

2025 WINTER ONE HEALTH CONFERENCE

for future global health

Programme Schedule

February 3 -14, 2025



CONFERENCE DESCRIPTION

The 2025 Winter One Health Conference for Future Global Health, scheduled for February 3 -14, 2025, is an on-site at the University of California, Davis.

The conference is hosted by the WIFSS of UCD, a distinguished member of the Global One Health Research Partnership (GOHRP). Joining WIFSS as co-hosts are the other esteemed members of GOHRP, including Nanjing Agricultural University in China, Wageningen University and Research in the Netherlands, and Massey University of New Zealand.

In-depth Educational Experience

This is an in-depth educational experience for undergraduate and graduate students 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. The conference raises awareness of the concept of One Health by instilling confidence to build multidisciplinary teams to solve problems and it inspires participants to take action to address complex problems that arise at the interface of animals, humans, and the environment.

Working Together – Building Friendships

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 will have the chance to work together on team-building activities and build friendships through problem-based learning projects. Students form lasting friendships through team experiences that provide lifelong support through graduate programs, careers, and innovative research.

Long History and Bright Future

WIFSS is the original creator of One Health educational conferences covering the areas of food systems and animal health spanning nine years with more than 1,000 faculty members, undergraduate and graduate students in attendance. They represent multiple disciplines including veterinary, agricultural science, engineering, and nutrition, from 21 different universities in China and Southeast Asia.

WIFSS One Health conferences introduce undergraduate and graduate students from a variety of disciplines who may want to be involved in addressing the multidisciplinary fields it takes to work together to solve complex problems global health issues.

MONDAY – February 3 – Classroom 1023 Valley

9:00 – 9:15	Welcome	Dr. Bennie Osburn Director, Outreach & Training, Western Institute for Food Safety and Security (WIFSS), UCD
9:15– 10:00	Overview of School of Veterinary Medicine	Dr. Mark D. Stetter Dean, School of Veterinary Medicine, UCD
10:00 – 10:15	BREAK	
10:15 – 10:45	The Power of One	Ms. Chris Brunner Communications and International, Programs Director, Western Institute for Food Safety and Security (WIFSS), UCD
10:45 – 12:30	LUNCH	
12:30 – 2:00	Overview of Global One Health for H5N1 Pandemic, and Introduction of Problem-Based Learning	Dr. Bennie Osburn and Ms. Heather Johnson Instructional Designer, Western Institute for Food Safety and Security (WIFSS), UCD

MONDAY – February 3 – Classroom 1023 Valley



DR. BENNIE OSBURN

Emeritus Dean, School of Veterinary Medicine, UCD
Director of Outreach and Training, Western Institute for Food
Safety and Security (WIFSS).
Post-Doctoral Fellowship, Johns Hopkins Medical School
DVM, Kansas State University
PhD in Comparative Pathology, UCD

Research Focus: During his career, his research focused on infectious and immune mediated diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents. His interest is in One Health educational approaches to food safety and security, and all hazard disasters to facilitate a better understanding of the complex interactions of humans, animals, and the environment.



DR. MARK D. STETTER

Dean/Professor, School of Veterinary Medicine, UCD
Diplomate, American College of Zoological Medicine
DVM, University of Illinois at Champaign-Urbana
BS, University of Illinois at Champaign-Urbana

Research Focus: Dr. Stetter is a veterinary specialist in zoo and wildlife medicine and a Diplomate of the American College of Zoological Medicine. His research interests have included advancing minimally invasive surgery in non-domestic species, diagnostic imaging of fish, amphibians and reptiles, and infectious diseases of zoological species. His work has resulted in more than a hundred scientific publications and conference presentations.

MONDAY – February 3 – Classroom 1023 Valley



MS. HEATHER JOHNSON

Instructional Systems Designer, WIFSS
MS in Microbiology, UCD

Area of Focus: Heather oversees the instructional design component of WIFSS training and educational projects in accordance with certification standards that meet local, state, and federal agency requirements. She designs blended - learning educational materials specifically using principles of adult education.



MS. CHRIS BRUNNER

Communications and International
Programs Director, WIFSS

Area of Focus: In retirement Chris continues to offer her services as liaison for WIFSS international programs serving as a link between WIFSS and international One Health programs involving multiple colleges and universities in East Asia.

TUESDAY – February 4 – Classroom 1041 Valley

9:00 – 10:30	DISCUSSION #1 – Team Introductions and One Health Team Poster	UC Davis Team Facilitators
10:30 – 10:45	BREAK	
10:45 – 11:30	Disruptive Ecosystem Impact on Healthy Soils for One Health	Dr. Sanjai Parikh Associate Professor of Soil Chemistry Department of Land, Air and Water Resources, UCD
11:30 – 13:00	LUNCH	
1:00 – 3:00	Tour Veterinary Medical Teaching Hospital – and Group Photo	UC Davis Student Tour Guides

TUESDAY – February 4 – Classroom 1041 Valley



DR. SANJAI PARIKH

Associate Professor, Department of Land, Air and Water Resources, UCD

Chair, College of Agricultural and Environmental Science
Faculty Executive Committee

MS in Soil Science, The Pennsylvania State University

PhD in Soil Chemistry, The University of Arizona

Research Focus: Biogeochemical processes in soil and water are critical for sustaining and improving soil, human, and global health. His research addresses the recycling of water materials as beneficial soil amendments, contaminant fate, transport, and climate change mitigation.

TUESDAY – February 4 – Classroom 1041 Valley

PROGRAM FACILITATORS



Taotao (Andy) Lu

Lead Coordinator for UC Davis Team Facilitators
MPVM, PhD candidate
in Epidemiology



Ruwini Rupasinghe

BVSc, MPhil, MPVM,
PhD candidate
in Epidemiology



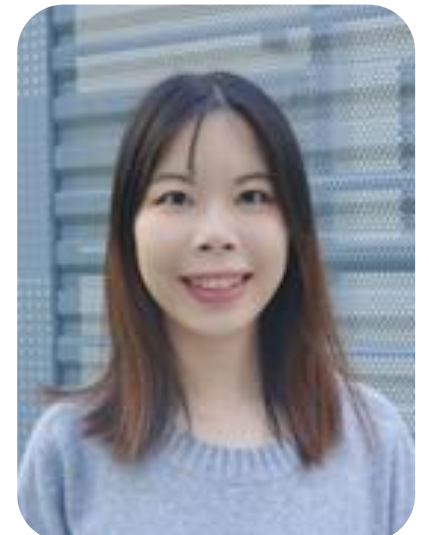
Maria Luisa Klobongona

DVM, MPVM
PhD student in
Epidemiology



Lidya Abebe

PhD student
in Epidemiology



Junlin Chen

MPH
PhD student in
Epidemiology

WEDNESDAY – February 5 – Classroom 1041 Valley

9:00 – 9:45	Modeling of HPAI Infection for Mitigating the Spread of Disease	Dr. Maurice Pitesky Associate Specialist in Cooperative Extension, Department of Population, Health and Reproduction, School of Veterinary Medicine, UCD
9:45 – 10:30	The Role of Diagnostic Laboratories for Surveillance	Dr. Jennine Ochoa California Animal Health and Food Safety Laboratory, Tulare, UCD
10:30 – 10:45	BREAK	
10:45 – 11:30	Communicating Scientific Research to the Public	Ms. Heather Johnson Instructional Systems Designer, WIFSS, UCD
11:30 – 1:00	LUNCH	
1:00 – 2:30	DISCUSSION #2 – Discussion of One Health and Introduction of Final Report	UC Davis Team Facilitators

WEDNESDAY – February 5 – Classroom 1041 Valley



DR. MAURICE PITESKY

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

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. JENNINE OCHOA

Assistant Professor, California Animal Health and Food Safety
Laboratory; Pathology, Microbiology & Immunology School of
Veterinary Medicine University of California, Davis
Diplomate, American College of Veterinary Pathologists
Diplomate, American College of Veterinary Pathologists
DVM, University of California, Davis
PhD, Washington State University

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.

THURSDAY – February 6 – FIELD TRIP

8:00	Board Bus	VP Lot 50 (Outside Valley Hall)
10:00 – 11:00	California State University, Chico	Guided Tour University Farm 311 Nicholas C. Schouten Lane, Chico, CA 95928
12:00 – 12:15	Group Lunch	La Cocina Economica 905 Wall St, Chico, 95928 (530) 809-0370 https://lacocinaeco.com/
2:30	Arrive Campus	VP Lot 50, Valley Hall

FRIDAY – February 7 – Classroom 1043 Valley

9:00 – 9:50	An Overview of H5N1 Avian Influenza A Virus in California Dairy	Dr. Mike Payne Dairy Outreach Coordinator, WIFSS, UCD
9:50– 10:45	The Role of Epidemiology in Bird Flu Virus Infection on Dairies	Dr. Sharif Aly Professor and Agronomist, Department of Population Health & Reproduction, School of Veterinary Medicine, UCD
10:40 – 11:00	BREAK	
11:00 – 11:50	Feed-based Technologies to Improve Weaned Pig Health and Production	Dr. Yanhong Liu Associate Professor, Animal Nutrition, Department of Animal Science, UCD
11:50 – 1:30	LUNCH	
1:30 – 2:00	Global One Health Learning Activity	Ms. Heather Johnson Instructional Systems Designer, WIFSS, UCD

FRIDAY – February 7 – Classroom 1043 Valley



DR. MIKE PAYNE

Dairy Outreach Coordinator, Western Institute for Food Safety & Security, University of California, Davis, and Co-Director Dairy Cattle Health, California Dairy Quality Assurance Program, (CDQAP)
DVM from University of Georgia, College of Veterinary Medicine
Master Veterinary Medicine, College of Veterinary Medicine, Kansas State University
PhD School of Veterinary Medicine, Comparative Pathology, UC Davis, CA

Research Focus: Dr. Payne is a researcher and outreach coordinator at WIFSS, and has worked as a veterinarian in extension, academics and private practice. As co-director at CDQAP he encourages partnerships with industry and academia which promote the health and welfare of livestock, consumers and the environment through outreach, education and research.



Dr. YANHONG LIU

Associate Professor of Animal Nutrition,
Department of Animal Science, UCD
PhD, University of Illinois, Urbana-Champaign,
(Animal Science)
MS, China Agricultural University, (Animal Nutrition)
BS, China Agricultural University, (Biological
Science)

Research Focus: Evaluation of dietary effects on pig health by investigating impacts of products now available to the industry and developing new approach for the industry.

FRIDAY – February 7 – Classroom 1043 Valley



DR. SHARIF ALY

Professor and Agronomist, Department of Population Health & Reproduction, School of Veterinary Medicine, UCD
PhD, University of California, Davis, CA
MPVM, School of Veterinary Medicine, UCD
Residency, School of Veterinary Medicine, UCD
Internship, University of Idaho, Caine Veterinary Teaching Center
BVSc, University of Cairo, Egypt
GCE, University of London, England
IGCSE, University of Cambridge, England

Research Focus: Dr. 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. Among 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.

MONDAY – February 10 – Classroom 1101 VM3B

9:00 – 9:45	Graduate Education at UC Davis and USA	Dr. Xin Chen Associate Director of International Partnerships and Development International and Access Programs, UCD
10:00 - 10:45	Integrated Dairy Herd Health Program	Dr. Richard Van Vleck Pereira Associate Professor of Clinical Livestock Herd Health, School of Veterinary Medicine, UCD
10:45 – 12:30	LUNCH	
12:30 – 1:15	Overview of the Importance of Animal Waste in a Sustainable Environment	Dr. Pramod Pandey Associate Agronomist and Associate Specialist in Cooperative Extension, Department of Population Health and Reproduction, School of Veterinary Medicine, UCD
1:30 – 3:00	DISCUSSION #3 – Infectious Disease Outbreak Caused by Zoonotic Pathogen (H5N1)	UC Davis Team Facilitators

MONDAY – February 10 – Classroom 1101 VM3B



DR. XIN CHEN

Associate Director for International Partnerships and Development, Division of Continuing and Professional Education, UCD

PhD in higher education management and administration, University of Virginia, US
Master's degree at Fudan University, and BA from East China Normal University

Research Focus: Dr. Chen is responsible for planning and developing customized learning opportunities that focus on diversity of higher education for students, faculty, professionals, and university administrators. She is tasked with conducting marketing, creating and managing partnerships and developing customized academic and professional development programs for international universities in teaching, learning and scholarship collaboration.

MONDAY – February 10 – Classroom 1101 VM3B



DR. RICHARD VAN VLECK PEREIRA

Associate Professor, Department of Population Health and Reproduction,
School of Veterinary Medicine, UCD
Externship, Washington State University, Veterinary Teaching Hospital,
Pullman, WA
Diplomate of the American College of Veterinary Preventive Medicine
(ACVPM)
BVSc, Federal University of Uberlandia, Uberlandia, MG, Brazil
Intern, University of Florida, Gainesville, FL
Resident Certificate, Cornell University Hospital for Animals (CUHA),
Ithaca, NY
PhD, Cornell University, College of Veterinary Medicine, Ithaca, NY

Research Focus: One Health; Food Animal Herd Health & Reproduction;
Epidemiology; Antimicrobial Resistance.



DR. PRAMOD PANDEY

Associate Agronomist and Associate Specialist in
Cooperative Extension, Department of Population Health
and Reproduction, School of Veterinary Medicine, UCD;
and Assistant Cooperative Extension Specialist, Food
Science and Technology
PhD, from Iowa State University, Ames, IA
MS, Washington State University, Pullman, WA
MS, M. Tech. at Indian Institute of Technology, Kharagpur

Research Focus: Pathogenic bacteria transport at
watershed-scale, in-stream and overland bacteria transport,
watershed modeling, anaerobic digestion, renewable
energy, water resources management, and rainwater
harvesting.

TUESDAY – February 11 – FIELD TRIP

8:15	Board Bus	VP Lot 50 (Outside Valley Hall)
10:00 – 11:30	Sonoma County Wildlife Rescue	403 Meacham Rd, Petaluma, CA 94952 9629 https://scwildliferescue.org/
11:50 – 1:00	LUNCH	In n Out Burger 1100 Lakeville Hwy, Petaluma, 94954 (800) 786-1000
1:30 – 2:30	Arrive Bodega Dunes Campground, Sonoma Coast State Park	2485 Highway 1, Bodega Bay, CA 94923, 707-875-3483
4:30	Arrive Campus	VP Lot 50, Valley Hall

WEDNESDAY – February 12 – Classroom 1020 Valley

9:00 – 9:45	Toxicology as a Disruptor of One Health Systems	Dr. Wilson Rumbeiha Toxicologist, Molecular Biosciences, School of Veterinary Medicine, University of California, Davis
9:45 – 10:30	Overview of Clinical Examination of Zoonotic Diseases in Companion Animals	Dr. Ilana Halperin Health Sciences Associate Professor of Clinical Medicine & Epidemiology, School of Veterinary Medicine, UCD
10:30 - 10:45	BREAK	
10:45 – 11:30	Antibiotic Resistance of Enteric Bacteria in Retail Foods	Dr. Xunde Li Researcher, Department Population Health and Reproduction, School of Veterinary Medicine, UCD
11:30 – 1:00	LUNCH	
13:30 – 15:00	DISCUSSION #4 – Creation of Final Reports	UC Davis Team Facilitators

WEDNESDAY – February 12 – Classroom 1020 Valley



DR. WILSON RUMBEIHA

Toxicologist, Molecular Biosciences, School of Veterinary Medicine, University of California Davis
Diplomate, American Board of Toxicology
Diplomate, American Board of Veterinary Toxicology
Fellow, Academy of Toxicological Sciences
BVM, Makerere University, Kampala, Uganda
PhD, University of Guelph, Guelph, Ontario, Canada

Research Focus: Dr. Rumbeiha's primary research focus is investigating the role of the environment in neurotoxicology and neurodegenerative diseases. His secondary research focus is translational veterinary toxicology.



DR. WILSON RUMBEIHA

Health Sciences Associate Professor of Clinical Medicine & Epidemiology, Department of Medicine & Epidemiology, School of Veterinary Medicine, UCD
CVA, International Veterinary Acupuncture Society
DVM, School of Veterinary Medicine, UCD
BA, UCD

Research Focus: Primary Care and Feline Medicine. Improving community practice client communications and answering clinical questions relevant to primary care and preventive veterinary medicine

WEDNESDAY – February 12 – Classroom 1020 Valley



DR. XUNDE LI

Researcher, Department of Population Health and
Reproduction, School of Veterinary Medicine, UCD
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.

THURSDAY – February 13 – Classroom 1101 VM3B

9:00 – 9:50	The Impact of Climate Change on 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
10:00 – 11:00	Yolo Bypass Wildlife Area	Yolo Bypass Wildlife Area 45211 County Road 32B, Davis, 95618 https://wildlife.ca.gov/Lands/Places-to-Visit/Yolo-Bypass-WA
11:00 - 1:00	GROUP LUNCH	
1:00 – 3:00	DISCUSSION #4 – Teams work on final report presentations	UC Davis Team Facilitators

THURSDAY – February 13 – Classroom 1101 VM3B



DR. MARGUERITE PAPPADIOANOU

Affiliate Professor and Associate Director, Center for One Health
Research Department of Environmental and Occupational Health
Sciences School of Public Health, University of Washington
Diplomate, American College of Veterinary Preventive Medicine CDC
Epidemic Intelligence Service
DVM, Michigan State University MPVM, University of California, Davis
PhD in Comparative Pathology; UC Davis

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

FRIDAY – February 14 – Classroom 1047 Valley

9:00 – 9:30	Closing Remarks	Dr. Bennie Osburn
9:30 – 9:45	Team Presentation – Final Report	Team One
9:45 – 10:00	Team Presentation – Final Report	Team Two
10:00 – 10:15	BREAK	
10:15 – 10:30	Team Presentation – Final Report	Team Three
10:30 – 10:45	Team Presentation – Final Report	Team Four
10:45 – 11:30	Certificate Ceremony	All Participants
11:30	Group Photo	
11:45 –	LUNCH and Goodbyes	Pizza in 2030Valley, downstairs conference room

CONGRATULATIONS !