

2026 WINTER ONE HEALTH CONFERENCE

for future global health

Program Schedule

January 26 - February 6, 2026



CONFERENCE DESCRIPTION

The 2026 Winter One Health Conference for Future Global Health, scheduled for January 26 - February 6, 2026, 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 – January 26 – Classroom 1041 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 – 10:05	Remark	Ms. Suhui Liu Coordinator of student exchange programs, Nanjing Agricultural University
10:05 – 10:15	BREAK	
10:15 – 11:00	Communicating Scientific Research to the Public	Ms. Heather Johnson Instructional Designer, Western Institute for Food Safety and Security (WIFSS), UCD
11:00 – 1:00	LUNCH	
1:00 – 2:30	Overview of Problem-based Learning to Address Global One Health Issues	Dr. Bennie Osburn and Ms. Heather Johnson

MONDAY – January 26 – Classroom 1041 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 – January 26 – Classroom 1041 Valley



MS. SUHUI LIU

Coordinator of student exchange programs
Office of International Relations & College of International Education
Nanjing Agricultural University

Area of Focus: Managing and developing diverse outbound exchange programs, including short-term visits and degree studies. Providing comprehensive guidance on applications, visas, and pre-departure orientations. Assisting in the recruitment, service, and management of international students.



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.

TUESDAY – January 27 – Classroom 2030 Valley

9:00 – 9:30	The Power of One	Ms. Chris Brunner Communications and International, Programs Director, Western Institute for Food Safety and Security (WIFSS), UCD
9:30 – 10:30	DISCUSSION #1 – Team Introductions and One Health Team Poster Activity	UC Davis Team Facilitators
10:30 – 10:45	BREAK	
10:45 – 11:30	Soil Health: Linking Ecosystem Health to Human and Animal Health: The Challenges and Opportunities.	Dr. Jorge Rodrigues UC Davis Department of Land, Air, and Water Resources
11:30 – 1:00	LUNCH	
1:00 – 3:00	Tour Veterinary Medical Teaching Hospital – and Group Photo	UC Davis School of Veterinary Medicine Student Tour Guides

TUESDAY – January 27 – Classroom 2030 Valley



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.



DR. JORGE RODRIGUES

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

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 as conservation policies for natural forests.

TUESDAY – January 27 – Classroom 2030 Valley

PROGRAM FACILITATORS



Taotao (Andy) Lu

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



Ruwini Rupasinghe

BVSc, MPhil, MPVM, PhD and Post-doc in epidemiology



Cheng-Hong (Philip) CHI

DVM
PhD student in Epidemiology



Henry Wamala

BVM, MPVM
PhD Student in Epidemiology



Yasmin Moghaddamziabari

BS bio, MS healthcare admin, PhD student in epidemiology

WEDNESDAY – January 28 – Classroom 1043 Valley

9:00 – 9:50	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
9:50 – 10:30	An Overview of Internship, Department of Food Safety & Zoonoses, WHO, Geneva	Dr. Jamie Ng Pereira Small animal veterinarian in the Sacramento/Davis region
10:30 – 10:45	BREAK	
10:45 – 11:30	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 Occupational Health Sciences, School of Public Health, University of Washington
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 – January 28 – Classroom 1043 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. JAMIE NG PEREIRA

Small animal veterinarian in the Sacramento/Davis region

Dr. Jamie Pereira is a small animal veterinarian in the Sacramento/Davis region. She earned her Doctor of Veterinary Medicine from Cornell University in 2015 and a Master of Public Health from the University of Minnesota in 2017, during which she also completed an internship in the Department of Food Safety and Zoonoses at the World Health Organization headquarters in Geneva, Switzerland. Dr. Pereira has been in private practice for almost 10 years and uses her public health background to promote disease prevention and create awareness about zoonoses.

WEDNESDAY – January 28 – Classroom 1043 Valley



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
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.

THURSDAY – January 29 – Classroom 2030 Valley

9:00 – 9:50	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
9:50– 10:45	The Role of Diagnostic Laboratories for Surveillance	Dr. Jennine Ochoa California Animal Health and Food Safety Laboratory, Tulare, UCD
10:45 – 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 – 3:00	Global One Health Case Studies Learning Activity	Ms. Heather Johnson Instructional Systems Designer, WIFSS, UCD

THURSDAY – January 29 – Classroom 2030 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.

THURSDAY – January 29 – Classroom 2030 Valley



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.



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 – January 30 – FIELD TRIP

8:30	Board Bus	VP Lot 50 (Outside Valley Hall)
10:30	Hilmar Cheese	Hilmar Cheese Visitor Center 9001 N. Lander Ave. Hilmar, CA 95324
10:30 – Noon	Tour Visitor Center and Lunch and Group Photo	
12:00 – 1:30	Clauss Dairy Farm	21670 Bloss Ave. Hilmar, CA 95324 Coordinated by Dr. Mike Payne Dairy Outreach Coordinator, Western Institute for Food Safety and Security (WIFSS), UCD, and Co-Director Dairy Cattle Health, California Dairy Quality Assurance Program, (CDQAP)
1:30	Board Bus	
4:00	Arrive Campus	VP Lot 50, Valley Hall

FRIDAY – January 30 – FIELD TRIP



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, academic and private practice. As co-director at CDQAP he encourages partnerships with industry and academia which promotes the health and welfare of livestock, consumers and the environment through outreach, education and research.

MONDAY – February 2 – Field Trip State Capitol & Classroom 1041 Valley

8:45	Board Bus	VP Lot 50, Valley Hall
9:15	Arrive Capitol	Sacramento
10:00	Meet Tour Guide	
11:00	Complete Tour	
11:15 – 12:45	Tour Old Sacramento	
12:45	Board Bus	
1:00	Arrive campus	
1:00 – 1:50	LUNCH	
1:50 – 3:00	DISCUSSION #3 – Infectious Disease Outbreak Caused by Zoonotic Pathogen (H5N1)	UC Davis Team Facilitators

TUESDAY – February 3 – Classroom 1041 Valley

9:00 – 10:00	VERT - How to Set Up and Deploy Emergency Animal Response	Dr. John Madigan Professor Emeritus, Department of Veterinary Medicine, School of Veterinary Medicine, UCD
10:00 – 10:45	Integrated Dairy Herd Health Program & Review biosecurity for visiting dairy farm	Dr. Richard Van Vleck Pereira Associate Professor of Clinical Livestock Herd Health, School of Veterinary Medicine, UCD
10:45 – 11:00	Walk to Dairy Barn	
11:00 – 12:00	Tours of the dairy farm	
12:00 – 2:00	LUNCH	
2:15 – 3:00	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

TUESDAY – February 3 – Classroom 1041 Valley



DR. JOHN MADIGAN

Department of Medicine & Epidemiology, School of Veterinary Medicine, University of California, Davis

Research Focus: Equine and Comparative Neurology, Neonatal medicine, Transition of consciousness at birth in infants and neonatal foals, Trigeminal Mediated Headshaking, Infectious disease



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.

TUESDAY – February 3 – Classroom 1041 Valley



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.

WEDNESDAY – February 4 – Classroom 1041 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	
1:00 – 1:30	Graduate Education at UC Davis and USA	Dr. Xin Chen Associate Director of International Partnerships and Development International and Access Programs, UCD
1:30 – 3:00	DISCUSSION #4 – Creation of Final Reports	UC Davis Team Facilitators

WEDNESDAY – February 4 – Classroom 1041 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. Rumbelha'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. ILANA HALPERIN

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 4 – Classroom 1041 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.



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.

THURSDAY – February 5 – Classroom 1041 Valley

9:00 – 9:50 Work on final reports

10:00 – 10:50 Swine Behavior and Welfare

Dr. Kristina Horback

Assistant Professor, Department of Animal Science, UCD

10:50 - 1:00 LUNCH

1:00 – 1:50 Teams work on final report presentations

2:00 – 2:50 Food Engineering to Develop Technologies for
Addressing Key Issues in Areas of Food Safety and
Food for Health Initiatives

Dr. Nitin Nitin

Department Vice Chair; Professor and Engineer Unit
Food Science and Technology, Biological and Agricultural
Engineering, University of California, Davis

THURSDAY – February 5 – Classroom 1041 Valley



DR. KRISTINA HORBACK

Associate Professor, Department of Animal Science

Research Focus: Investigates whether species-specific personality traits influence how an animal not only copes with stress but also how the animal expresses its internal state, such as pain or fear, to enhance animal-based measurements of welfare. Knowledge of individual differences in personality may allow animal caretakers to gauge social compatibility, customize environmental enrichment, and identify individuals more susceptible or resilient to environment/social stress.



DR. NITIN NITIN

Department Vice Chair; Professor and Engineer Unit Food Science and Technology, Biological and Agricultural Engineering, University of California, Davis

Research Focus: Food Engineering Research: The goal of this research plan is to develop technologies for addressing key issues in areas of food safety and food for health initiatives (e.g. development and validation of non-thermal food processing operations for food safety; engineering of food formulations to improve bioavailability of nutraceuticals). These projects will provide students with skills in areas of molecular imaging, spectroscopy, mathematical modeling, molecular biology, microbiology and material science with a strong foundation in food engineering. Biological/Biomedical Engineering Research: The goal of this research is to develop molecular imaging technologies from a single cell level to a whole-body imaging. These imaging technologies will enable early-stage detection of diseases, novel delivery vehicles for therapeutic applications and quantification of molecular processes for fundamental understanding of patho-physiology. These projects will provide students with skills in areas of molecular imaging, mathematical modeling, molecular biology and material science with a strong foundation in bioengineering.

FRIDAY – February 6 – Classroom 1041 Valley

9:00 – 9:30	Closing Remarks	Dr. Bennie Osburn
9:30 – 9:45	Team Presentation – Final Report	Group Three – Prone Health (Henry Wamala Facilitator)
9:45 – 10:00	Team Presentation – Final Report	Group One – Penguin (Ruwini Rupasinghe Facilitator)
10:00 – 10:15	BREAK	
10:15 – 10:30	Team Presentation – Final Report	Group Two – Vetotogether (CHI Cheng-Hong [Philip] Facilitator)
10:30 – 10:45	Team Presentation – Final Report	Group Four – VEEF for One Health (Yasmin Moghaddamziabari Facilitator)
10:45 – 10:50	Speeches by student representatives	Ms. Huiwen Yao Nanjing Agricultural University
10:50 – 11:30	Certificate Ceremony	All Participants
11:30	Group Photo	All Participants
11:45 –	LUNCH and Goodbyes	Pizza in 2030Valley , downstairs conference room

CONGRATULATIONS !