

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 Oceguera 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 Oceguera, 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 ***Incorporating 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, Saveria 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 ^{19}F NMR: A proof-of-concept application to citrus.**

Maria Del Carmen Reynoso Rivas, Keeton Montgomery, Aya Elhabashy, 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 β -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 Ehigiamator

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, Elika 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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Room 2206

20 **Real-time enzyme kinetics using quantitative ^{19}F NMR. Application hydrolysis of N-trifluoroacetylglycine 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 Oceguera

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