

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

1

***Therapeutic Interventions with Emphasis on Patient Education for a Middle-Aged Female with Post Rotator Cuff Repair: A Case Report***

**Kristin Ashimoto**, Jennifer Adame-Walker

Jennifer Roos, Ph.D.

2

***Balance Training for a Patient with Disequilibrium and a History of Injurious Falls: a Case Report***

**Hayden Baldwin**, Toni Tyner

Jennifer Roos, Ph.D.

3

***The Effect of Non-Adherence to Balance and Strength Training in an Elderly Patient Who Experienced Chronic Falls: A Case Report***

**Steven Bauman**, Toni Tyner

Jennifer Roos, Ph.D.

4

***Exploring Conservative Physical Therapy Interventions for a 74 Year-Old Male Following a Shoulder Dislocation: A Case Report.***

**Pablo Borceguin**, Jennifer Adame-Walker

Jennifer Roos, Ph.D.

5

***Physical Therapy Interventions to Increase Lower Body Strength and Mobility in a Patient with a Chronic iSCI: A Case Report***

**Jessica Chellsen**, Jennifer Roos

Jennifer Roos, Ph.D.

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

6

***Acute Care Physical Therapy for a Patient Experiencing Neurogenic Shock following a Cervical iSCI with Polytrauma Complications: A Case Report***

**Katelynn Cook**

Jennifer Roos, Ph.D.

7

***Psychosocial and Compliance Impacts on Rehabilitation Following MPFL Reconstruction: A Case Report***

**Karissa DeRousseau, Jennifer Adame-Walker**

Jennifer Roos, Ph.D.

8

***Three-Week Non-Operative Progressive Loading Program for the Treatment of Medial Meniscus and MCL Injuries: A Case Report***

**Kevin Dunn, Jennifer Adame-Walker**

Jennifer Roos, Ph.D.

9

***Physical Therapy Interventions for an Elderly Male with Cognitive Impairments and a Proximal Femoral Open Reduction Internal Fixation: A Case Report***

**Jonathan Fernandez, Jennifer Roos**

Jonathan Fernandez, Ph.D.

10

***Conservative Physical Therapy Interventions for Grade V Acromioclavicular Joint Separation in a Twenty-Five-Year-Old Patient: A Case Report***

**Samantha Fong, Jennifer Adame -Walker**

Jennifer Roos, Ph.D.

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

11

***The Effects of Early Physical Therapy Intervention for a Patient with Multiple Intracranial Hemorrhages Caused by Parasitic Infection: A Case Report***

**Nazanin Ghanadan**, Jennifer Roos

Jennifer Roos, Ph.D.

12

***Physical Therapy Interventions Following a Bilateral Total Hip Arthroplasty in an Individual with Systemic Lupus Erythematosus: A Case Report***

**Jennifer Goulart**, Jennifer Roos

Jennifer Roos, Ph.D.

13

***Physical Therapy Interventions in the Inpatient Rehabilitation Facility s/p Cervical Laminectomy: A Case Report***

**Katrina Gutierrez**, Jennifer Roos

Jennifer Roos, Ph.D.

14

***Physical Therapy Rehabilitation For a 50 Year-Old Male Triathlete Post-Op Peroneal Tendon Repair***

**Gina Horath**, Jennifer Adame-Walker

Jennifer Roos, Ph.D.

15

***The Effects of Task-Oriented Approach and Music Intervention for a Male Suffering from Hemiparesis and Expressive Aphasia Post Stroke: A Case Report***

**Veronica Javier**

Toni Tyner, Ph.D.

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

16

***Improving Function and Independence in the Acute Setting for an Individual Status-Post Craniotomy Secondary to Metastases: A Case Report***

**Bryant Koopmans, Toni Tyner**

Jennifer Roos, Ph.D.

17

***Effects of Physical Therapy Interventions in the Acute Setting for a 74-Year-Old Male Suffering from COPD and Comorbidities: A Case Report.***

**Aaron Larson**

Jennifer Roos, Ph.D.

18

***The Effects of Aquatic Physical Therapy Interventions for a Patient with West Nile Virus: A Case Report***

**Christine Lazaro, Toni Tyner**

Jennifer Roos, Ph.D.

19

***Effects of Therapeutic Interventions, Utilizing A Post-Surgical Protocol, After A Total Shoulder Arthroplasty For A 59-Year-Old Male: A Case Report***

**Andrew Le, Jennifer Adame-Walker**

Jennifer Adame-Walker, Ph.D.

20

***The Effects of Balance and Gait Training on Modifiable Fall Risk Factors: A Case Report***

**Mara MacKinnon, Toni Tyner**

Jennifer Roos, Ph.D.

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

21

***The Effect of Core Stabilization in Addressing Low Back Pain in the Treatment of a Patient Post-ACL Reconstruction: A Case Report***

**Melanie Mah**

Jennifer Roos, Ph.D.

22

***The Correlation Between Psychosocial Health and Physical Therapy Interventions and Outcomes for a Female Patient with Post-Operative RYGB Surgery Complications: A Case Report.***

**Pamela Marchese, Jennier Roos**

Jennifer Roos, Ph.D.

23

***Utilizing the Wells Criteria for DVT and Borg Dyspnea Scale for the Safe Subacute Rehabilitation of an 89 y/o Male s/p bleeding event related to PV: A Case Report***

**Kurt Munoz**

Jennifer Roos, Ph.D.

24

***The Effects of Balance Impairments and Psychosocial Factors on a Post-op Partial Meniscectomy Rehabilitation Program: A Case Report***

**Melanie Niino, Toni Tyner**

Jennifer Roos, Ph.D.

25

***Physical Therapy Interventions for a Patient With Neurogenic Thoracic Outlet Syndrome: A Case Report***

**Ariel Ritschel, Jennier Roos**

Jennifer Roos, Ph.D.

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

26

***Physical Therapy Interventions for a Client Following a Revision Total Knee Arthroplasty Resulting From Arthrofibrosis: A Case Report***

**Danielle Roche**

Jennifer Adame-Walker, Ph.D.

27

***The Benefits of Interventions Used with the Intention of Reducing Fear of Falling and Fall Risk in a Chronic Stroke Patient: A Case Report***

**Jason Schleifer, Toni Tyner**

Jennifer Roos, Ph.D.

28

***Reducing Recurrent Fall Risk of an Elderly Male through Functional Balance & Gait Training: A Case Report***

**Sami Sharaf**

Jennifer Roos, Ph.D.

29

***Implications for Physical Therapy Practice for Calcaneal Fracture Rehabilitation of a 71-year-old Patient with Communication Impairments: A Case Report***

**Robert Vincze, Jennifer Adame-Walker**

Jennifer Roos, Ph.D.

30

***Intervention Strategies to Correct Weight Bearing Asymmetries on a Patient Post Hemorrhagic Stroke: A Case Report***

**Rylan Willis, Toni Tyner**

Jennifer Roos, Ph.D.

# Poster Session I

University Business Center

Gottschalks Gallery

8:00 A.M. – 9:00 A.M.

31

***Management and Treatment of a Patient Post Motor Vehicle Accident with Multiple Diagnoses Including a Closed Head Trauma: A Case Report***

**Jessica Wong**

Jennifer Roos, Ph.D.

32

***Designing a Physical Therapy Intervention Program for a Patient with Acute and Chronic Vestibular Symptoms: A Case Report***

**Bethany Shirk, Toni Tyner**

Jennifer Roos, Ph.D.

# Poster Session II

University Business Center

Gottschalks Gallery

9:15 A.M. – 10:45 A.M.

1

***Examining the Psychology of Ambiguity Tolerance: A Measure of Time and Social Desirability Response Bias***

**Jamile Bucio**, Luis Suarez

Robert Levine, Ph.D.

2

***Determination of the Effects of Particulate Matter Aerosols on ROS Production in Alveolar Macrophage Cells***

**Micah Olivas**, Joel Castillo, Kosha Raval, Anthony Waterston, Alam Hasson, Laurent Dejean

Laurent Dejean, Ph.D.

3

***Recruiting a Diverse Administrative Support Staff: A Case Study at Central Valley University***

**Sue Shaw**

Susana Hernandez, Ph.D.

4

***Sleep Deprivation and Technology Use Among College Students***

**Arcellie Santos**

Suzanne Kotkin-Jaszi, Ph.D.

5

***Design and Fabrication of a Hybrid Plasma Microdischarge and Graphene Based Water Purification System***

**Daniel Apuan**, Mengdi Zhao, Nick J. Marshall, Emma Van Fossen, Jared Shuman, Arshdeep Bhatti, Sankha Banerjee

Sankha Banerjee, Ph.D.



# Poster Session II

University Business Center

Gottschalks Gallery

9:15 A.M. – 10:45 A.M.

6

***Improving the Evosuite Tool for Eclipse IDE using NSGA-III algorithm***

**Akanksha Jaiswal**

Shih Hsi "Alex" Liu, Ph.D.

7

***Exploring Faculty Teaching Practices Through the Lens of Ajzen's Theory of Planned Behavior***

**Alejandro Mendez**, Evelin Munoz, Mireya Lemus, Ivan Ceballos-Madrigal, Lillian Senn, & Emily Walter

Emily Walter, Ph.D.

8

***The Metabolite Profile of HER2-Positive Breast Cancer Cells***

**Sarah Abuelreich**, Malika Sahni, Krish Krishnan, Jason Bush

Jason Bush, Ph.D.

9

***Fabrication and Characterization of Lead Free Methyl Ammonium-Iodide Based Perovskite Solar Cells***

**David Martinez**, Randy Martinez

Sankha Banerjee, Ph.D.

10

***On Convergence of Recursively Defined Series***

**Jack Luong**, Josh Williamson

Tamas Forgacs, Ph.D.

# Poster Session II

University Business Center

Gottschalks Gallery

9:15 A.M. – 10:45 A.M.

11

***Building Biology Experts: A Longitudinal Analysis of Students' Attitudes and Knowledge in Majors' Biology Courses***

**Glen Martin**, Ivan Ceballos-Madrigal, Emily Walter

Emily Walter, Ph.D.

12

***Bacterial Endophytes in Parasitic Cuscuta Campestris and its Helianthus Annuus Host***

**Adam Avila**, Alieja White, Katherine Waselkov, John V. H. Constable, Mamta Rawat

John V.H. Constable, Ph.D.

13

***Volatility Modeling of the Foreign Exchange Rates under GARCH: A Comparison Between Frequentist and Bayesian Methods***

**Jalen Harris**, Diana Yeung, Christopher Newmark, Steve Chung

Steve Chung, Ph.D.

14

***Optimization of Gold-Catalyzed Cyclization of 2-alkynylthioanisole to 2-phenylbenzo[b]thiophene***

**Parveen Kaur**, Christopher D. Dillon

Hubert Muchalski, Ph.D.

15

***Associations Between Leadership Style and Employee Resistance to Change in a Healthcare Setting***

**Tanisha Garcia**

Mohammad Rahman, Ph.D.

# Poster Session II

University Business Center

Gottschalks Gallery

9:15 A.M. – 10:45 A.M.

16

*The Effect of Arousal and Valence on Risk Perception*

**Barbara Marques**

Martin Shapiro, Ph.D.

17

*Effective Treatment of Laboratory Mercury Waste Using Polymer made from Sulfur and Canola Oil*

**Hart Hedgpeth**, Melissa Sanchez, Jennifer Gomez, Hubert Muchalski, Eric Person

Eric Person, Ph.D.

18

*Rehabilitation of Groundwater Wells Decreases Microbial Community Diversity and Composition*

**Christian Cunningham**

Tricia Van Laar, Ph.D.

19

*Benefits of Peer Mentoring*

**Sonya Peña**

Albert Valencia, Ph.D.

20

*Cloud-Assisted Software Infrastructure for Wireless Body Area Networks*

**Joseph Reeves**, Ai Enkoji, Luis Salazar, Hunter Reilly

Ming Li, Ph.D.

# Poster Session II

University Business Center

Gottschalks Gallery

9:15 A.M. – 10:45 A.M.

21

***Barium Titanate-Based Three-Phase Energy Harvesting Composites***

**Yerli Cervantes**, Emma Van Fossen

Sankha Banerjee, Ph.D.

22

***Development of a Nanodrop Based Succinate dehydrogenase (SDH) assay for C. elegans, a Model for Plant Parasitic Nematodes***

**Braden Cardoza**, Gokhul Venkatesh Babu, Karine Gousset, Alejandro Calderon Urrea

Karine Gousset, Ph.D.

23

***The Chemical Changes of Third Hand Smoke with Ozone and OH radicals***

**Divine Yang**, Erik Rangel, Justin Vang, Tanner Melton, Alam Hasson, Krish Krishnan, Jason Bush

Alam Hasson, Ph.D.

24

***Soft Tissue Thickness Measurements Using Spectral Analysis in an L-shell X-Ray Fluorescence Lead Detection Method in Bone and Soft Tissue Phantoms***

**Summer Al-Hamdani**

Mihai Gherase, Ph.D.

25

***Indigenous Oaxaqueño Farmworkers Body Mapping Pesticide Exposure***

**Selina Santos**

Dvera Saxton, Ph.D.

# Poster Session II

University Business Center

Gottschalks Gallery

9:15 A.M. – 10:45 A.M.

26

***Effects of NMDA Receptor Antagonist MK-801 on the Neurotoxicity of BMAA in *Drosophila Melanogaster****

**Catherine Mueller, Joy J. Goto**

Joy Goto, Ph.D.

27

***Sucralose, a Commonly Used Artificial Sweetener Broadly Affects Enzyme Catalysis by Quantitative Nuclear Magnetic Resonance (qNMR) Approach***

**Justin Vang, Cheenou Her, Jaideep Singh**

Krish Krishnan, Ph.D.

28

***Effect of Tn Glycosylation on the Solution State Epitope Conformation of Mucin1***

**Jaideep Singh, Cheenou Her, Cory L. Brooks**

Krish Krishnan, Ph.D.

# Poster Session III

University Business Center

Gottschalks Gallery

11:00 A.M. – 12:30 P.M.

1

*Effects of Size and Age on Activity in Utricularia Australis Bladder Traps*

**Maxwell Hall**

Ulrike Müller, Ph.D.

2

*The Evolution of the "We Can Do It" Poster*

**Reina Aguirre**

Katherine Chilton, Ph.D.

3

*Phylogenetic Assessments for California's Highest Risk Mammals*

**Chris Jorgensen, Joshua Reece**

Joshua Reece, Ph.D.

4

*Stable Isotope Analysis of d15N in Juvenile Chinook Salmon*

**Gabriela Vang, Steve Blumenshine**

Steve Blumenshine, Ph.D.

5

*Similarities of Scoshe Armband Heart Rate Monitors and Polar E600 Chest Strap Monitors*

**Ryan Alvarez, Nicole Smith**

Nicole Smith, Ph.D.

# Poster Session III

University Business Center

Gottschalks Gallery

11:00 A.M. – 12:30 P.M.

6

***Electrical Aircraft and the Environment***

**Uyen Sou**

Nikos Mourtos, Ph.D.

7

***Visual Navigation in the Carpenter Ant *Camponotus Essigi****

**Reo Maynard**, Reina Warnert and David Lent

David Lent, Ph.D.

8

***An Overview of the Current Seismic Code Requirements for Buildings with Soft Stories***

**Nicole Mahoney**

Maryam Nazari, Ph.D.

9

***Examining Biomarkers in Aggressive Tumor Types of Thyroid Cancer***

**Jazmin Cheatham**

Jason Bush, Ph.D.

10

***Investigation of Cyber Attitudes***

**Daniel Kelley**

David Schuster, Ph.D.

# Poster Session III

University Business Center

Gottschalks Gallery

11:00 A.M. – 12:30 P.M.

11

***Examining Factors that Influence Signal Interruption: Configuration of the Heart Zones System for Indoor Physical Education Classes***

**Calixte Aholu**

Nicole Smith, Ph.D.

12

***Seismic Performance of Dome Shaped Structures***

**Milagros Verduzco, Mickey Chacon**

Arezoo Sadrinezhad, Ph.D.

13

***The Effects of Growing Inequality on Attitudes and Prosocial Behavior***

**Scott Stroud**

Martin Shapiro, Ph.D.

14

***Investigation of Metabolic Changes in a Neural Stem Cell Model After Gamma Irradiation***

**Maria Mendoza, Nicole Leon, Krish Krishnan, Dr. Jason Bush**

Jason Bush, Ph.D.

15

***Undocumented Queer Latinx Students: Testimonios of Survival***

**Maria Fernandez**

Maria Elena Cruz, Ph.D.



# Poster Session III

University Business Center

Gottschalks Gallery

11:00 A.M. – 12:30 P.M.

16

***Study of the Effect of BCL-2 Overexpression on Oxamate-induced Cytotoxicity in Prolymphocytes***

**Lucineh Kasnakjian**, Rebecca Alves

Laurent Dejean, Ph.D.

17

***Assessing Variation in Xylem Structure of Large and Small Stems of Helianthus Annuus***

**Alex Lopez**, Anna Jacobsen, R. Brandon Pratt, John V.H. Constable

John V.H. Constable, Ph.D.

18

***Ethnic Identity, Self-Esteem and Intragroup Conflict Amongst Latinos***

**Christian Arevalo**

Carlos Garcia, Ph.D.

19

***Relationship Between Coaches' Expectancies and Athletes' Mental Toughness in a High School Sport Setting***

**Anthony Perez**, Wade Gilbert, Jenelle Gilbert, Michael Coles

Wade Gilbert, Ph.D.

20

***Recreating the Modified Proctor for On-The-Field Applications***

**Jasdeep Sangha**

Arezoo Sadrinezhad, Ph.D.

# Poster Session III

University Business Center

Gottschalks Gallery

11:00 A.M. – 12:30 P.M.

21

***Modeling Visual Perception, Learning, and Memory of Wood Ants Navigating in Naturalistic Environments***

**Austin Mendoza**, David Lent

David Lent, Ph.D.

22

***Saving the Resistance: The Purépecha People of Northern Mexico***

**Maranyeli Estrada**

Maria Cruz, Ph.D. & Quincy McCrary, Ph.D.

23

***Physical Education in the U.S.: Systematic Observations of Physical Activity, Lesson Length, and Class Size***

**Nicole Smith**

Nicole Smith, Ph.D.

24

***Advancements in Higher Education for Latinos(as)/Chicanos(as)***

**Karina Chavez**

Patrick Cravalho, Ph.D.

25

***Characterization of Organic Chalcone 17 *Caenorhabditis elegans* Mutant***

**Tamar Melkonian**

Alejandro Calderon-Urrea, Ph.D.

# Poster Session III

University Business Center

Gottschalks Gallery

11:00 A.M. – 12:30 P.M.

26

***Evaluating the Impact of E-Cigarette Liquid on Lung Epithelial Cells***

**Daniel Ashley**, Shyam Patel, Jason Bush

Jason Bush, Ph.D.

27

***Finite Element Analysis of a Guideway for Automated Transit Networks***

**Isaac Gendler**

28

***Recycling of Si Based PV Solar Panels***

**Nikesh Pradhan**, Garrett R Bader, Luka M Drincic

Ajith Weerasinghe, Ph.D.

29

***DNA Sequencing Can Help Identify the Origin of Western Pond Turtles in Captive Breeding Programs***

**Rachel Morrow**, Christopher R. Jorgensen, Shelby P. Moshier, Joshua Reece

Joshua Reece, Ph.D.

# Poster Session IV

University Business Center

Gottschalks Gallery

12:45 P.M. – 2:15 P.M.

1

***Comparing Suction Feeders: Carnivorous Plants Versus Paedomorphic Salamanders***

**Fatima Hidalgo**, Stinson C.M., Berg O., Müller UK

Ulrike Müller, Ph.D.

2

***Masculinity and Attention to Health-Threat Information***

**Clarissa Sevillano**, Paul Price

Paul Price, Ph.D.

3

***Consumer Willingness to Incorporate Agretti in Their Food Bundle***

**John Ball**

Todd Lone, Ph.D.

4

***Characterization of the American Bushtit (*Psaltriparius minimus*) Nest Microbiota***

**Michael Castro**, Lee Nelson, John Crosbie, Tricia Van Laar

Tricia Van Laar, Ph.D.

5

***Bilingual Effects on Audiovisual Speech Perception in Noise***

**Brenna Mandujano**

Lorin Lachs, Ph.D.

# Poster Session IV

University Business Center

Gottschalks Gallery

12:45 P.M. – 2:15 P.M.

6

***The Interactions between the Dairy Industry and other Economic Sectors in California: An Example of Agriculture's Contribution to the Whole Economy***

**Emma Zacharias, Jiaochen Liang**

Jiaochen Liang, Ph.D.

7

***Developing a Better Understanding of Bax Structure-Function and Behavior in the Presence of Anti-Cancer Drugs***

**Jordan Friedlein, Itzel, Jorje, Alyssa**

Laurent Dejean, Ph.D.

8

***Child and Family Outcomes Related to Enrollment in Early Intervention***

**Jasmine Peña, Rhett Billen**

Rhett Billen, Ph.D.

9

***Global Expression Profiles of Low-Molecular Weight Thiol Mutants in Pseudomonas Aeruginosa, Staphylococcus Aureus, Synechococcus Elongatus PCC 7942, and Synechocystis PCC 6803***

**Jason Thomas, Mamta Rawat**

Mamta Rawat, Ph.D.

10

***MSW Students Attitudes Towards Incarcerated Individuals***

**Robert Secula**

Kris Clarke, Ph.D.

# Poster Session IV

University Business Center

Gottschalks Gallery

12:45 P.M. – 2:15 P.M.

12

***Investigating the Macroinvertebrate Skeletal Contributions to Devonian Carbonate Records: Contrasting Patterns at Different Spatial and Temporal Scales***

**Gabriel Valov**

Mara Brady, Ph.D.

13

***Selection vs Collection – Determining the Capture Success of Bladderwort Traps***

**Yevgeniy Mordvinov**, Maxwell R. Hall, and Ulrike Muller

Ulrike Muller, Ph.D.

14

***The Roles and Experiences of Sexual Assault Victim Advocates in Higher Education***

**Emily Heng**

Susana Hernandez, Ph.D.

15

***A Comparison of Varied Likert-type Scales on Student Response Characteristics***

**Alfonso Martinez**, Ronald Yockey

Ronald Yockey, Ph.D.

16

***Designing Chimeric YdeH Proteins to Produce c-di-GMP in High Quantities***

**Shristi Chand**

Hwan Youn, Ph.D.

17

***Reproductive Effects of Vaccines in Adult Female Swine***

**Jaycee Shugart**, Scott Williamson

Scott Williamson, Ph.D.

# Poster Session IV

University Business Center

Gottschalks Gallery

12:45 P.M. – 2:15 P.M.

18

***Dredge Deposition does not Affect Avian and Beach Macroinvertebrate Biodiversity in Morro Bay, California***

**Shelby P. Moshier**, Lexi J. Walker, Robert Seward, Rachel L. Morrow  
Joshua Reece, Ph.D.

19

***Engineering a Fused YdeH dimer with the Help of a Linker to Enhance the Production of c-di-GMP.***

**Akshay Gala**

Hwan Youn, Ph.D.

20

***Twenty By Twenty-Twenty: Where We Are and Where We're Going***

**Samantha Mallory**

Mara Brady, Ph.D.

21

***Indirect Effects of Climate Change on Vitellogenesis of Rocky Intertidal Porcelain Crab *P. cinctipes****

**Nathan Sayavong**, Jonathan H. Stillman, Alex R. Gunderson, Brian Tsukimura

Brian Tsukimura, Ph.D.

22

***Making Sense of Identity: How Predominantly White Fraternities and Sororities Engage in Racial Identity Development***

**Sophie Karas**

Susana Hernandez, Ph.D.

# Poster Session IV

University Business Center

Gottschalks Gallery

12:45 P.M. – 2:15 P.M.

23

***Risk Factors and Recruitment Methods that Contribute to the Commercial Sexual Exploitation of Children***

**Katherine Smith**

Debra Harris, Ph.D.

24

***The Role of Disturbance on San Joaquin River Macroinvertebrate Assemblages; Implications for Chinook Salmon Survival and Growth***

**Emily Ramirez, Steve Blumenshine**

Steve Blumenshine, Ph.D.

25

***A Comparative Study of Femoral Heads Between a 1995 and 2015 Genetic Line of Broilers***

**Zach Orfali, S. A. Orlowski, N. B. Anthony, K. J. Tarrant**

Katy Tarrant, Ph.D.

26

***Investigation of the Adipokine Profile in Different Adipose Tissue Depots from Patients with Coronary Artery Disease***

**Michael Smith**

Jason Bush, Ph.D.

27

***Agribusiness Students' Attitudes towards Service Learning: A Three Stage Adoption Framework***

**Pei Xu**



# Poster Session V

University Business Center

Gottschalks Gallery

2:30 P.M. – 4:00 P.M.

1

***Analysis of Surface and Ground Water Samples for Pharmaceuticals by LC-MS in the Fresno and Clovis Metropolitan Areas***

**Jameson Krauthammer**, Jaskiran Ghuman, Emily Sauls, Peter Akande

Derek Dormedy, Ph.D.

2

***Shear Strength Testing of Bio-Structured Soils for Improved Stability of Natural Slopes***

**Ryan Cardoza**

Lalita Oka, Ph.D.

3

***Can Metabolite Profiling help Explore what Causes the Small Genome in Bladderwort?***

**Eshan Bhardwaj**, Otto Berg, Ulrike K. Müller, John T. Bushoven

John T. Bushoven, Ph.D.

4

***The Effects of Non-Potable Water on the Gut Microbiota of Herbivores in the African Adventure Exhibit of the Chaffee Zoo***

**Emmanuel Flores**, Tricia Van Laar, Alejandro Calderon-Urrea, Scott Barton

Tricia Van Laar, Ph.D.

5

***Big Data Management in Smart Grids***

**Ujjwal Aima**

Kerry McBee, Ph.D.

# Poster Session V

University Business Center

Gottschalks Gallery

2:30 P.M. – 4:00 P.M.

6

***The Effectiveness of Vocal Hygiene Education on Decreasing At-Risk Vocal Behaviors in Vocal Performers***

**Kristi Tekerlek**, Fran Pomaville

Fran Pomaville, Ph.D.

7

***Electronic Conductivity of Alkane-thiolated Silver nanoparticles***

**Der Xiong**

Jai Pil Choi, Ph.D.

8

***Altered Mitochondrial Function in Dysfunctional Hybrid Nematodes***

**Marissa Rawson**, Emma Johnson

Laurent Dejean, Ph.D.

9

***Germination Rate and Glyphosate Resistance of Hairy Fleabane (*Erigeron bonariensis*) Under the 2017-2018 USDA-NIFA-NLGCA Research Internship***

**Diana Camarena Onofre**, Katherine Waselkov

Katherine Waselkov, Ph.D.

10

***A Comparative Study of Skeletal Integrity Between a 1995 and 2015 Genetic Line of Broilers***

**Rodrigo Lopez**

Katy Tarrant, Ph.D.

# Poster Session V

University Business Center

Gottschalks Gallery

2:30 P.M. – 4:00 P.M.

11

***“In vivo” Interactions Between BMAA and SOD1 in Drosophila Melanogaster Neuronal Cells***

**Marina Flores, Joy Goto**

Joy Goto, Ph.D.

12

***Parental Involvement and Second Generation Immigrant Adolescent Academic Success: A Phenomenological Study***

**Miu Yee Mimi Ho, Andrea Roach**

Andrea Roach, Ph.D.

13

***Pressure-Dependent Measurements of Criegee Intermediate and OH Radical in Alkene Ozonolysis***

**Vinay Kumar, Alam Hasson**

Alam Hasson, Ph.D.

14

***“Pretend You're Riding a Unicorn”: Accommodations for Children with Autism Spectrum Disorder in Medical Settings***

**Lilliana Toste**

Christine Maul, Ph.D.

15

***State-of-Charge Estimation of the Lithium-Ion Battery Using Neural Network Based on an Improved Thevenin Circuit Model***

**Haoliang Zhang**

Woonki Na, Ph.D.

# Poster Session V

University Business Center  
Gottschalks Gallery  
2:30 P.M. – 4:00 P.M.

16

***Synthesis Towards Advanced Intermediate for Enantiopure Hydnocarpin D***

**Alyssa Marie Rivera**, Pravien Rajaram

Qiao-Hong Chen, Ph.D.

17

***Design, Construction, and Evaluation of a Portable Spectrometer for Simultaneous Laser Absorption and Laser Induced Fluorescence Spectroscopy: Application in Chlorophyll Measurement***

**Stephen Richards**, Vinay Kumar, Jackson Wagner, Kin Ng

Kin Ng, Ph.D.

18

***Extended Day Length Affects Vitellogenesis in Porcelain crabs, *P. cinctipes****

**Madelyn Neufeld**, Jonathon H. Stillman, Alex R. Gunderson, Brian Tsukimura

Brian Tsukimura, Ph.D.

19

***Small Organic Molecules as Protein Modulators for Alzheimer's Therapy***

**Bhvandip Bajwa**, Prarthana Kumar, Inderpreet Bal, Byungwook Kim, Jungsu Kim, Santanu Maitra

Santanu Maitra, Ph.D.

20

***Impacts of Atmospheric Oxidation on the Cellular Toxicity of Cigarette Smoke***

**Tanner Melton**, Robyn Verhalen, Arjun Mann, Diving Yang, Katie Patterson, Alam Hasson, Jason Bush

Jason Bush, Ph.D.

# Poster Session V

University Business Center

Gottschalks Gallery

2:30 P.M. – 4:00 P.M.

21

***Needs Assessment: Evaluating Leadership Development Program and Curriculum Needs at California State University, Fresno***

**Abigail Carlson**, Avery Culbertson

Avery Culbertson, Ph.D.

22

***Computational Study of the Photodegradation Mechanisms of Pyrethroid Insecticides***

**Boris Rudolfs**

Kristina Closser, Ph.D.

23

***Envisioned Futures and Folk Theories of Success Among Rural and Urban Thai Adolescents***

**Cristina Landeros**, Rachel Castellon, Emma Willis, Joseph Rooney, Cassandra Stewart, Jessica McKenzie

Jessica McKenzie, Ph.D.

24

***Determination of the A $\beta$ 1-42 Structure in the Presence of  $\beta$ -Methylamino-L-Alanine***

**Benjamin Tanielian**

Joy Goto, Ph.D.

25

***The Effect of Ocean Acidification on the Growth and Development of Artemia Salina***

**Titus Patton**, Brian Tsukimura

Brian Tsukimura, Ph.D.

# Poster Session V

University Business Center

Gottschalks Gallery

2:30 P.M. – 4:00 P.M.

26

***Molecular Structure of FxFG Nucleoporin Peptides in Solution using Nuclear Magnetic (NMR) Spectroscopy***

**Angham Ahmed**, Jaideep Singh, Cheenou Her, and V.V. Krishnan

Krish Krishnan, Ph.D.

27

***The Solvent Effect on Amide Bond Resonance in DEET Analogs***

**Derek Morrelli**, Jacob Guerra, Bhvandip Bajwa, Prarthana Kumar, Krish Krishnan, Santanu Maitra

Santanu Maitra, Ph.D.

# Poster Session VI

University Business Center

Gottschalks Gallery

4:15 P.M. – 5:45 P.M.

1

***Examining Faculty Perceptions on Providing Instructional Services to Deaf and Hard of Hearing Students***

**Jacquelyn Rubalcaba**

Susan Tracz, Ph.D.

2

***Predictors of Success in Doctoral Programs: Race, Gender, and Educational History***

**Ashlan Chavez, M.A**, Khushminder Zenda, Jamila Taylor, Bao Her, Ashlee Reid

Debra Bekerian, Ph.D.

3

***Humanization by Germline CDR Grafting of a MUC16 Specific Monoclonal Antibody for the Treatment of Pancreatic Cancer***

**Brandy White**, Demi Ayala

Cory Brooks, Ph.D.

4

***Characterization of Motor Deficits from Expression of Mutant Alpha-Synuclein in Parkinson's Disease Model Drosophila Melanogaster***

**Abu Taha**, Antonio Diaz

David Lent, Ph.D.

5

***Noncanonical Feedback Inhibition Site of DgcZ are Functional***

**Yue Zhou**

Hwan Youn, Ph.D.

# Poster Session VI

University Business Center  
Gottschalks Gallery  
4:15 P.M. – 5:45 P.M.

6

***Yield-Fertilizer Response Curves for Lettuce Grown with Four Different Organic Formulations***

**Anthony Isaacs Venegas**, T. Thao, J. Robles, D. Goorahoo and F. Cassel S.

Dave Goorahoo, Ph.D.

7

***Synthesis of benzo[b]thiophenes Catalyzed by gold(I)-IPr-Cl Complex***

**Melissa Sanchez**, Alison Phasakda, Hubert Muchalski

Hubert Muchalski, Ph.D.

8

***Mixed Methods Investigation of Student Learning Outcomes from Zoo Inquiry Projects in Introductory Chemistry Laboratories***

**Jordyn Kamitono**

Dermot Donnelly, Ph.D.

9

***Exploring the Experiences of Hmong Graduate Students at Fresno State***

**Shur Lee**

Christian Wandeler, Ph.D.

10

***Predictors of Attrition and Success in Doctoral Programs: Ethnicity, Age, Gender, Leave of Absence, and Educational History***

**Kimberly Legh-Page**, Christian Jackson, Matthew St. Martin, Mishael Ozed-Williams, Justin Smith

Debra Bekerian, Ph.D.



# Poster Session VI

University Business Center

Gottschalks Gallery

4:15 P.M. – 5:45 P.M.

11

***Educational Videos' Influence on College Students Regarding New California Sex Offender Law***

**Eric Galeana**

Allen Azizian, Ph.D.

12

***Investigation of the Role of Translational and Rotational Motions on the Keto and Enol Tautomer Equilibrium of Acetylacetone in a Binary Solvent Mixture***

**Candice Cortney, Krish Krishnan**

Krish Krishnan, Ph.D.

13

***Effects of Aluminum Exposure on Learning and Memory in *Drosophila Melanogaster****

**Angelina Stone, David D Lent**

David D Lent, Ph.D.

14

***Soil Physical Properties Under Long-Term No-till and Cover Crop Management in California's San Joaquin Valley***

**Aldo Garcia, Anil Shrestha, Jeffrey Mitchell**

Anil Shrestha, Ph.D.

15

***Protein Expression and Structural Characterization of Potential Anticancer Peptides from Ancient Grains - Lunasin***

**Jaideep Singh, Cory L. Brooks**

Krish Krishnan, Ph.D.

# Poster Session VI

University Business Center

Gottschalks Gallery

4:15 P.M. – 5:45 P.M.

16

***Characterizing the Expression of Candidate Genes for Herbicide Resistance in the Agricultural Weed Hairy Fleabane (*Erigeron bonariensis*)***

**Priyanka Chaudhari**, Diana Camarena, Katherine Waselkov

Katherine Waselkov, Ph.D.

17

***“It’s Out of Respect to Each Other”: Examining Young People’s Social Media Use in Relationships Through a Psychosocial Framework***

**Jasmine De La Torre**, Aimee Rickman

Aimee Rickman, Ph.D.

18

***Amide Bond Modulation: Cyclic Amines and Manipulating Energy Landscapes for Conformational Preferences Using Deet Analogs as a Model System***

**Jacob Guerra**

Santanu Maitra, Ph.D.

19

***Predictors of Success: Military Students in Doctoral Programs***

**Geni Perryment**, Leticia Quezada

Debra Bekerian, Ph.D.

20

***A Quantitative Analysis of Middle College High Schools on College Readiness for Underrepresented Students***

**Robert Pimentel**

Christian Wandeler, Ph.D.

# Poster Session VI

University Business Center

Gottschalks Gallery

4:15 P.M. – 5:45 P.M.

21

***Identification of Amino Acid Residues Important for Stabilising the Inactive Form of CRP.***

**Krishna Sonpal**

Hwan Youn, Ph.D.

22

***The Propensity of Molecular Aggregation Using Custom Designed Peptides: Synthesis and Characterization Using NMR Spectroscopy.***

**Tess Hernandez, Carly Robinson, Caleb Iness, V. V. Krishnan, and Kalyani Maitra**

Kalyani Maitra, Ph.D.

23

***Media in the Family: Globalization Reshapes Lives and Relationships of Adolescent-Parent Dyads in Northern Thailand***

**Joseph Rooney, Cassandra Stewart, Rachel Castellon, Cristina Landeros, Emma Willis & Jessica McKenzie**

Jessica McKenzie, Ph.D.

24

***Effects of Beta-Methylamino-L-Alanine on the Structural Properties of Copper-Zinc Superoxide Dismutase***

**Mike Jian, Joy Goto**

Joy Goto, Ph.D.

25

***Coexistence of BRAF V600E and TERT Promoter Mutations in Low-grade Serous Carcinoma of Ovary Recurring as Carcinosarcoma in a Lymph Node: Report of a Case***

**Mahkam Tavallaee, David F. Steiner, James L. Zehnder, Ann K. Folkins, Amer K. Karam**

Ann Folkins, Ph.D.

# Poster Session VI

University Business Center

Gottschalks Gallery

4:15 P.M. – 5:45 P.M.

26

***An Analysis of Clinician Perspectives, Attitudes and Beliefs: Best Practices of Mental Health Services for African Americans***

**Tiffany White**, Susan Tracz, Alicia Becton-Brown, Francine Oputa and Christina Luna

Susan Tracz, Ph.D.

27

***The Readability of Online Patient Education Materials from Major Obstetrics and Gynecology Societies***

**Fatimah Fahimuddin**, Sanam Sidhu; Anubhav Agrawal

Anubhav Agrawal, Ph.D.

# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

1

*Assessment of RSV Infection Risk and Prevention Knowledge of Nursing Students*

**Prabhjot Badhesha**

Kathleen Rindahl, Ph.D.

2

*Prostate Cancer & African American Men*

**Spencer Brantle**

Peter Garcia, Ph.D.

3

*Locations Where Community Dwelling Older Adults are More Likely to Fall*

**Brandalyn Chang**

Kathleen Rindahl, Ph.D.

4

*Improving Future Primary Care Provider's Knowledge on Proper Obesity Education and Treatment Options*

**Jordan Cutts**

Cynthia Guerra, Ph.D.

5

*Integration of Non-Pharmacological Pain Management in Patients with Chronic Pain*

**Lily Darpli**

Cynthia Guerra, Ph.D.

# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

6

***An Exploratory Study of the Safety of Online Direct to Consumer Telehealth Programs for Consumers***

**Julie de Jesus**

Kammi Sayaseng, Ph.D.

7

***Screen Time Anticipatory Guidance in Children Zero to Three Years Old: An Evaluation of Nurse Practitioner Students' Knowledge Base***

**Jill Faulkner**

Kammi Sayaseng, Ph.D.

8

***Diabetes Type II and the Primary Care Provider***

**Nimool Garcia**

Lynn Jacobs, Ph.D.

9

***Educators Comfort with Epinephrine Administration***

**Jamie Garrett**

Peter Garcia, Ph.D.

10

***Attitudes and Experiences of Medical Providers When Using a Language Interpreter***

**Carolyn Gress**

Kammi Sayaseng, Ph.D.

# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

11

***Reducing Polypharmacy with Safe Medication Management Education for Elderly Patients: Using M.U.S.T. Interactive Program***

**Christina Harris**

Lynn Jakobs, Ph.D.

12

***Breast Cancer Screening Rate in Hmong Women Ages 40 to 74 Years at Mountain Family Healthcare Center, a Retrospective Descriptive Study***

**Maybo Heu**

Kammi Sayaseng, Ph.D.

13

***Female Patient's Comfort Level of Discussing Sexual Health with Healthcare Provider***

**Ji Kwon**

Peter Garcia, Ph.D.

14

***Overcoming Language Barriers***

**Sia Lee**

Janine Spencer, Ph.D.

15

***Coccidioidomycosis: A Qualitative Descriptive Study on Knowledge Base of the Family Nurse Practitioner (FNP) Students at Fresno State***

**Tou Lee**

Kammi Sayaseng, Ph.D.

# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

16

***Combatting Physical Inactivity: The Key is in the Palm of your Hand***

**Taralyn Liebel**

Janine Spencer, Ph.D.

17

***Patient Satisfaction among Mental Health Patients with their Mental Health Care Providers***

**Ger Moua**

Janine Spencer, Ph.D.

18

***E-Cigarettes and Primary Health: A Teaching Module for NP Students***

**Ivan Munoz**

Cyndi Guerra, Ph.D.

19

***Admission Rates of Hmong in Hospice***

**Shoua Nelson**

Lynn Jakobs, Ph.D.

20

***Early Development in Infants with Intrauterine Drug Exposure***

**Jennifer Nelson**

Kathleen Rindahl, Ph.D.



# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

21

***Mentoring Nurse Practitioners: The Effect on Job Satisfaction and Self-Efficacy, A Correlational Descriptive Study***

**Jennifer Ruch**

Kammi Sayaseng, Ph.D.

22

***Post-Discharge Follow-Up in the Adult Trauma Patient Population: Correlations Between Clinic Attendance and Factors Related to Mechanism and Severity of Injury, Hospital Stay, and Patient Demographics***

**Talia Shuman**

Peter Garcia, Ph.D.

23

***Perception of Barrier to Influenza Vaccine Among Hmong Adult in California***

**Mai Nhia Thao**

Cyndi Guerra, Ph.D.

24

***Food Insecurity: Prevention and Awareness for College Freshmen Students***

**Jessica Tran**

Kathleen Rindahl, Ph.D.

25

***Educating Future Nurses About why Some Parents Refuse to Vaccinate Their Children***

**Erika Varney**

Janine Spencer, Ph.D.

# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

26

***Identifying Correlations of Obesity and Socioeconomic factors to Formulate a NP Practice Algorithm in the Primary Care Setting***

**Carlye Ward**

Peter Garcia, Ph.D.

27

***Gastric Cancer Among the Hmong Population***

**Sheng Yang**

Janine Spencer, Ph.D.

28

***Asthma in the Pediatric Population: A Teaching Module***

**Erin Grosz**

Kammi Sayaseng, Ph.D.

29

***Identifying Barriers to Health Care in Low-Income Families in the Rural Community of Pixley***

**Maria Celia Cisneros**

Kammi Sayaseng, Ph.D.

30

***Ramifications of Nurse Bullying, Incivility, and Workplace Violence***

**Jenina Chan**

Peter Garcia, Ph.D.

# Poster Session VII

University Business Center

Gottschalks Gallery

6:00 P.M. – 7:00 P.M.

31

***Correlation between Driveline Infections and Depressive Symptoms in Adult Patients with V.A.D. in Fresno: A Retrospective Study***

**Kara Merritt**

Lynn Jacobs, Ph.D.

32

***The Public Health Nursing Shortage: An Investigation of Contributing Factors and Strategies for Resolution***

**Kathleen Kelley**

Peter Garcia, Ph.D.

33

***The Education of Future Nurse Practitioners on How to Combat the Childhood Obesity Epidemic***

**Brittany Perez**

Ndidi Griffin-Myers, Ph.D.

34

***Food Label Literacy Amongst Women with Hypertension of East Indian Origin***

**Satwant Sekhon**

Janine Spencer, Ph.D.