ONE HEALTH
FOOD SAFETY, AGRICULTURE AND ANIMAL HEALTH

CONFERENCE SCHEDULE
JANUARY 30 - FEBRUARY 10

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.
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<th>SPEAKER</th>
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<tr>
<td>9:00 – 10:00 a.m.</td>
<td>All</td>
<td>Welcome and Introduction of One Health</td>
<td><strong>Dr. Bennie Osburn</strong>&lt;br&gt;Director, Outreach and Training, Western Institute for Food Safety and Security, Dean Emeritius, School of Veterinary Medicine, University of California, Davis</td>
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<tr>
<td>10:00 – 10:10 a.m.</td>
<td>All</td>
<td>Opening Remarks</td>
<td><strong>Dr. Jianzhong Shen</strong>&lt;br&gt;Academician of Chinese Academy of Engineering, Dean, College of Veterinary Medicine, China Agricultural University</td>
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<tr>
<td>10:10 – 10:30 a.m.</td>
<td>All</td>
<td>Welcome and Overview of One Health Research and Education at Shanghai Jiao Tong University</td>
<td><strong>Dr. Xiaonong Zhou</strong>&lt;br&gt;Dean, School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine</td>
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<tr>
<td>10:30 – 10:50 a.m.</td>
<td>All</td>
<td>Welcome and Overview of One Health Research and Education at China Agricultural University</td>
<td><strong>Dr. Jun Han</strong>&lt;br&gt;Associate Dean for Research and International Communications and Professor of Virology, Department of Preventive Veterinary Medicine, China Agricultural University College of Veterinary Medicine</td>
</tr>
<tr>
<td>10:50 a.m. – 11:05 a.m.</td>
<td>All</td>
<td>Welcome and Overview of One Health Research and Education at Nanjing Agricultural University</td>
<td><strong>Dr. Yingjuan Qian</strong>&lt;br&gt;Professor, Prevention of Preventive Veterinary Medicine, Nanjing Agricultural University One Health Center NAU-UC Davis</td>
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<td>11:05 a.m. – 12:00 p.m.</td>
<td>All</td>
<td>The Power of One</td>
<td><strong>Ms. Chris Brunner</strong>&lt;br&gt;Communications and International Programs Director, Western Institute for Food Safety and Security, University of California, Davis</td>
</tr>
<tr>
<td>12:00 – 1:30 p.m.</td>
<td>All</td>
<td>LUNCH BREAK</td>
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## 2023 ONE HEALTH CONFERENCE SCHEDULE

### WEEK 1: MONDAY, JANUARY 30

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<th>TIME</th>
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| 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 |
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| 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          | Addressing the urgent health challenges of climate change and ecosystem degradation from a One Health perspective: What can Veterinarians Contribute? | **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  |
## 2023 ONE HEALTH CONFERENCE SCHEDULE

### WEEK 1: WEDNESDAY, FEBRUARY 1

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<td><strong>ONE HEALTH INTERDISCIPLINARY EDUCATION MORNING SESSION</strong></td>
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<td>9:00 – 10:00 a.m.</td>
<td>All</td>
<td>Introduction of Problem-Based Learning and Overview of One Health Poster Project</td>
<td><strong>Ms. Heather Johnson</strong>&lt;br&gt;Instructional Designer, Western Institute for Food Safety and Security, University of California Davis</td>
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<td>10:00 – 11:00 a.m.</td>
<td>All</td>
<td>Study of Infection and Contamination of Plants (Model and Crop) with Plant and Human Pathogens</td>
<td><strong>Dr. David Bridges</strong>&lt;br&gt;PhD student in Plant Biology, Department of Plant Sciences, University of California, Davis</td>
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<td>11:00 a.m. – 12:00 p.m.</td>
<td>All</td>
<td>A “Bad Metal” Primer: Examples of Metals that Pollute Our Environment and Adversely Affect Human and Animal Health</td>
<td><strong>Dr. Robert Poppenga</strong>&lt;br&gt;Professor, California Animal Health and Food Safety Laboratory and Department of Molecular Biosciences, School of Veterinary Medicine, University of California, Davis</td>
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<td>12:00 – 1:30 p.m.</td>
<td>All</td>
<td>LUNCH BREAK</td>
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<td><strong>ONE HEALTH FORUM AFTERNOON SESSION</strong></td>
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<td>1:30 – 2:10 p.m.</td>
<td>All</td>
<td>Essay Writing</td>
<td><strong>Dr. June Barrera</strong>&lt;br&gt;DVM, MPVM Candidate, School of Veterinary Medicine, University of California, Davis</td>
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<td>2:20 – 3:00 p.m.</td>
<td>All</td>
<td>Soil pollution and food safety</td>
<td><strong>Dr. Fangjie Zhao</strong>&lt;br&gt;Professor, College of Resources and Environmental Sciences, Nanjing Agricultural University/The IFA Norman Borlaug Plant Nutrition Award Winner 2022</td>
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### One Health Interdisciplinary Education Morning Session

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| 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

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<th>Time</th>
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<th>Speaker</th>
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| 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 Chitrakulchai, PhD Student in Epidemiology  
Margaux Ocampo, Pharmaceutical Chemistry Research Assistant  
Shadira Gordon, PhD Student in Epidemiology  
Marta Carreño Gutiérrez, 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 |
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<td>9:00 – 10:00 a.m.</td>
<td>All</td>
<td>Communicating Scientific Research to the Public</td>
<td>Mr. Gregory Wlasiuk, E-Learning Curriculum Designer; and Ms. Heather Johnson, Instructional Systems Designer, UC Davis Western Institute for Food Safety and Security</td>
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<tr>
<td>10:00 a.m. – 12:00 p.m.</td>
<td>All</td>
<td>One Health Poster Review</td>
<td>Graduate and Undergraduate Student Teams and UC Davis Facilitators: Peerawat Chintrakulchai, PhD Student in Epidemiology, Margaux Ocampo, Pharmaceutical Chemistry Research Assistant, Shadira Gordon, PhD Student in Epidemiology, Marta Carreño Gutiérrez, MPVM, PhD Student in Epidemiology, Jose Pablo Gomez V, DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis</td>
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<td>12:00 – 1:30 p.m.</td>
<td>All</td>
<td>LUNCH BREAK</td>
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<td>1:30 – 2:10 p.m.</td>
<td>All</td>
<td>Vaccine technology to control one health diseases</td>
<td>Dr. Lorne Babiuk, Professor, Faculty of Agricultural, Life and Environmental Science, University of Alberta, Canada, Fellow of the Royal Society of Canada</td>
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<td>2:20 – 3:00 p.m.</td>
<td>All</td>
<td>One Health in AMR Research</td>
<td>Dr. Jianzhong Shen, Professor, College of Veterinary Medicine, China Agricultural University, Fellow of Chinese Academy of Engineering</td>
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<td>3:10 – 3:25 p.m.</td>
<td>All</td>
<td>Colloidal Manganese Salt Improves the Efficacy of Rabies Vaccines in Mice, Cats, and Dogs</td>
<td>Ms. Wang Zongwei, PhD Candidate, College of Veterinary Medicine, Huazhong Agricultural University</td>
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<td>3:25 – 3:40 p.m.</td>
<td>All</td>
<td>Agriculture Biomass-based Phase Change Fibers for Smart Personal Thermal Management</td>
<td>Ms. Xueting Zhu, Master Candidate, School of Textile Engineering and Academy of Art, Anhui Agricultural University</td>
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| 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**

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| 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  
Margarux Ocampo, Pharmaceutical Chemistry Research Assistant  
Shadira Gordon, PhD Student in Epidemiology  
Marta Carreño Gutiérrez, 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. Kassagne 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 |
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| 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 |
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<td>9:00 – 10:00 a.m.</td>
<td>All</td>
<td>One Health for Food Systems</td>
<td><strong>Dr. Sara Garcia</strong>&lt;br&gt;Assistant Project Scientist&lt;br&gt;Department of Population Health and Reproduction&lt;br&gt;School of Veterinary Medicine&lt;br&gt;University of California, Davis</td>
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<td>10:00 – 11:00 a.m.</td>
<td>All</td>
<td>Water system and disease transmission (TBC)</td>
<td><strong>Dr. Natalie Prystajecky</strong>&lt;br&gt;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</td>
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<td>11:00 a.m. – 12:00 p.m.</td>
<td>All</td>
<td>Overview of Wildlife Programs at the One Health Institute</td>
<td><strong>Dr. Kirsten Gilardi</strong>&lt;br&gt;Health Science Clinical Professor, Department of Medicine &amp; Epidemiology, School of Veterinary Medicine, University of California, Davis</td>
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<td>12:00 – 1:30 p.m.</td>
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<td>1:30 – 2:10 p.m.</td>
<td>All</td>
<td>One Health Development in New Zealand</td>
<td><strong>Dr. Joanna McKenzie</strong>&lt;br&gt;Specialist in One Health Epidemiology and International Development, Massey University</td>
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<tr>
<td>2:10 – 2:25 p.m.</td>
<td>All</td>
<td>Isolation, Identification and Preliminary Application of Phage vB_KpnP_B1 of Highly Pathogenic Klebsiella Pneumoniae from Swine</td>
<td><strong>Mr. Congyang Du</strong>&lt;br&gt;Veterinarian, College of Veterinary Medicine, Henan Agricultural University</td>
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<td>2:25 – 2:40 p.m.</td>
<td>All</td>
<td>Research Progress on Secreted Proteins of Cryptosporidium parvum</td>
<td><strong>Ms. Na Li</strong>&lt;br&gt;Master Candidate, College of Veterinary Medicine, Henan Agricultural University</td>
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| 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                                                            |                                                                         |
| 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 Gutierrez, MPVM, PhD Student in Epidemiology  
Jose Pablo Gomez V, DVM, MPVM, PhD, Post-doc at Center for Disease Modeling and Surveillance, UC Davis |
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<td>9:00 a.m. – 9:10 a.m.</td>
<td>All</td>
<td>Closing Remarks</td>
<td><strong>Dr. Bennie Osburn</strong>&lt;br&gt;Director, Outreach and Training, Western Institute for Food Safety and Security, Dean Emeritus, School of Veterinary Medicine, University of California, Davis</td>
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<td>9:10 a.m. – 9:17 a.m.</td>
<td>All</td>
<td>Closing Remarks</td>
<td><strong>Dr. Xiaonong Zhou</strong>&lt;br&gt;Dean, School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine</td>
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<td>9:18 a.m. – 9:25 a.m.</td>
<td>All</td>
<td>Closing Remarks</td>
<td><strong>Dr. Jun Han</strong>&lt;br&gt;Associate Dean for Research and International Communications and Professor of Virology, Department of Preventive Veterinary Medicine, China Agricultural University College of Veterinary Medicine</td>
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<td>9:26 a.m. – 9:30 a.m.</td>
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<td>Closing Remarks</td>
<td><strong>Dr. Yingjuan Qian</strong>&lt;br&gt;Professor, Prevention of Preventive Veterinary Medicine, Nanjing Agricultural University One Health Center NAU-UC Davis</td>
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<td>9:35 a.m. – 10:20 a.m.</td>
<td>All</td>
<td>Team Final Reports</td>
<td>Teams to Be Announced</td>
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<td>Teams to Be Announced</td>
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<td>11:20 a.m. – 12:00 p.m.</td>
<td>All</td>
<td>Certificate Ceremony</td>
<td><strong>Mr. Taotao (Andy) Lu</strong>&lt;br&gt;PhD Student in Epidemiology, University of California, Davis</td>
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**Congratulations!**
### 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.
**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 prevention 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.
**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

**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.
MS. HEATHER JOHNSON
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. 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
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 (PRRSV and PEDV) and herpesviruses (PRV and HSV-1) with an aim to promote animal and human health through better understanding the viruses.
2023 ONE HEALTH WINTER CONFERENCE

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.

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.

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
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.

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. 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.

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.

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. 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. 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. 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.

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 POPPENGA
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 PRYSTAJEKY
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 as conservation policies for natural forests.
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.

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. 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

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

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: New and emerging veterinary viruses, Foodborne and Zoonotic viruses, including Hepatitis E virus, and ‘Global One Health’.
**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.

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**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.

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**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.

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**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.
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.
ONE HEALTH
FOOD SAFETY, AGRICULTURE AND ANIMAL HEALTH

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