez, Krish Krishnan*

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- 7     ***Assessing the effects of luteolin on reducing the effects of zinc-induced hyperphosphorylation of tau and its impacts on behavior in a fruit fly model of Alzheimer's disease***  
*Rajdeep Bhatti, David Lent, Mai Her, Ali Dadawalla, Savera Sheikh*
- 8     ***Novel Design of the EpiPen Facilitating for Reloadable Dosage***  
*Ariana Rajabi, Emma Wilson*
- 9     ***Antifungal Drug Discovery Through Synthesis and Biological Evaluation of Small Novel Organic Molecules***  
*Brendan Holden, Matthew Lee, Violeta Lopez, Claudia Ramirez, Aaron Chhun, Charles Kilabi, Santanu Maitra, Alija Mujic*
- 10    ***Targeted quantification of amino acids in metabolomics using <sup>19</sup>F NMR: A proof-of-concept application to citrus.***  
*Maria Del Carmen Reynoso Rivas, Keeton Montgomery, AyaElhabashy, Larry Casarrubias-Tapia, Guanglin Chen, Qiao-Hong Chen, Krish Krishnan*
- 11    ***Central California's Checker Lilies: Exploring the Diversity of Fritillaria Species through Population Genetics***  
*Jacklyn Fajardo, Andrew Cardenas, Arshnoor Kaur, Chris Winchell, Katherine Waselkov*
- 12    ***Determining the antioxidant activity of three different surface modified chitosan films***  
*Ashley Keobounnam*

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- 13     ***The Role of Release Month in the Reproductive Success in Hatchery Raised Chinook Salmon from the San Joaquin River***  
*Caoilinn Hardy, Paul Adelizi, Mike Grill*
- 14     ***Conformational analysis of amide bonds: Exploration into Enthalpy-Entropy Compensation under mixed solvent conditions.***  
*DeAroderick Mack, Mathew Glick, DeAroderick Mack, Ian McCullum, Krish Krishnan, Santanu Maitra*
- 15     ***Synthesis of Benzofurans via Au(I)-Catalyzed Cyclization of 2-Alkynyl Phenol Derivatives***  
*Kirubel Mamo, Isabella Garcia*
- 16     ***Design comprehension & decision-making facilitated by a mixed reality environment***  
*Ninad Doke, Dr. Wei Wu*
- 17     ***Epitope Characterization of MUC16 Antibodies***  
*Andrew Manion, Guadalupe Romero Viramontez, Cory L. Brooks*
- 18     ***Redevelopment of Local Vacant Structures into Mixed-Use Development***  
*Matt Gomes*
- 19     ***Alzheimer's Disease Drug Discovery: Development of Apolipoprotein E Inhibitors***  
*Claudia Ramirez, Aaron Chhun, Charles Kilabi, Brendan Holden, Isabelle Dillsaver, Matthew Lee, Siok Lam Lim, Masashi Kitazawa*
- 20     ***The Effects of Neurotoxin  $\beta$ -methylamino-L-alanine (BMAA) on Protein Ubiquitination***  
*Darian Gomes, Joy J. Goto*

## Poster Presentations – Wednesday, April 19, 2023

Session IV – 10:15 -11:45 AM

Fresno State Library

Room 2206

- 1     **California Pesticide Regulation: Public Policy and Economic Forecasting**  
Joshua Heupel
  
- 2     **Structural Insight into an Anti-tumor Antibody Bound to a MUC1 Glycopeptide**  
Yazmine Bedolla, Angham Ahmed, Ricardo Cortez, Carina A. Villegas, and Cory L. Brooks
  
- 3     **Is eShopping Taking Over In-Store Shopping? A Trend Analysis of Shopping Activity using the American Time Use Survey (ATUS) Data**  
Shubham Rana, Primary Author: Shubham Rana, n/a – MS Student, California State University, Fresno  
Co-Author: Aly M. Tawfik, PTP – Associate Professor, California State University, Fresno
  
- 4     **Homogenous gold(I)-catalyzed cyclization reactions in water using TPGS-750-M for the synthesis of 2-substituted benzo[b]thiophenes**  
Michael Stevens
  
- 5     **Closing the Knowledge Gap: Reluctance in the Accounting Industry to Engage in the Blockchain Market**  
Jonathan Court
  
- 6     **Current Impacts of Strategic Disruptors on Agri-Food Subsectors**  
Jon C. Phillips, Joseph Ulans, Dr. Fionna Xie, Dr. Steve Archambault, and Khin Nwe

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Room 2206

- 7     ***Fermentation with *Saccharomyces uvarum* as a strategy to mitigate the effects of low acidity produced by warm climate in Central Valley wines***  
*Fatima Chavez Correa, Orrin Frederick, Miguel A. Pedroza*
- 8     ***Impact of Modern Day Media on Mental Health Professional Stereotypes and Help Seeking***  
*Niki Ghanbari*
- 9     ***Investigating the Effectiveness of Acetylcholinesterase Inhibitors in Reducing Planning Deficits of Alzheimer's Disease in *Drosophila melanogaster****  
*Lauren Bernardi, Haley Shah, Shaelynn Vang, Wendy Hernandez, Osaduna Ehigiator*
- 10    ***Comparing the Rate of Hydrophobic Recovery of Nonthermal Oxygen Plasma treated PEEK to PEG-functionalized PEEK in Air Aged and Aqueous Aged Environments***  
*Jacob Wilson*
- 11    ***A User-User Recommendation System and Deep Learning Approach for Epistasis Detection***  
*Sarah Garner, Emma Andrade*
- 12    ***Elucidating the mechanisms controlling toxicity of pathological tau in neurons***  
*Emily Nieman, Gregory Mohl, Gary Dixon, Martin Kampmann*

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Room 2206

- 13     **Modeling Depression and the Effects of 5-HTP Using Learned Helplessness in *Drosophila melanogaster***  
Niki Ghanbari, Victoria Escandon, Amna Khan, Gladys Zamora, Jonah Shepherd, Erika Ghanbari
- 14     **Determination of Clove Oil Composition by Quantitative NMR Spectroscopy**  
*Jasmine Ortigoza Vasquez*
- 15     **Malaria prevalence in overwintering ground sparrows of the Central Valley of California**  
*Zachary Padilla, Esther Fernandez, Joel Slade*
- 16     **Where the Pigweed Grows: A population genetics approach to tracing the Californian invasion of Palmer amaranth (*Amaranthus palmeri*)**  
*Kristine Fajardo, Josue Duque, Katherine Waselkov*
- 17     **Inhibitory effects of non caloric artificial sweetener sucralose on sucrose metabolism in *Saccharomyces cerevisiae*.**  
*Francisco Delafuente, Isaac Chavez*
- 18     **Observing the Effects of Group Work and Content Connection in CHEM 1A classes**  
*Edgar Villegas Plascencia, Xochitl Montero*
- 19     **An evaluation of the impact of the CITES agreement on the trade of hammerhead sharks and their populations**  
*Jia Chung*

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- 20     ***Real-time enzyme kinetics using quantitative  $^{19}\text{F}$  NMR. Application hydrolysis of N-trifluoroacetyl glycine by Acylase I.***  
Saeed Amer, Aya Elhabashy, Krish Krishnan
- 21     ***Synthesis of Dehydroabietylamine Derivatives as Potential Androgen Receptor N-Terminal Domain Antagonists***  
Keyara Piri
- 22     ***Testing for Herbicide Resistance in Californian *Amaranthus tuberculatus****  
Curtis Lefler, Alejandra Cardenas, Anil Shrestha, Katherine Waselkov
- 23     ***Metabolomics of the effect of a novel long-term storage of fruits using the RipeLocker® technology:: A preliminary NMR evaluation in pomegranates***  
Aya Elhabashy, Keeton Montgomery, Maria Reynoso, Yong-Ki Kim, Brendon Anthony, and Krish Krishnan
- 24     ***A meta-analysis of cytokine/chemokine profiles induced by SARS CoV-2 and other viral infections***  
Ashneet Kaur
- 25     ***Cultural congruity and academic self-efficacy Among Latinx college students: Does familism impact this relationship?***  
Summer Herrera
- 26     ***Video-Analysis Study of Student and Instructor Interactions in a Guided-Inquiry Laboratory***  
Patrick Bohan, Patrick Bohan, Alberto Berber, Dermot Donnelly-Hermosillo

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Room 2206

- 27     ***Preferred information sources Fresno State students use when making food choices and preparation decisions***  
*Michele Falk*
- 28     ***Observing the photoexcited states of phenylurea herbicides***  
*Varun Raj, N/A*
- 29     ***Perception of Gender Roles, Self-Esteem, and Well-Being Among Latinx College Students: Does Bicultural Self-Efficacy Buffer this Relationship?***  
*Analisa Padilla, Analisa Guerrero Padilla, Summer J. Herrera, & Rosa I. Toro Ph.D.*
- 30     ***Synthesis of Boronic Ester Precursor for Suzuki Coupling as Anticancer Agents***  
*Khamyl Cooksey, Esveidy Ocegüera*
- 31     ***Changing Mood Through Autobiographical Memory Retrieval***  
*Amanda Alvarado*
- 32     ***Factors Contributing to Success: Self-Performing Framing and Drywall Scopes on a Construction Project***  
*Dr. Manideep Tummalapudi*