

Poster Presentations (*student researcher)

1. A Circadian Pathway to Better Beef?

Javier Ramirez^{1*}, Andrew Steele², Amanda McKeith³, Cord Brundage¹, Hyungchul Han¹, and Juanita Jellyman²

¹Department of Animal and Veterinary Sciences and ²Department of Biological Sciences, Cal Poly Pomona, and ³California State University, Fresno

2. A Two-Step Oxidative Cleavage of Lignin Models for Producing Aromatic Chemicals

Alexander A. Cartolano*, Jasper Dang*, Paula M. Magat*, Pauline H. Cho* and Alex John
Department of Chemistry and Biochemistry, Cal Poly Pomona

3. Avian Functional Trait Diversity in a Heterogenous Agroecosystem

Christian Cormier^{1*}, Rachel Bockrath^{2*}, and Elizabeth Scordato¹

¹Department of Biological Sciences, Cal Poly Pomona, and ²Department of Biological Sciences, North Dakota State University

4. Bovine Neutrophils Kill *Tritrichomonas foetus* Using Trogocytosis

Jonathan Najera*, Bryan Ramirez Reyes*, Ashley D. Ramirez*, Juanita K. Jellyman, and Frances Mercer

Department of Biological Sciences, Cal Poly Pomona

5. Determine the Effect of Annual Forages on Performance of Yearling Calves

Kristin Tena*, Hyungchul Han, and Ondieki Gekara.

Department of Animal and Veterinary Sciences, Cal Poly Pomona

6. Development and Optimization of a Novel Water Disinfection System

Ziyu Zhang^{1*}, Arnel S. Mariano^{1*}, Victor Ornelas^{1*}, Y. Olive Li¹, Mingheng Li², Wei-Jen Lin³, and Xu Yang¹

¹Department of Nutrition and Food Science, ²Department of Chemical and Materials Engineering, and ³Department of Biological Sciences, Cal Poly Pomona

7. Embedding Nostalgia in Consumer Communication to Enhance Acceptance of “Ugly” Produce

Yi (Fionna) Xie¹, Yanfen You³, Olive Li², and Xu Yang²

¹Department of Agribusiness and Food Industry Management, ²Department of Nutrition and Food Science, Cal Poly Pomona, and ³Department of Marketing, University of Massachusetts Amherst

8. Empowering Healthy Choices: Enhancing Fresh Produce Intake in Southern California Communities through USDA SNAP Toolkit Innovation

Emily J Kiresich

Department of Nutrition and Food Science, Cal Poly Pomona

9. Encapsulation of Hesperetin, an Aglycone Polyphenol from Orange Pomace, in Zein/Pectin Nanoparticles

Arnel Mariano^{1*}, Shuting Chen^{1*}, Yao Olive Li¹, and Gabriel Davidov-Pardo¹

¹Department of Nutrition and Food Science, Cal Poly Pomona

10. Evaluating Antimicrobial Effects of Orange Pomace Polyphenols on Common Food Pathogens

Jack Antich^{1*}, Jane Wangjaya^{2*}, Wei-Jen Lin¹, and Yao Olive Li²

¹Department of Biological Sciences and ²Department of Nutrition and Food Science, Cal Poly Pomona

11. Evaluating the Formation and Effect of Maillard Conjugation of Dextran and ϵ -PL at Different Ratios

Shuting Chen*, and Gabriel Davidov-Pardo

Department of Nutrition and Food Science, Cal Poly Pomona

12. Identification of Cultural Inputs and Genetic Loci That Induce Root Biomass in Lettuce When Grown Under Low Nitrogen

Connor Soderstrom^{1*}, Samuel Morales^{1*}, Sophia Ramirez^{2*}, Caden Nihart^{3*}, Aldo Romero^{1*}, Chris Kinyon^{4*}, Jenesis Perez^{2*}, Trevor Blakey^{5*}, Kali Hamed^{6*}, Youngsook You⁷, and David W Still⁷

¹Department of Plant Sciences, ²Department of Biological Sciences, ³Department of Electrical and Computer Engineering, ⁴Department of Aerospace Engineering, Cal Poly Pomona, ⁵Department of Biology, Mt. San Antonio College, ⁶Department of Computer Science, Cal Poly Pomona, and ⁷California State University Agricultural Research Institute

13. Impact of Enzymatic Hydrolysis of Almond Protein on Its Functional Characteristics

Yutian Li*, Harmit Singh, Gabriel Davidov, and Belal Hasan

Department of Nutrition and Food Science, Cal Poly Pomona

14. Improving Water and Nitrogen Use Efficiency in Lettuce by Selecting for Root Characteristics

Connor Soderstrom^{1*}, Samuel Morales^{1*}, Justin Medina^{2*}, Caden Nihart^{3*}, Aldo Romero^{1*}, Sophia Ramirez^{2*}, Chris Kinyon^{4*}, Jenesis Perez^{2*}, Trevor Blakey^{5*}, Kali Hamed^{6*}, Youngsook You⁷, and David W Still⁷

¹Department of Plant Sciences, ²Department of Biological Sciences, ³Department of Electrical and Computer Engineering, ⁴Department of Aerospace Engineering, Cal Poly Pomona, ⁵Department of Biology, Mt. San Antonio College, ⁶Department of Computer Science, Cal Poly Pomona, and ⁷California State University Agricultural Research Institute

15. Innovative Alternatives to Antibiotics to Prevent and Treat Avian Colibacillosis

Meera Kelley*, Cooper Bennett*, Victor Perez*, Andrea Sanabria*, and Junjun Liu

Department of Biological Sciences, Cal Poly Pomona

16. Integrating Cover Crops on Small-Scale Southern California Farms, Opportunities and Challenges

O. Pandora Mondragon^{1*}, Kenneth Ng^{1*}, Whitney Doyle^{1,2*}, Zachary Aceves^{1*}, Kevin Corona^{1*}, Adrian Rios^{1*}, Aaron F. Fox¹, Hossein Zakeri², and Kyle Brasier²

¹Department of Plant Science, Cal Poly Pomona, and ²College of Agriculture, Chico State University

17. Investigation of the Bovine Neutrophil Response to STI Parasite *Trichostrongylus axei*

Michael Berry*, Juanita K Jellyman, and Frances Mercer

Department of Biological Sciences, Cal Poly Pomona

18. Investigation on the Detection of Powdery Mildew in Grapes Using a UAV-Based Hyperspectral Sensing

Michael Acosta^{1*}, Jonathan Pena^{1*}, Ardavan Sherafat^{1*}, Cristobal Gonzalez^{2*}, Subodh Bhandari³, and Amar Raheja¹

¹Department of Computer Science, Department of Plant Science, and ³Department of Aerospace Engineering, Cal Poly Pomona

19. Nickel Catalysts for Mitigating Denitrification and Agricultural Pollution

Jessica De La Huerta^{1*}, and S. Chantal E. Stieber^{1*}

¹Department of Chemistry & Biochemistry, Cal Poly Pomona

20. Piloting Blockchain Technology for Food Safety and Supply Chain Transparency

Nhi Nguyen^{1*}, Jon C. Phillips², and Honggang Wang³

¹Department of Computer Science, ²Department of Agribusiness & Food Industry Management/Agricultural Science, and ³Department of Technology and Operations Management, Cal Poly Pomona

21. Studies Towards Development of POC Devices for Detecting Citrus Fungicides and HLB Using LFA and LAMP Platforms

Xuyao Yuan^{1*}, Paula Truong^{1*}, Jocelyn Downs^{1*}, Michelle Camarena-Villeda^{1*}, Chandrika Ramadugu², and Sean Liu¹

¹Department of Chemistry, Cal Poly Pomona, and ²Agricultural Experiment Station and Cooperative Extension, UC Riverside

22. The Developmental and Molecular Analysis of Carpels Pre- and Post-Fertilization in *Aquilegia*

Mankirat K Pandher^{1*}, Ana Alcaraz Echeveste^{1*}, Rene K Romo^{1*}, Marianellie Bravo^{1*}, Rakesh Kaundal², and Bharti Sharma¹

¹Department of Biological Sciences, Cal Poly Pomona, and ²Department of Plants, Soils, and Climate, and Bioinformatics Facility, Center for Integrated BioSystems, Utah State University, Logan

23. The Utilization of Bacteriophage as a Biocontrol Agent to Proactively Prevent *Escherichia coli* in Microgreen Cultivations

Zhe Zhang^{1*}, Eileen Cullen², and Xu Yang¹

¹Department of Nutrition and Food Science and ²Department of Plant Science, Cal Poly Pomona

24. Utilization of Almond byproduct for Textile Coloration

Myunggyo Yu*, and Jiangning Che

Department of Apparel Merchandising and Management, Cal Poly Pomona

25. Wearable Sensors to Record Cattle Fly-Repelling Behavior

Juanita K. Jellyman¹, Alec Gerry², Caleb Hubbard², Eamonn Keogh³, and Amy Murillo²

¹Department of Biological Sciences, Cal Poly Pomona, and ²Departments of Entomology and ³Computer Science, University of California, Riverside

26. Weed Detection and Localization from UAVs Using Machine Learning and Stereovision Techniques

Derek Triska^{1*}, Dennis Ureyu^{1*}, Eduardo Castro Becera^{1*}, Mark Haddad^{1*}, Subodh Bhandari², and Amar Raheja¹

¹Department of Computer Science and ²Department of Aerospace Engineering, Cal Poly Pomona