

# ONE HEALTH

EDUCATION CONFERENCE  
ON ONE HEALTH FOR FOOD SAFETY,  
AGRICULTURE, AND ANIMAL HEALTH

**CONFERENCE SCHEDULE**

**AUGUST 1 - 12, 2022**

**EDUCATION CONFERENCE ON ONE HEALTH FOR FOOD SAFETY, AGRICULTURE, AND ANIMAL HEALTH**

HOSTED BY: UNIVERSITY OF CALIFORNIA, DAVIS | WESTERN INSTITUTE FOR FOOD SAFETY & SECURITY

CO-HOSTED BY: CHINA AGRICULTURAL UNIVERSITY | COLLEGE OF VETERINARY MEDICINE

The 2022 UC Davis Education Conference on One Health for Food Safety, Agriculture, and Animal Health being held online, August 1 – 12, 2022, provides an in-depth educational experience for participants to learn about the importance of applying a One Health approach to solving problems concerning food safety and security, and animal health. The 2022 summer online conference is co-hosted by the College of Veterinary Medicine, China Agricultural University, a top ranked key national university in China. One Health takes an interdisciplinary approach to solving specific, complex problems that arise at the interface of animals, humans, and the environment. Collaboration among professionals with diverse specializations is a necessary condition of One Health problem solving. The comprehensive program includes lectures, virtual field trips, and team-building exercises which increase the participants awareness of taking a multidisciplinary approach to solving complex problems concerning the health of people, animals, and the environment. This One Health approach to solving problems is critical in promoting progress towards safer, better quality food systems and healthy animals on our planet. UC Davis WIFSS One Health conferences provide an in-depth educational experience for undergraduate and graduate students around the globe to learn about the importance of applying a One Health approach to solving specific, complex problems that arise at the interface of people, animals, and the environment.

At this 2-week online conference participants will interface with respected professors from UC Davis's School of Veterinary Medicine and the College of Agricultural and Environmental Sciences, as well as professors from China Agricultural University and other universities around the world. We are pleased to have CAU taking a lead within China along with UC Davis to promote this globally important initiative to improve the health of animals, people, and the environment. In addition to lectures, participants will take part in team building exercises led by experienced subject matter experts and graduate students from UC Davis. Students from agricultural and veterinary colleges throughout the world will have the chance to work together on team-building activities and build friendships through problem-based learning projects.

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 8:55 a.m.	All	Welcome and Introduction of One Health	Dr. Bennie Osburn Director, Outreach and Training, Western Institute for Food Safety and Security, Dean Emeritus, School of Veterinary Medicine, University of California, Davis
8:55 – 9:50 a.m.	All	Welcome and Overview of One Health Research and Education at China Agricultural University	Dr. Jun Han Professor and Associate Dean for Research and International Communications of College of Veterinary Medicine, China Agricultural University
9:50 – 11:00 a.m.	All	The Power of One	Ms. Chris Brunner Communications and International Programs Director, Western Institute for Food Safety and Security, University of California, Davis
11:00 a.m.– 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
1:00 – 2:00 p.m.	Graduate & Undergraduate Students	<b>Teamwork 1 Discussion Session</b> Meet your Team. Introduction of One Health Case Study – Learn How the One Health Approach Solves the Problem. Exploring the Problem and Finding Resources to Research the Problem.	UC Davis Facilitators: June Barrera, DVM, MPVM Peerawat Chintrakulchai, PhD Student in Epidemiology Margaux Ocampo, Pharmaceutical Chemistry Research Assistant Serene Liu, PhD Student in Epidemiology Ryan Jung, MPH Student Jose Pablo Gomez, DVM, MPVM, PhD Shadira Gordon, PhD Student in Epidemiology Carla Castro, Undergraduate in Human Biology Alseema Alemayehu, Undergraduate in Human Biology & Public Health Cesar Herraiz Fernandez, PhD Student in Epidemiology and Emerging Disease Control

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
2:00 – 2:15 p.m.	All	Genetic Evolution and Biological Characteristics of H5Ny Highly Pathogenic Avian Influenza Virus in Eastern China	Ruyi Gao Postdoctoral Researcher, College of Veterinary Medicine, Yangzhou University
2:15 – 2:30 p.m.	All	Genetic Analysis and Biological Characteristics of Novel Zoonotic Avian Influenza Viruses with S Genotype H9N2 Internal Gene Cassette	Zhuxing Ji PhD Candidate, College of Veterinary Medicine, Yangzhou University
2:30 – 2:45 p.m.	All	Genetics and Evolution of H7N9 Subtype Avian Influenza Viruses in China from 2013 to 2021	Xiyue Wang Master Candidate, College of Veterinary Medicine, Yangzhou University
2:45 – 3:00 p.m.	All	The Study of HCoV-229E Neutralizing Antibody	Jiale Shi PhD Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University



TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	Introduction of Problem-Based Learning and Overview of One Health Poster Project	Ms. Heather Johnson Instructional Designer, Western Institute for Food Safety and Security, University of California Davis
9:00 – 10:00 a.m.	All	ASF Prevention and Control Practices in Asia and Pacific Countries	Dr. Zhen Yang Associate Professor, College of Veterinary Medicine, Nanjing Agricultural University
10:00 – 11:00 a.m.	All	Public Health Leadership in Coordinating a One Health Approach to Preventing and Preparing for Pandemics Stemming from Novel, Emerging Zoonotic Diseases	Dr. Marguerite Pappaioanou Affiliate Professor and Associate Director, Center for One Health Research, Department of Environmental and Occupational Health Sciences, School of Public Health, University of Washington
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
1:00 – 2:00 p.m.	Graduate & Undergraduate Students	<b>Teamwork 2 Discussion Session</b> Building an Interdisciplinary Collaboration Group - Emphasizing Interdisciplinary Cooperation, which is an Approach to Address Public Safety Issues	<u>UC Davis Facilitators:</u> June Barrera, DVM, MPVM Peerawat Chintrakulchai, PhD Student in Epidemiology Margaux Ocampo, Pharmaceutical Chemistry Research Assistant Serene Liu, PhD Student in Epidemiology Ryan Jung, MPH Student Jose Pablo Gomez, DVM, MPVM, PhD Shadira Gordon, PhD Student in Epidemiology Carla Castro, Undergraduate in Human Biology Alseema Alemayehu, Undergraduate in Human Biology & Public Health Cesar Herraiz Fernandez, PhD Student in Epidemiology and Emerging Disease Control
2:00 – 2:15 p.m.	All	Essential Role of Viral Tegument Protein UL13 in Modulation of Pseudorabies Virus Immune Evasion	Lu Li Master Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University
2:15 – 2:30 p.m.	All	PRRSV Structural Protein GP3 Inhibits Claudin 4 Mechanism of Promoting Early Infection by Porcine Reproductive and Respiratory Syndrome Virus	Guofei Ding PhD Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University
2:30 – 2:45 p.m.	All	Overview of African Swine Fever Virus and the Study of Structure and Function of Its Structural Protein P15	Yilin Guo PhD Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University
2:45 – 3:00 p.m.	All	Effects of ZEA on Structural and Functional Proteins of MAMs in Piglet SCs.	Ma Li Master Candidate, College of Animal Science and Technology, Anhui Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	Emerging and Re-emerging Diseases in Cultured Tilapia	Dr. Esteban Soto Martinez Professor, Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis
9:00 – 10:00 a.m.	All	From Farm to Table – Identifying Potential Pathogen Outbreaks Along the Food Chain	Mr. David Goldenberg Food Safety and Security Training Coordinator, Western Institute for Food Safety and Security, University of California, Davis
10:00 – 11:00 a.m.	All	Communicating Scientific Research to the Public	Mr. Gregory Wlasiuk, E-Learning Curriculum Designer; and Ms. Heather Johnson, Instructional Systems Designer, UC Davis Western Institute for Food Safety and Security
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
1:00 – 2:00 p.m.	All	One Health-Big Data Sharing	Dr. June Barrera DVM, MPVM Candidate, School of Veterinary Medicine, University of California, Davis
2:00 – 2:15 p.m.	All	New Insights into the Function of Plant Tannase as Hydrolase and Acyltransferase for Promoting the Biosynthesis of Galloylated Derivatives	Yifan Chen PhD Candidate, School of Tea and Food Science and Technology, Anhui Agricultural University
2:15 – 2:30 p.m.	All	The Transport of Alkaloids in Beverage Plants (Tea, Coffee, and Cocoa): Potential Mechanism and Perspectives	Yuanyuan Luo PhD Candidate, School of Tea and Food Science and Technology, Anhui Agricultural University
2:30 – 2:45 p.m.	All	Multi-omics Analysis Reveals the Metabolic Response of Tea Plant ( <i>Camellia sinensis</i> L.) under Thiamethoxam Stress	Ping Zhang Master Candidate, College of Resources and Environment, Anhui Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	Overview of Epidemiology Outbreak Investigation	Dr. Beatriz Martínez-López Professor, Department of Medicine & Epidemiology, School of Veterinary Medicine University of California, Davis
9:00 – 10:00 a.m.	All	Overview of Small Animal Orthopedic Surgery	Dr. Po-Yen Chou Associate Professor, Department of Surgical and Radiological Sciences, School of Veterinary Medicine, University of California, Davis
10:00 – 11:00 a.m.	All	One Health Poster Review	Graduate and Undergraduate Student Teams and UC Davis Facilitators
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
12:00 – 1:00 p.m.	Faculty	What Steps Need to be Considered for a Problem-Based Model for One Health	Dr. Bennie Osburn Director, Outreach and Training, Western Institute for Food Safety and Security, Dean Emeritus, School of Veterinary Medicine, University of California, Davis
2:00 – 2:15 p.m.	All	Characterization of the Protective Efficiency Against QX Strain of a Recombinant Infectious Bronchitis Virus with H120 Background and QX Spike Gene	Wenlian Weng PhD Candidate, College of Veterinary Medicine, China Agricultural University
2:15 – 2:30 p.m.	All	The p72 Promoter-driven Luciferase Reporter System Identifies Compound A as a Potential Broad Spectrum Antiviral Drug	Yuhang Zhang PhD Candidate, College of Veterinary Medicine, Hunan Agricultural University



TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	NARMS Surveillance of Antimicrobial Resistance in Retail Foods in California	Dr. Xunde Li Researcher, Department Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis
9:00 – 10:00 a.m.	All	A “Bad Metal” Primer: Examples of Metals that Pollute Our Environment and Adversely Affect Human and Animal Health	Dr. Robert Poppenga Professor, California Animal Health and Food Safety Laboratory and Department of Molecular Biosciences, School of Veterinary Medicine, University of California, Davis
10:00 – 11:00 a.m.	All	One Health Approach for Exploring the Emergence and Spread of Resistances Against Last-resort Antibiotics	Dr. Yang Wang Professor and Vice Head of Section of Antimicrobial Resistance in Bacteria of Animal, Human and Environment Origin, College of Veterinary Medicine, China Agricultural University
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
1:00 – 2:00 p.m.	Graduate & Undergraduate Students	<b>Teamwork 3 Discussion Session</b> Structure of the Final Presentation – Determining One Health Issue, the Approach to Address the Problem, and the Short-term and Long-term Solutions	<u>UC Davis Facilitators:</u> June Barrera, DVM, MPVM Peerawat Chintrakulchai, PhD Student in Epidemiology Margaux Ocampo, Pharmaceutical Chemistry Research Assistant Serene Liu, PhD Student in Epidemiology Ryan Jung, MPH Student Jose Pablo Gomez, DVM, MPVM, PhD Shadira Gordon, PhD Student in Epidemiology Carla Castro, Undergraduate in Human Biology Alseema Alemayehu, Undergraduate in Human Biology & Public Health Cesar Herraiz Fernandez, PhD Student in Epidemiology and Emerging Disease Control
2:00 – 2:15 p.m.	All	Screening of Antibiotic Substitutes and Inhibitors of Drug Resistance Related Enzymes Based on Network Pharmacology	Jinde Liu Master Candidate, College of Animal Science and Technology, Anhui Agricultural University
2:15 – 2:30 p.m.	All	Adsorption and Mechanism of Fluoroquinolone Antibiotics in Water by Controllable MOFs	Fei Fang Master Candidate, College of Resources and Environment, Anhui Agricultural University
2:30 – 2:45 p.m.	All	Antimicrobial Use and Antimicrobial Resistance in Pathogens Associated with Diarrhea and Pneumonia in Dairy Calves	Xia Yi Master Candidate, College of Veterinary Medicine, China Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	Salmonella as a One Health Zoonotic Pathogen	Dr. Maurice Pitesky Associate Specialist in Cooperative Extension, Department of Population, Health and Reproduction, School of Veterinary Medicine, University of California, Davis
9:00 – 10:00 a.m.	All	Air Quality and Animal Farms: Impacts and Mitigation	Dr. Hamed El-Mashad Staff Research Associate, College of Biological and Agricultural Engineering, University of California Davis
10:00 – 11:00 a.m.	All	The Foreign Animal Disease Diagnostic Laboratory: Role in Identifying Zoonotic Diseases	Dr. Robin Holland Head of the Diagnostics Services Section at the Foreign Animal Disease Diagnostic Laboratory of the Plum Island Animal Disease Center
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
12:00 – 1:00 p.m.	Faculty	The Animal Science Curriculum in Community Colleges in California	Ms. Jessica Cardoso, Associate Professor, Animal Science, San Joaquin Delta College Ms. Brandi Asmus, Agriculture Tech & Sciences Faculty/CC Coordinator, Woodland Community College Dr. Candice Stafford-Banks Professor of Agriculture, Woodland Community College, Woodland CA
1:00 – 2:00 p.m.	All	Academic Writing	Huong Huynh DVM Candidate, School of Veterinary Medicine, University of California, Davis
2:00 – 2:15 p.m.	All	Insulin-like Growth Factor-1 is Involved in the Deteriorated Performance of Aged Laying Hens	Qian Xin Master Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University
2:15 – 2:30 p.m.	All	Structural Characteristics and Immunomodulatory Effects of a Long-chain Polysaccharide from <i>Lamnia japonica</i>	Yunpeng Wang PhD Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	Role of Diagnostic Laboratories for Surveillance	Dr. Jennine Ochoa Professor, California Animal Health and Food Safety Laboratory, Department of Microbiology & Immunology, School of Veterinary, University of California, Davis
9:00 – 10:00 a.m.	All	Introduction to Essay Writing	Dr. June Barrera DVM, MPVM, School of Veterinary Medicine, University of California, Davis
10:00 – 11:00 a.m.	All	Sources of Fecal Contamination on Raw Produce	Dr. Michele Jay-Russell Program Manager, Western Center for Food Safety, University of California, Davis
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
1:00 – 2:00 p.m.	Graduate & Undergraduate Students	<b>Teamwork 4 Discussion Session</b> Interview: How's One Health Education at UC Davis Prepare Questions to Interview Facilitators. Record the Interview and Summarize	<u>UC Davis Facilitators:</u> June Barrera, DVM, MPVM Peerawat Chintrakulchai, PhD Student in Epidemiology Margaux Ocampo, Pharmaceutical Chemistry Research Assistant Serene Liu, PhD Student in Epidemiology Ryan Jung, MPH Student Jose Pablo Gomez, DVM, MPVM, PhD Shadira Gordon, PhD Student in Epidemiology Carla Castro, Undergraduate in Human Biology Alseema Alemayehu, Undergraduate in Human Biology & Public Health Cesar Herraiz Fernandez, PhD Student in Epidemiology and Emerging Disease Control
2:00 – 2:15 p.m.	All	Functional Study of Toxoplasma gondii Dense Granule Protein1	Bolin Fan PhD Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University
2:15 – 2:30 p.m.	All	Electroacupuncture Relieves Visceral Hypersensitivity	Qihua Li Master Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University
2:30 – 2:45 p.m.	All	Nitrogen-Doped Multiwalled Carbon Nanotubes Enhance Bone Remodeling through Immunomodulatory Functions	Dalin He PhD Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
<b>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</b>			
8:00 – 9:00 a.m.	All	Prevalence, Characterization, and Prevention of Swine Influenza Viruses	Dr. Honglei Sun Professor of Department of Preventive Veterinary Medicine, College of Veterinary Medicine, China Agricultural University
9:00 – 11:00 a.m.	All	Wheel of One Health	Mr. Gregory Wlasiuk E – Learning Curriculum Designer Ms. Heather Johnson Instructional Systems Designer, Western Institute for Food Safety and Security University of California, Davis
11:00 a.m. – 1:00 p.m.	All	LUNCH BREAK	
<b>INTERNATIONAL YOUNG SCHOLARS ONE HEALTH FORUM AFTERNOON SESSION</b>			
1:00 – 3:00 p.m.	Graduate & Undergraduate Students	<b>Teamwork 5 Discussion Session</b> Preparation for the Final Reports	<u>UC Davis Facilitators:</u> June Barrera, DVM, MPVM Peerawat Chintrakulchai, PhD Student in Epidemiology Margaux Ocampo, Pharmaceutical Chemistry Research Assistant Serene Liu, PhD Student in Epidemiology Ryan Jung, MPH Student Jose Pablo Gomez, DVM, MPVM, PhD Shadira Gordon, PhD Student in Epidemiology Carla Castro, Undergraduate in Human Biology Alseema Alemayehu, Undergraduate in Human Biology & Public Health Cesar Herraiz Fernandez, PhD Student in Epidemiology and Emerging Disease Control

FINAL DAY			
TIME	PARTICIPANTS	SUBJECT	SPEAKER
9:00 a.m. – 10:10 a.m.	All	Closing Remarks	Dr. Bennie Osburn Director, Outreach and Training, Western Institute for Food Safety and Security, Dean Emeritus, School of Veterinary Medicine, University of California, Davis
9:10 a.m. – 9:20 a.m.	All	Closing Remarks	Dr. Jun Han Professor and Associate Dean for Research and International Communications of College of Veterinary Medicine, China Agricultural University
9:20 a.m. – 9:25 a.m.	All	Closing Remarks	Mr. Michael Luo, Education Specialist, and International Programs Coordinator, Western Institute for Food Safety and Security, University of California, Davis
9:30 a.m. – 10:20 a.m.	All	Team Final Reports	Teams to Be Announced
10:20 a.m. – 10:30 a.m.	All	BREAK	
10:30 a.m. – 11:20 a.m.	All	Team Final Reports	Teams to Be Announced
11:20 a.m. – 12:00 p.m.	All	Certificate Ceremony	Mr. Taotao (Andy) Lu PhD Student in Epidemiology, University of California, Davis

*Congratulations!*

## CONFERENCE SPEAKERS

### DR. SHARIF ALY

Professor and Agronomist, Department of Population Health & Reproduction, School of Veterinary Medicine, University of California, Davis

PhD, University of California, Davis, CA  
 MPVM, University of California, School of Veterinary Medicine, Davis, CA  
 Residency, University of California, School of Veterinary Medicine, Davis, CA  
 Internship, University of Idaho, Caine Veterinary Teaching Center  
 BVSc, University of Cairo, Egypt  
 GCE, University of London,  
 IGCSE, University of Cambridge

**Research Focus:** Aly is a Professor of Epidemiology and Biostatistics at the School of Veterinary Medicine at UC Davis where he applies study design and quantitative methods to identify novel tools to advance dairy cattle health and welfare, public health, and food safety. Amongst the Dairy Epi Lab's output is large dairy herd surveillance for mastitis; the California Bovine Respiratory Disease (BRD) scoring system available as a free mobile app.



### BRANDI ASMUS

Agriculture Tech & Sciences Faculty/CC Coordinator, Woodland Community College, Woodland, CA

Master of Science degree in Animal Science, University of California, Davis

**Research Focus:** Agriculture Instructor at Woodland Community College. Brandi is a strong advocate for community college education, and she currently serves as the faculty mentor for the Agriculture Leadership group on campus, where students are given the opportunity to learn leadership skills and put them into action. Courses taught: Animal Science, Animal Feeds/Nutrition, Small Ruminant Production.



### DR. JUNE BARRERA

Master of Preventive Veterinary Medicine Candidate, University of California, Davis  
 Research Advisors: Dr. Jonna Mazet, UC Davis  
 Dr. Rudovick Kazwala, Sokoine University of Agriculture

DVM, University of California, School of Veterinary Medicine, Davis, CA  
 BS in Ecology, Behavior, and Evolution, University of California, Los Angeles

**Research Focus:** Best practices in data-sharing in the One Health community.



### MS. CHRIS BRUNNER

Communications and International Programs Director, Western Institute for Food Safety and Security, University of California, Davis

**Area of Focus:** Liaison for WIFSS international programs serving as link between WIFSS and international One Health programs involving multiple colleges and universities in East Asia.

## CONFERENCE SPEAKERS

### JESSICA CARDOSO

Associate Professor, Animal Science, San Joaquin Delta College, Stockton, CA  
MS in Agriculture Education, California Polytechnic State University, San Luis Obispo

**Area of Focus:** Instructor of Animal Science, including cattle, small ruminant, swine, and poultry. Manages student interns and the livestock lab which includes 6 acres, a herd of boer goats and a flock of show sheep.

### DR. PO-YEN CHOU

Associate Professor, Department of Surgical & Radiological Sciences, School of Veterinary Medicine, University of California, Davis

BVM, National Taiwan University, Taipei, Taiwan  
MVM, National Taiwan University, Taipei, Taiwan  
MS, Atlantic Veterinary College, University of Prince Edward Island, PE, Canada  
Diplomate, American College of Veterinary Surgeons - Small Animal

**Research Focus:** Surgical site infection, minimally invasive orthopedic surgery.

### DR. HAMED EL-MASHAD

Staff Research Associate, Department of Biological and Agricultural Engineering, University of California Davis

BSC and MSc in Agricultural Engineering from Mansoura University, Egypt  
PhD in Environmental Engineering from Wageningen University, Netherlands

**Research Focus:** Dr. El-Mashad's research focuses on bioenergy, bioproducts and biotechnical engineering. He has worked on areas such as bio-augmentations strategies of anaerobic digestion, sustainability, bioprocess engineering, fermentation technology, biomass research, infrared peeling of tomatoes and other vegetables, and much more. He has also been conducting research on air quality on dairy and poultry farms.

### MR. DAVID GOLDENBERG

Food Safety and Security Training Coordinator, Western Institute for Food Safety and Security, University of California, Davis

BS, The Ohio State University  
MS, University of California, Davis

**Area of Focus:** Food safety, with primary focus on growing produce and food packing facilities. Food security to prevent intentional adulteration.



Associate Dean for Research and International Communications and Professor of Virology,  
Department of Preventive Veterinary Medicine, China Agricultural University College of Veterinary Medicine  
Department of Preventive Veterinary Medicine, China Agricultural University College of Veterinary Medicine



## CONFERENCE SPEAKERS



### DR. XUNDE LI

Researcher, Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis

PhD, University of Rouen, Rouen, France  
MS, Jilin University, China  
BS, Jilin Agricultural University, China

**Research Focus:** The protection of the health of animals and the public and the improvement of food safety through laboratory and field-based studies on the sources, ecology, and transmission of bacterial and protozoal pathogens and bacterial antimicrobial resistance..



### MR. TAOTAO (ANDY) LU

PhD student, Epidemiology, University of California, Davis Research Advisor: Dr. Beatriz Martínez-López

MPVM, University of California, Davis

**Research Focus:** Zoonotic and infectious diseases, spatial and spatio-temporal epidemiology.



### MICHAEL LUO

Education Specialist and International Programs Coordinator, Western Food Institute for Food Safety & Security

MS in Agriculture Extension

**Area of Focus:** Supported the Education Conferences for One Health for Food Safety and Security as assistant to the Conference Coordinator since 2015. Mr. Luo facilitates in Problem-based Learning team building exercises, and lectures on communication skills.



### MR. RICHARD MA

College of Biological Sciences, University of California, Davis

Cell Biology Major

## CONFERENCE SPEAKERS



### DR. BEATRIZ MARTÍNEZ-LÓPEZ

Professor and Agronomist  
Department of Medicine & Epidemiology, School of Veterinary Medicine, University of California, Davis

DVM, Complutense University, Madrid, Spain  
Expert, Complutense University of Madrid, Spain  
MPVM, University of California, Davis, California  
PhD, Complutense University, Madrid, Spain

**Research Focus:** Currently, Dr. Martínez-López is leading the development, implementation and validation of novel Big Data analytical and visualization tools and their integration into operational, web-based, user-friendly platforms such as the novel Disease BioPortal to more timely support animal health decisions in livestock and aquaculture industries.



### DR. MAELI MELOTTO

Professor and Vice-Chair of Agricultural Plant Biology, Department of Plant Sciences, University of California, Davis

MSc in Plant Physiology and Biochemistry, University of São Paulo, Brazil  
PhD in Plant Breeding and Genetics, Michigan State University

**Research Focus:** Plant-pathogen interactions, understanding the close interaction between plants and human pathogens at the molecular level.



### DR. JENNINE OCHOA

Assistant Professor, California Animal Health and Food Safety Lab; Pathology, Microbiology & Immunology School of Veterinary Medicine University of California, Davis

DVM, University of California, Davis  
PhD, Washington State University  
Diplomate, American College of Veterinary Pathologists

**Research Focus:** Diagnostic pathology of agricultural livestock and poultry with an emphasis on diagnosis and surveillance of animal diseases that are of human and economic concern.



### DR. BENNIE OSBURN

Director, Outreach and Training, Western Institute for Food Safety and Security Dean Emeritus, School of Veterinary Medicine, University of California, Davis

DVM, Kansas State University PhD, in Comparative Pathology, University of California, Davis  
Post-Doctoral Fellowship, Johns Hopkins Medical School

**Research Focus:** Infectious diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents.

## CONFERENCE SPEAKERS



### DR. MARGUERITE PAPPAIOANOU

Affiliate Professor and Associate Director, Center for One Health Research Department of Environmental and Occupational Health Sciences School of Public Health, University of Washington

DVM, Michigan State University MPVM, University of California, Davis  
PhD in Comparative Pathology; UC Davis Diplomat, American College of Veterinary Preventive Medicine CDC Epidemic Intelligence Service

**Research Focus:** Emerging zoonotic diseases of pandemic concern; infectious disease surveillance, prevention, and control; food safety, One Health, Planetary Health.



### DR. MAURICE PITESKY

Associate Specialist in Cooperative Extension, Population Health & Reproduction, School of Veterinary Medicine, University of California, Davis

MPVM, University of California, Davis  
DVM, University of California, Davis

**Research Focus:** Application of classic and spatial epidemiology in disease surveillance, food safety management, and other processes associated with poultry health. Application of One Health principles with respect to domestic poultry, wildlife, the environment, and food safety.



### DR. ROBERT POPPENG

Professor, California Animal Health and Food Safety Lab Molecular Biosciences, University of California, Davis

DVM, University of Illinois, College of Veterinary Medicine, Urbana-Champaign, IL  
PhD, University of Illinois, College of Veterinary Medicine, Urbana-Champaign, IL  
Diplomate, American Board of Veterinary Toxicology

**Research Focus:** Veterinary Clinical Toxicology, Diagnostic Veterinary Toxicology; Diagnostic testing methods for animal intoxications; wildlife toxicology; biomarker development to better define exposure to toxicants.

**Specialty Focus:** Toxicology.



### DR. JORGE RODRIGUES

Professor, Department of Land, Air and Water Resources, University of California, Davis

MSc in Microbiology, University of São Paulo, Brazil PhD, in Crop and Soil Sciences and Environmental Toxicology, (Minor) Microbial Ecology (Dual Degree) - Michigan State University

**Research Focus:** Nature and ecology of soil microbial communities of importance to mankind. Research spans from natural to agricultural ecosystems and focused on microbiome solutions under increased world food demand. Results from this work have broad implications from basic research in evolutionary biology to applied aspects, such conservation policies for natural forests.



## CONFERENCE SPEAKERS



### **MR. GREGORY WLASIUK**

E-Learning Curriculum Designer, Western Institute for Food Safety and Security

MA in English, University of California, Davis

**Area of Focus:** Designing online educational content for Western Institute for Food Safety and Security educational programs, development of interactive online courses and instructive videos.



### **DR. ZHEN YANG**

Associate Professor, College of Veterinary Medicine, Nanjing Agricultural University

BS, South China Agricultural University  
DVM, University of Minnesota

**Research Focus:** Population Medicine of Swine and Cattle; Animal Epidemiology and cross-border animal infectious diseases.

## GRADUATE SPEAKERS

### MS. YIFAN CHEN

PhD Candidate, School of Tea and Food Science and Technology, Anhui Agricultural University

BS, Tea Science, Qingdao Agricultural University

**Research Focus:** Secondary Metabolism and Quality Chemistry of Tea



### MR. GUOFEI DING

PhD Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University

BE, Shandong Agricultural University

**Research Focus:** Pathogenic Mechanism of Porcine Reproductive and Respiratory Syndrome Virus



### MR. BOLIN FAN

PhD Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University

BS, Shenyang Agricultural University.  
MS, Huazhong Agricultural University

**Research Focus:** Parasite Molecular Biology and Genetic Engineering



### MS. FEI FANG

Master Candidate, College of Resources and Environment, Anhui Agricultural University

BE, Environmental Science, Liaoning Petrochemical University

**Research Focus:** Preparation of Environmental Functional Materials and Their Mechanism of Action on Pollutants

## GRADUATE SPEAKERS



### MS. RUYI GAO

Postdoctoral Researcher,  
College of Veterinary Medicine, Yangzhou University

BS, Agronomy, Yangzhou University  
PhD, Yangzhou University

**Research Focus:** Genetic Evolution and Pathogenic  
Mechanism of Avian Influenza Virus



### MS. YILIN GUO

PhD Candidate, College of Animal Science and Technology & College of Veterinary Medicine,  
Huazhong Agricultural University

BS, Henan University of Science and Technology  
MS, Huazhong Agricultural University

**Research Focus:** Animal Virology



### MR. DALIN HE

PhD Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural  
University

BS, Shandong Agricultural University  
MS, Shandong Agricultural University

**Research Focus:** Veterinary Medicine



### MR. ZHUXING JI

PhD Candidate, College of Veterinary Medicine, Yangzhou University

BVSc, Yangzhou University

**Research Focus:** Mechanism of Avian Influenza  
Virus-host Interactions

## GRADUATE SPEAKERS



### MR. MA LI

Master Candidate, College of Animal Science and Technology, Anhui Agricultural University

BS, Anhui Agricultural University, Animal Medicine.

**Research Focus:** Nutritional Metabolic Diseases and Poisoning of Livestock and Poultry



### MS. LU LI

Master Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University

BS, Veterinary Medicine, Shandong Agricultural University

**Research Focus:** Viral Infection and Immune Regulation

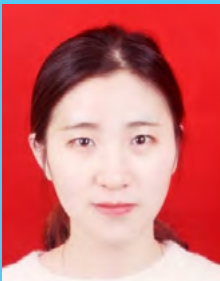


### MS. QIUHUA LI

Master Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University

BS, Animal Medicine, Sichuan University for Nationalities.

**Research Focus:** Clinical Veterinary Medicine



### MS. XIAOFEI LI

PhD Candidate, College of Veterinary Medicine, Yangzhou University

MS, Biology, Yangzhou University  
BS, Pharmacy, Xuzhou Medical University

**Research Focus:** The Pathogenic Mechanisms and Putative Virulence Genes of *Campylobacter jejuni*



## GRADUATE SPEAKERS



### MR. JINDE LIU

Master Candidate, College of Animal Science and Technology, Anhui Agricultural University

BS, Shandong Agricultural University Animal Medicine

**Research Focus:** Veterinary Pharmacology  
Food Safety of Animal Origin



### MS. YUANYUAN LUO

PhD Candidate, School of Tea and Food Science and Technology, Anhui Agricultural University

BS, Tea Science, South China Agricultural University

MS, Tea Science, Anhui Agricultural university

**Research Focus:** The Transport of Caffeine in Tea Plants (Camellia Sinensis)



### DR. CHUANG MENG

Lecturer, PhD, College of Bioscience and Biotechnology, Yangzhou University

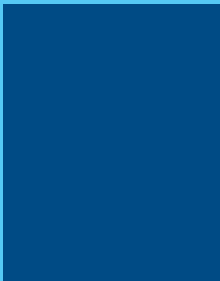
Visiting Scholar, College of Medicine, University of Illinois at Chicago

Ph.D., In Animal Immunology, College of Veterinary Medicine, Yangzhou University

MS, Genetics, College of Bioscience and Biotechnology, Yangzhou University

BS, Biotechnology, College of Bioscience and Biotechnology, Yangzhou University

**Research Focus:** Innate Immunity of Foodborne Pathogens



### MR. JIALE SHI

PhD Candidate, College of Animal Science and Technology & College of Veterinary Medicine, Huazhong Agricultural University

BS, Shanxi Agricultural University.

MS, Huazhong Agricultural University

**Research Focus:** Preventive Veterinary Medicine

## GRADUATE SPEAKERS



### **MS. XIYUE WANG**

Master Candidate, College of Veterinary Medicine, Yangzhou University

BVSc, Yangzhou University

**Research Focus:** Virus Evolution



### **MR. YUNPENG WANG**

PhD Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University

BS, Aquaculture Science, Shandong Agricultural University  
MS, Zootechnical Science, Shandong Agricultural University

**Research Focus:** Animal Nutrition



### **MS. WENLIAN WENG**

PhD Candidate, College of Veterinary Medicine, China Agricultural University

BS, Longyan University  
MS, Chinese Academy of Agricultural Sciences

**Research Focus:** Research on Animal Viruses



### **MS. QIAN XIN**

Master Candidate, College of Animal Science and Veterinary Medicine, Shandong Agricultural University

BS, Shandong Agricultural University

**Research Focus:** Animal Nutrition

**MS. PING ZHANG**

Master Candidate, College of Resources and Environment, Anhui Agricultural University

BS, Huang Shan University

## GRADUATE SPEAKERS



### **MS. YI ZHOU**

PhD Candidate, College of Veterinary Medicine, Yangzhou University

BS, Yangzhou University  
MS, Yangzhou University

**Research Focus:** Interaction between Salmonella and Autotroph

# ONE HEALTH

UC DAVIS EDUCATION CONFERENCE  
ON ONE HEALTH FOR FOOD SAFETY,  
AGRICULTURE, AND ANIMAL HEALTH