



UCDAVIS

ONE HEALTH

FOOD SAFETY, AGRICULTURE
AND ANIMAL HEALTH

CONFERENCE SCHEDULE

JANUARY 30 - FEBRUARY 10

ONLINE
INTERACTIVE & GROUNDBREAKING
CONFERENCE

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

CO-HOSTED BY: CHINESE CONSORTIUM FOR ONE HEALTH AND CHINA AGRICULTURAL UNIVERSITY



2023 Winter Conference

The 2023 UC Davis Education Conference on One Health for Food Safety, Agriculture, and Animal Health is scheduled to take place online, January 30 – February 10, 2023. This online conference 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 2023 winter online conference is hosted by the University of California, Davis, Western Institute for Food Safety and Security, (WIFSS). Joining us for the third time as co-host is our honorable partner China Agricultural University, (CAU). We are pleased to have the Chinese Consortium for One Health, (CCOH), as an additional co-host for this conference. A special thanks to our Associate Organizer Nanjing Agricultural University, (NAU), for their generous collaboration throughout the years. 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 and other universities around the world.

In-depth Educational Experience

UC Davis WIFSS's 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.

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 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.

Raising Awareness – Promoting a Healthy Planet

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. This comprehensive online program includes lectures, multidisciplinary discussion sessions, and team-building exercises which increase the participants awareness of taking a broad 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.

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 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
10:00 – 10:10 a.m.	All	Opening Remarks	Dr. Jianzhong Shen Academician of Chinese Academy of Engineering, Dean, College of Veterinary Medicine, China Agricultural University
10:10 – 10:30 a.m.	All	Welcome and Overview of One Health Research and Education at Shanghai Jiao Tong University	Dr. Xiaonong Zhou Dean, School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine
10:30 – 10:50 a.m.	All	Welcome and Overview of One Health Research and Education at China Agricultural University	Dr. Jun Han Associate Dean for Research and International Communications and Professor of Virology, Department of Preventive Veterinary Medicine, China Agricultural University College of Veterinary Medicine
10:50 a.m. – 11:05 a.m.	All	Welcome and Overview of One Health Research and Education at Nanjing Agricultural University	Dr. Yingjuan Qian Professor, Prevention of Preventive Veterinary Medicine, Nanjing Agricultural University One Health Center NAU-UC Davis
11:05 a.m. – 12:00 p.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
12:00 – 1:30 p.m.	All	LUNCH BREAK	

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:20 p.m.	Graduate & Undergraduate Students	Teamwork 1 Discussion Session 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 Shadira Gordon , PhD Student in Epidemiology Marta Carreño Gútiez , MPVM, PhD Student in Epidemiology Jose Pablo Gomez V , DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis
2:30 – 3:10 p.m.	All	One Health Development in Europe	Dr. Wim van der Poel Professor and Research Leader in Emerging and Zoonotic Viruses, Wageningen Bioveterinary Research, Wageningen University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 a.m.	All	How to Pursue a One Health Career Goal and Create a Chinese One Health Alliance: An Undergraduate's Journey of Discovery	Ms. Zou Yuntong Bachelor of Veterinary Medicine, Nanjing Agricultural University; Exchange Bachelor student of Molecular and Genetics Biology Aarhus University; Summer student at Structural Biology Department, McGill University, Canada
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. – 12:00 p.m.	All	Soil Health: Linking Ecosystem Health to Human and Animal Health: The Challenges and Opportunities	Dr. Jorge Rodrigues Professor, Department of Land, Air and Water Resources, University of California, Davis
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:10 p.m.	All	A One Health Approach to Understanding Starch Functionality and Applications	Dr. Harold Corke Professor, Department of Biotechnology and Food Engineering, Guangdong Technion Israel Institute of Technology
2:20 – 3:00 p.m.	All	One Health: An Interdisciplinary Overview	Dr. Yong Sam Jung Professor, Chief Scientist, Jiangsu Foreign Expert Workstation in One Health, College of Veterinary Medicine, Nanjing Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 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
10:00 – 11:00 a.m.	All	Study of Infection and Contamination of Plants (Model and Crop) with Plant and Human Pathogens	Dr. David Bridges PhD student in Plant Biology, Department of Plant Sciences, University of California, Davis
11:00 a.m. – 12:00 p.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
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:10 p.m.	All	Essay Writing	Dr. June Barrera DVM, MPVM Candidate, School of Veterinary Medicine, University of California, Davis
2:20 – 3:00 p.m.	All	Soil pollution and food safety	Dr. Fangjie Zhao Professor, College of Resources and Environmental Sciences, Nanjing Agricultural University/The IFA Norman Borlaug Plant Nutrition Award Winner 2022

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 a.m.	All	The One Health Opportunities I Met in the Past 5 Years	Ms. Siqi Gigi Wang Bachelor of Veterinary Medicine, Nanjing Agricultural University; Master student in Preventive Veterinary Medicine (MPVM), College of Veterinary Medicine, University of California, Davis
10:00 – 11:00 a.m.	All	Zoonotic Disease in Livestock - Working Through a Case of Calf Scours	Dr. Sarah M. Depenbrock Assistant Professor and Assistant Agronomist, Department of Medicine & Epidemiology, School of Veterinary Medicine, University of California, Davis
11:00 a.m. – 12:00 p.m.	All	Overview of Public Health Related to Foodborne Diseases Associated with Produce	Dr. Michele Jay-Russell Program Manager, Western Center for Food Safety, University of California, Davis
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:20 p.m.	Graduate & Undergraduate Students	Teamwork 2 Building an Interdisciplinary Collaboration Group - Emphasizing Interdisciplinary Cooperation, which is an Approach to Address Public Safety Issues	UC Davis Facilitators: June Barrera , DVM, MPVM Peerawat Chintrakulchai , PhD Student in Epidemiology Margaux Ocampo , Pharmaceutical Chemistry Research Assistant Shadira Gordon , PhD Student in Epidemiology Marta Carreño Gútiérrez , MPVM, PhD Student in Epidemiology Jose Pablo Gomez V , DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis
2:30 – 3:10 p.m.	All	Global Strategies/Initiatives on Prevention and Control of One Health Diseases	Dr. Chang Cai One Health Specialist, UN FAO

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 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
10:00 a.m. – 12:00 p.m.	All	One Health Poster Review	Graduate and Undergraduate Student Teams and UC Davis Facilitators: June Barrera , DVM, MPVM Peerawat Chintrakulchai , PhD Student in Epidemiology Margaux Ocampo , Pharmaceutical Chemistry Research Assistant Shadira Gordon , PhD Student in Epidemiology Marta Carreño Gútiez , MPVM, PhD Student in Epidemiology Jose Pablo Gomez V , DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:10 p.m.	All	Vaccine technology to control one health diseases	Dr. Lorne Babiuk Professor, Faculty of Agricultural, Life and Environmental Science, University of Alberta, Canada Fellow of the Royal Society of Canada
2:20 – 3:00 p.m.	All	One Health in AMR Research	Dr. Jianzhong Shen Professor, College of Veterinary Medicine, China Agricultural University Fellow of Chinese Academy of Engineering
3:10 – 3:25 p.m.	All	Colloidal Manganese Salt Improves the Efficacy of Rabies Vaccines in Mice, Cats, and Dogs	Ms. Wang Zongwei PhD Candidate, College of Veterinary Medicine, Huazhong Agricultural University
3:25 – 3:40 p.m.	All	Agriculture Biomass-based Phase Change Fibers for Smart Personal Thermal Management	Ms. Xueting Zhu Master Candidate, School of Textile Engineering and Academy of Art, Anhui Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 a.m.	All	Overview of UC Davis School of Veterinary Medicine Community Practice	Dr. Ilana Halperin Health Sciences Associate Professor of Clinical Medicine & Epidemiology, School of Veterinary Medicine University of California, Davis
10:00 – 11:00 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
11:00 a.m. – 12:00 p.m.	All	Leptospirosis as a One Health Issue in Companion Animals	Dr. Jane Sykes Professor, Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:20 p.m.	Graduate & Undergraduate Students	Teamwork 3 Structure of the Final Presentation – Determining One Health Issue, the Approach to Address the Problem, and the Short-term and Long-term Solutions	UC Davis Facilitators: June Barrera , DVM, MPVM Peerawat Chintrakulchai, PhD Student in Epidemiology Margaux Ocampo, Pharmaceutical Chemistry Research Assistant Shadira Gordon, PhD Student in Epidemiology Marta Carreño Gútiérrez , MPVM, PhD Student in Epidemiology Jose Pablo Gomez V , DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis
2:30 – 3:10 p.m.	All	Tick-borne Zoonotic Diseases	Dr. Kassegne Kokouvi Assistant Professor, School of Global Health, Shanghai Jiao Tong University
3:20 – 4:00 p.m.	All	Vector-borne Diseases and Its Transmission by Migrating Birds	Dr. Yuan Fang Associate Professor, School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University / Assistant Researcher, National Institute of Parasitic Diseases at China CDC

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 a.m.	All	Nutrition and GI Diseases in Pigs	Dr. Yanhong Liu Associate Professor of Animal Nutrition, Department of Animal Science, University of California, Davis
10:00 – 11:00 a.m.	All	Overview of the Development of a Risk Assessment for Bovine Respiratory Disease (BRD) in Dairy Calves	Dr. Sharif Aly Professor of Epidemiology and Biostatistics with UC Davis School of Veterinary Medicine's Veterinary Medicine Teaching and Research Center in Tulare, and Professor in the Department of Population Health, School of Veterinary Medicine, University of California, Davis
11:00 a.m. – 12:00 p.m.	All	Impact of Cambodian Applied Veterinary Epidemiology Training Program on Animal Disease Surveillance and Outbreak Response: One Health Approach 2004-2022	Dr. Bunna UM Veterinary-Health Specialist Part-time Lecturer, Faculty of Veterinary Medicine, Royal University of Agriculture – CAMBODIA
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:20 p.m.	All	Strategies to Implement One Health Approach in the Area of Food Waste Valorization	Dr. Yigal Achmon Associate Professor, Department of Biotechnology and Food Engineering, Guangdong Technion Israel Institute of Technology
2:30 – 3:10 p.m.	All	One Health Disease Surveillance Technologies	Dr. José Gonzales, Researcher-Epidemiology, Wageningen University & Research

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 a.m.	All	One Health for Food Systems	Dr. Sara Garcia Assistant Project Scientist Department of Population Health and Reproduction School of Veterinary Medicine University of California, Davis
10:00 – 11:00 a.m.	All	Water system and disease transmission(TBC)	Dr. Natalie Prystajeky Clinical Associate Professor, UBC, Environmental Public Health Microbiologist at Provincial Health Services Authority and University of British Columbia, British Columbia Center for Disease Control, Canada
11:00 a.m. – 12:00 p.m.	All	Overview of Wildlife Programs at the One Health Institute	Dr. Kirsten Gilardi Health Science Clinical Professor, Department of Medicine & Epidemiology, School of Veterinary Medicine, University of California, Davis
12:00 – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:10 p.m.	All	One Health Development in New Zealand	Dr. Joanna McKenzie Specialist in One Health Epidemiology and International Development, Massey University
2:10 – 2:25 p.m.	All	Isolation, Identification and Preliminary Application of Phage vB_KpnP_B1 of Highly Pathogenic Klebsiella Pneumoniae from Swine	Mr. Congyang Du Veterinarian, College of Veterinary Medicine, Henan Agricultural University
2:25 – 2:40 p.m.	All	Research Progress on Secreted Proteins of Cryptosporidium parvum	Ms. Na Li Master Candidate, College of Veterinary Medicine, Henan Agricultural University

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 – 10:00 a.m.	All	The Challenges of Antimicrobial Resistance and Zoonoses in Companion Animal Practice	Dr. Angela Braun Associate Veterinarian Countryside Veterinary Clinic: Mission Veterinary Partners (MVP), Appleton, WI
10:00 a.m. – 12:00 p.m.	All	Wheel of One Health	Mr. Gregory Wlasiuk E – Learning Curriculum Designer, and Ms. Heather Johnson Instructional Systems Designer, Western Institute for Food Safety and Security University of California, Davis
12:00 a.m. – 1:30 p.m.	All	LUNCH BREAK	
ONE HEALTH FORUM AFTERNOON SESSION			
1:30 – 2:20 p.m.	Graduate & Undergraduate Students	Teamwork 4 Preparation for the Final Reports	UC Davis Facilitators: June Barrera , DVM, MPVM Peerawat Chintrakulchai , PhD Student in Epidemiology Margaux Ocampo , Pharmaceutical Chemistry Research Assistant Shadira Gordon , PhD Student in Epidemiology Marta Carreño Gútiérrez , MPVM, PhD Student in Epidemiology Jose Pablo Gomez V , DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis

TIME	PARTICIPANTS	SUBJECT	SPEAKER
ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION			
9:00 a.m. – 9:10 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. – 9:17 a.m.		Closing Remarks	Dr. Xiaonong Zhou Dean, School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine
9:18a.m. – 9:25 a.m.	All	Closing Remarks	Dr. Jun Han Associate Dean for Research and International Communications and Professor of Virology, Department of Preventive Veterinary Medicine, China Agricultural University College of Veterinary Medicine
9:26 a.m. – 9:30 a.m.		Closing Remarks	Dr. Yingjuan Qian Professor, Prevention of Preventive Veterinary Medicine, Nanjing Agricultural University One Health Center NAU-UC Davis
9:35 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. YIGAL ACHMON**

Associate Professor, Department of Biotechnology and Food Engineering, Guangdong Technion Israel Institute of Technology
 BSc in Biochemistry and Food Science from the Faculty of Agriculture at the Hebrew University of Jerusalem
 PhD in Biotechnology and Food Engineering from the Technion – Israel Institute of Technology
 Postdoctoral Researcher at University of California, Davis

Research Focus: Food sustainability, Food microbiomes, Food volatomes, Food spoilage
 Advanced food shelf-life simulation, Soil biosolarization, High solid anaerobic digestion.

**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

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.

**DR. LORNE BABIUK**

Professor, Faculty of Agricultural, Life and Environmental Science, University of Alberta, Canada

Officer of the Order of Canada, Fellow of the Infectious Disease Society of America, Fellow of the Canadian Academy of Health Sciences, Fellow of the Royal Society of Canada, Fellow of the National Academy of Inventors (USA), Member of the European Academy of Sciences and an Honorary Fellow of the Royal College of Physicians and Surgeons of Canada

PhD University of British Columbia, Department of Microbiology, Virology
 D.Sci. University of Saskatchewan, Department of Veterinary Microbiology

Research Focus: Specializes in immunology, pathogenesis, virology, molecular virology, and vaccinology, and is a world leader in Canadian vaccine research, a global authority in infectious diseases- particularly virology, immunology, and vaccine delivery.

Babiuk founded an internationally recognized research institute, the vaccine and infectious.disease organization (VIDO).

**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.

CONFERENCE SPEAKERS



DR. ANGELA BRAUN

Associate Veterinarian
Countryside Veterinary Clinic: Mission Veterinary Partners (MVP), Appleton, WI

DVM, University of Wisconsin-Madison
BS (Conservation Biology and German), University of Wisconsin, Madison
Global Health Certificate, University of Wisconsin Madison

Clinical Focus: Companion animal medicine with interests in preventive medicine, dermatology, dentistry, zoonotic diseases, clinical infection and protection control strategies and client education.



MR. DAVID BRIDGES

PhD student in Plant Biology, Department of Plant Sciences, University of California, Davis

Research Advisor: Dr. Maeli Melotto

MS Food Science and Human Nutrition, University of Maine
BS Biology and Ecology, University of Maine

Research Focus: Foodborne pathogens, post-harvest processing, plant-microbe interactions.



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.



DR. CHANG CAI

UN FAO One Health Specialist
Adjunct Associate Professor at Murdoch University Australia

Master in Veterinary Surveillance at Murdoch University
PhD at Murdoch University

Area of Focus: Transboundary animal diseases, risk assessment, disease modelling, AMR risk analysis using one health approach; Big data analysis using artificial intelligence.

CONFERENCE SPEAKERS


DR. HAROLD CORKE

Professor, Department of Biotechnology and Food Engineering,
Guangdong Technion Israel Institute of Technology

PhD in Plant Genetics, Weizmann Institute of Science in Israel

Research Focus: Starch Surface Nanotexture and Sensory Quality; Development of New Functional Materials from Crop Plants; Food Safety Management; Industry Problem-Solving; Crop Quality Under Climate Change.


DR. SARAH DEPENBROCK

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

BS, College of Biological Sciences, UC Davis, CA
DVM, School of Veterinary Medicine, UC Davis, CA
MS, The Ohio State University, Department of Veterinary Clinical Sciences

Research Focus: Antimicrobial use and resistance in livestock, particularly as relates to bovine respiratory disease and calf management practices. Residue investigation in livestock.


DR. YUAN FANG

Associate Researcher
National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention (Chinese Center for Tropical Diseases Research)
Adjunct Associate Researcher,
School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine

PhD, East China Normal University
Joint-PhD, University of California, Berkeley, CA
BSc, Zhejiang Normal University

Research Focus: Fang is an associate researcher of Department of Vector-borne Tropical Diseases at NIPD, China CDC where her research direction covers a wide range of interests, including vector-borne disease surveillance, meta-virome, molecular phylogeny, and insecticide resistance monitoring, with the focus on mosquito-, and tick-borne diseases.


DR. SARA GARCIA

Assistant Project Scientist
Department of Population Health and Reproduction
School of Veterinary Medicine
University of California, Davis

BS in Genetics, University of California, Davis
PhD in Integrative Pathobiology, University of California, Davis

Research Focus: Food safety, microbiology, and molecular genetics. Dr. Garcia has worked with academic and industry partners to influence best practices and guidelines for the application of technology in food safety and food systems.

CONFERENCE SPEAKERS

**DR. KIRSTEN GILARDI**

Health Science Clinical Professor
Department of Medicine & Epidemiology, School of Veterinary Medicine
University of California, Davis

BA, University of California, Santa Cruz, Stevenson College
DVM, University of California, Davis, School of Veterinary Medicine

Research Focus: Dr. Gilardi's research focuses on the health of free-living wildlife, with a particular emphasis on diseases affecting threatened and endangered species and populations living in close proximity to people. Her area of expertise is primate medicine, and as director of the Gorilla Doctors program, she spends much of her time overseeing the provision of in situ veterinary care to human-habituated mountain and Grauer's gorillas, as well as collaborative research to better understand the diseases that cause morbidity and mortality and threaten the sustainability of their small populations.

**DR. JOSÉ GONZALES**

Researcher-Epidemiology,
Wageningen Bioveterinary Research, Wageningen University & Research,
Netherlands.

DVM. UAGRM, Bolivia
MSc in International Animal Health at The University of Edinburgh
PhD at Utrecht University in the Netherlands.

Research Focus: His research work has focused on studying the infection dynamics of infectious diseases, the validation of diagnostic tests and the design and evaluation of surveillance programs. He has worked on diseases such as Avian Influenza, Foot-and-mouth disease, Brucellosis and Trypanosomiasis.

**DR. ILANA HALPERIN**

Health Sciences Associate Professor of Clinical Medicine & Epidemiology, Department of Medicine & Epidemiology, School of Veterinary Medicine, University of California, Davis

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

**DR. JUN HAN**

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

DVM, China Agricultural University
MS, China Agricultural University
PhD, University of Minnesota-Twin Cities
Postdoctoral Fellow, Penn State University

Areas of Focus: Current research interests focus on the replication and pathogenesis of nidoviruses (PRRRSV and PEDV) and herpesviruses (PRV and HSV-1) with an aim to promote animal and human health through better understanding the viruses.

CONFERENCE SPEAKERS



DR. MICHELE JAY-RUSSELL

Program Manager for the Western Center for Food Safety, University of California, Davis

DVM, University of California, Davis
PhD in Comparative Pathology, University of California, Davis

Research Focus: Food safety, public health, molecular epidemiology of environmental enteric pathogens from domestic and wildlife species affecting people.



MS. HEATHER JOHNSON

Instructional Systems Designer, Western Institute for Food Safety and Security

MS in Microbiology, University of California, Davis

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



DR. YONG SAM JUNG

DR. YONG SAM JUNG

Professor in Preventive Veterinary Medicine, Chief Scientist of Jiangsu Foreign Expert Workstation in One Health, College of Veterinary Medicine, Nanjing Agricultural University

Vice president of Korean scientists and engineers association in China

Project Scientist, School of Veterinary Medicine, UC Davis, CA
Post-Doc, Center for Comparative Oncology, School of Veterinary Medicine, UC Davis, CA
Researcher, Institute of Biotechnology at Chungnam National University, South Korea
MS and PhD in Genetic Engineering, PaiChai University, South Korea

Research Focus: Characterizes the role of protein homeostasis in virus pathogenesis, including ASFV (African Swine Fever Virus), coronavirus and influenza virus; Manages development of diagnosis, antiviral agents, and vaccines for emerging and reemerging viruses.

CONFERENCE SPEAKERS

**DR. KOKOUVI KASSEGNE**

Assistant Professor, Pathogenic infection and host immunity, Department of Tropical and Infectious Diseases, School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University

Research Fellow, Jiangnan University, School of Medicine, China.
Postdoctoral Research Fellow, National Institute of Parasitic Diseases, China CDC, China.

PhD, Zhejiang University, School of Medicine, China.
MSc, University of Lomé, Faculty of Sciences, Togo.
BSc, University of Lomé, Faculty of Sciences, Togo

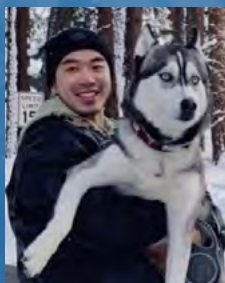
Research Focus: Use of immunologic, genetic, and high-throughput tools for the control of protozoan diseases, especially malaria. Current research is targeted to Plasmodium-human host interactions—the roles surface proteins play in malaria severity/immunity and understanding of functional variations of malaria blood-stage molecules in the development of vaccines against severe malaria and diagnostics. He also has a keen interest in tick-borne zoonotic infections and currently leads a study on transmission risks of tick-borne diseases in Chongming Island of Shanghai, China.

**DR. YANHONG LIU**

Associate Professor of Animal Nutrition, Department of Animal Science, University of California, Davis

BS, China Agricultural University, (Biological Science)
MS, China Agricultural University, (Animal Nutrition)
PhD, University of Illinois, Urbana-Champaign, (Animal 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.

**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.

**DR. BEATRIZ MARTÍNEZ-LÓPEZ**

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

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.

CONFERENCE SPEAKERS

**DR. JOANNA MCKENZIE**

Specialist in One Health Epidemiology and International Development, Massey University; A Global One Health consultant to the UK Department of Health and Social Care's Fleming Fund AMR program in Africa and Asia; and a One Health Specialist for the COMBAT-AMR program to mitigate AMR in the South Pacific, funded by the Department of Foreign Affairs and Trade, Australia.

PhD (Epidemiology), Massey University, NZ
 Master of Preventive Veterinary Medicine (Epidemiology), University of California, Davis, USA
 Bachelor of Veterinary Science, Massey University, NZ

Research Focus: Expertise and experience in implementing AMR and infectious disease surveillance in resource-limited settings. McKenzie has led multi-disciplinary zoonotic disease research teams in New Zealand and South Asia for the past 16 years. Her major interest and expertise are in research that informs policy for controlling endemic and emerging zoonotic diseases, antimicrobial resistance and the ecology and epidemiology of diseases involving wildlife reservoirs.

**DR. BENNIE OSBURN**

Emeritus Dean, the School of Veterinary Medicine, UC Davis; Currently, Director of Outreach and Training, at the Western Institute for Food Safety and Security (WIFSS) at the University of California, Davis

He served as Associate Dean for Research and Graduate Education for 20 years before assuming the role as Dean of the School of Veterinary Medicine, UC Davis, for 15 years.

Research Focus: Infectious and immune mediated diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents. Current focus on One Health educational approaches to food safety and security, and all hazard disasters, facilitating a better understanding of the complex interactions of humans, animals, and the environment.

**DR. MARGUERITE PAPPAIONOU**

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, University of California, Davis
 Diplomate, 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.

CONFERENCE SPEAKERS

**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. NATALIE PRYSTAJEK**

Clinical Associate Professor, UBC, Environmental Public Health Microbiologist at Provincial Health Services Authority and University of British Columbia

PhD, University of British Columbia.
Watershed Management, University of British Columbia. Certificate.
BSc, University of Calgary. Cellular, Molecular and Microbiology (CMMB) and Environmental Science – Biology Focus.

Research Focus: Public health, environmental microbiology, drinking water, food quality, genomics, and molecular diagnostics. Her work is at the intersect of environmental exposures (food and water) and clinical outcomes. She uses emerging technologies to improve routine surveillance and outbreak investigations for foodborne and waterborne pathogens and developing new water quality tests using metagenomics, targeted resequencing of wetland sediments to study the emergence of avian influenza strains and whole genome sequencing of Giardia and Salmonella.

**DR. YINGJUAN QIAN**

Professor, Leading scientist at NAU-UC Davis One Health Center, Associate Director of the Joint International Laboratory of Animal Health and Food Safety, Ministry of Education, China.

DVM, Nanjing Agricultural University
Master of Preventive Veterinary Medicine, Nanjing Agricultural University
PhD in Cell Biology from University of Alabama at Birmingham
Postdoc, School of Veterinary Medicine, UC Davis

Research Focus: Virus-host interactions to understand viral pathogenesis, i.e., ASFV, as well as developing prevention and control methods.

**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



DR. JIANZHONG SHEN

Professor, Academician of Chinese Academy of Engineering; Dean of College of Veterinary Medicine China Agricultural University

PhD, Applied Chemistry Specialty in College of Basic Science and Technology, China Agricultural University
MS, Veterinary Pharmacology and Toxicology, Beijing Agricultural University
DVM, Beijing Agricultural University

Research Focus: Animal-derived food safety detection technology; and emergence, transmission, risk assessment of antibiotic resistance in bacteria of animal origin and ecological toxicology of veterinary medicine.



DR. JANE SYKES

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

BVSc (Hons), University of Melbourne, Victoria, Australia
PhD, University of Melbourne, Australia
MBA, University of Georgia Terry School of Business

Area of Focus: Infectious diseases of dogs and cats, especially those of public health significance (leptospirosis, fungal diseases, vector-borne diseases, antimicrobial resistant bacterial infections).



DR. BUNNA UM

Veterinary-Health Specialist; Part time Lecturer, Faculty of Veterinary Medicine, Royal University of Agriculture – CAMBODIA

DVM, The Higher Agricultural Sciences Institute, Cuba
MSc. in Tropical Veterinary Medicine, James Cook University, Australia
MSc. in International Animal Health, The University of Edinburgh, UK

Research Focus: Animal reproduction and zoonotic disease such as Avian Influenza, Rabies, etc.



DR. WIM VAN DER POEL

Professor and Research Leader in Emerging and Zoonotic Viruses, Wageningen Bioveterinary Research, Wageningen University
Principal investigator within the Netherlands Centre of One Health (NCOH); member of the Project Management Board of the European Joint Program One Health and coordinator of the EPIZONE European Research Group, the network on epizootic animal diseases research
DVM; PhD in Virology, Utrecht

Research Focus: New and emerging veterinary viruses, Foodborne and Zoonotic viruses, including Hepatitis E virus, and 'Global One Health'.

CONFERENCE SPEAKERS



MS. SIQI WANG (GIGI)

Master student in Preventive Veterinary Medicine (MPVM), College of Veterinary Medicine, University of California, Davis

Research Advisor: Dr. Emmanuel Okello

BS, Veterinary Medicine, Nanjing Agricultural University

Area of Focus: Veterinary epidemiology, antibiotic residues and resistant bacteria on the dairy environment.



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.



MS. ZOU YUNTONG

Bachelor of Veterinary Medicine, Nanjing Agricultural University; Exchange bachelor student of Molecular and Genetics Biology Aarhus University; Summer student at Structural Biology Department, McGill University, Canada

Research Focus: Exploration of health research career through host-microbe interactions, firstly standing on the pathogen, and then the host, and finally the overall view of One Health.



DR. FANGJIE ZHAO

Professor, College of Resources and Environmental Sciences, Nanjing Agricultural University

The IFA Norman Borlaug Plant Nutrition Award Winner 2022

PhD, University of Newcastle, U.K.

MSc, Nanjing Agricultural University

BSc, Fujian Agricultural & Forestry University

Research Focus: Biogeochemistry of essential trace elements and toxic metals/metalloids in soil-plant systems, molecular mechanisms of trace element uptake by plants, biofortification of essential micronutrients and bioremediation of contaminated soils.

CONFERENCE SPEAKERS



DR. XIAONONG ZHOU

Vice Dean, School of Global Health, Chinese Center for Tropical Diseases Research,
Shanghai Jiao Tong University School of Medicine
Director, One Health Center, Shanghai Jiao Tong University-The University of Edinburgh

PhD from Copenhagen University, Denmark

Research Focus: His professional works are across the fields of ecology, population biology, and epidemiology of tropical diseases. He has led more than 10 research projects in collaboration with multi-institutions at national and international levels, including Major Program of the National Natural Science Foundation of China, National Science and Technology Major Project, projects with WHO and International Development Research Centre (IDRC), Canada, in the field of climate change, control strategies, determinants and innovative modeling of disease transmission, and intervention assessment.

A large, blue, spherical water tower stands against a clear blue sky. The tower is supported by a complex metal lattice structure. The words "UC DAVIS" are painted in large, bold, blue letters across the middle of the sphere.

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