

NAU-UC Davis  
 One Health for Food Safety and Animal Health Symposium  
 University of California, Davis  
 October 10 – 11, 2016



DAY ONE - MONDAY

Date	Time	Activity	Location
10 Oct	9:00 – 9:30	Welcome – <i>Bennie Osburn, WIFSS</i>	1043 Valley
	9:30 – 10:00	Welcome - <i>Jianjun Dai, NAU</i>	1043 Valley
	10:00 – 10:15	BREAK	
	10:15 – 10:35	Overview of One Health & Food Safety – <i>Bennie Osburn, WIFSS</i>	1043 Valley
	10:35 – 10:45	BREAK	1043 Valley
	10:45 – 11:30	Overview of Curricular Framework – <i>John Angelos, WIFSS</i>	1043 Valley
	11:30 – 1:30	LUNCH	2030 Valley
	1:30 – 2:00	Planning Session: Action Items – <i>Bennie Osburn, WIFSS</i> (Joint NAU/UC Davis Faculty Session)	1043 Valley
	2:00 – 4:00	Microbiology Workgroup – <i>Huochun Yao, NAU; Stephen McSorley, Kristin Clothier, Renee Tsohis, UC Davis</i>	1011 Valley
	2:00 – 4:00	Epidemiology Workgroup – <i>Jiarong Xu, NAU; Beatriz Martinez Lopez, Maurice Pitesky, UC Davis</i>	1013 Valley
	2:00 – 4:00	Food Science Workgroup – <i>Zhihong Xin, NAU; Yanhong Liu, Peng Ji, UC Davis</i>	1023 Valley
	2:00 – 4:00	Prataculture, Rangeland & Soil Science – <i>Gaowen Yang, NAU; Jorge Rodrigues, UC Davis</i>	1013 Valley
	2:00 – 4:00	Comparative Oncology Workgroup – <i>Yong Sam Jung, NAU, Xinbin Chen, Michael Kent, Robert Rebhun, UC Davis</i>	2010 Valley

LEADERSHIP MEETINGS

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|-------------|--|-----------|
| 2:00 – 2:30 | Meeting with Dean Lairmore, School of Veterinary Medicine - <i>Jianjun Dai, Jiyong Zhou, Yingjuan Qian, Bennie Osburn</i>                        | MS1B #130 |
| 3:00 – 3:30 | Meeting with Acting Provost Ken Burtis and Associate Vice Provost Fadi Fathallah - <i>Jianjun Dai, Jiyong Zhou, Yingjuan Qian, Bennie Osburn</i> | 573 Mrak  |

## DAY TWO – TUESDAY

Date	Time	Activity	Location
11 Oct	9:00 – 10:30	Curriculum and One Health Center Discussion – <i>Dai, Zhou, Qian, NAU; Osburn, Johnson, Arens, Angelos</i>	1023 Valley
	9:00 – 12:00	Continue Workgroup Laboratory Visits/Prepare on Action Reports Microbiology – 2011 Valley; Epidemiology 2071A Valley; Food Science 2052 Valley; Prataculture, Rangeland & Soil Science 1013 Valley; Comparative Oncology 2013 Valley	Breakout Rooms Valley
	10:30 – 12:00	Tour William R. Pritchard Veterinary Medical Teaching Hospital – <i>Dai, Zhou, Qian, Osburn</i>	VMTH
	12:00 – 12:30	LUNCH	1041 Valley
	12:30 – 12:45	BREAK	
	12:45 – 1:00	Introduction of Action Reports – <i>Bennie Osburn, WIFSS</i>	1041 Valley
	1:00 – 1:15	Microbiology Action Report	1041 Valley
	1:15 – 1:30	Epidemiology Action Report	1041 Valley
	1:30 – 1:45	Food Science Action Report	1041 Valley
	1:45 – 2:00	BREAK	
	2:00 – 2:15	Comparative Oncology Action Report	1041 Valley
	2:15 – 2:30	Prataculture, Rangeland & Soil Science Action Report	1041 Valley
	2:30 – 3:00	Closing Remarks – <i>Bennie Osburn, WIFSS; Jiyong Zhou, NAU</i>	1041 Valley
	5:30 – 8:00	DINNER	Seasons Restaurant Downtown Davis

# WORKSHOP PARTICIPANTS

## John Angelos

Dr. John Angelos is Chair of the Department of Medicine and Epidemiology at the School of Veterinary Medicine and Professor of Veterinary Medicine, Infectious Diseases. His professional interests include internal medicine and infectious diseases of food producing animals and development of improved vaccination/vaccine delivery strategies to support sustainable food production practices. At WIFSS Dr. Angelos serves as a subject matter expert in livestock veterinary practice and food safety. He is a Diplomate of the American College of Veterinary Internal Medicine (Large Animal).

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## Amanda Arens

Dr. Amanda Arens is Program Manager at the Western Institute for Food Safety and Security, (WIFSS), and provides coordination and oversight for outreach projects, and a team of scientific researchers and educational specialists. Additionally, she provides expertise and experience in program development, assessment and evaluation. Dr. Arens has a strong research background in translational medicine and her current position places her at the interface of humans, animals and the environment in a One Health approach to food safety.

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## Ken Burtis

Dr. Ken Burtis is acting provost of the University of California, Davis. He is professor of genetics and past dean of the College of Biological Sciences. In his role of adviser to the chancellor he served as a liaison with key campus constituencies and had a lead role in the 2020 Initiative, which involved strategic planning for campus growth, including enrollment management, facilities planning and academic resources.

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## Xinbin Chen

Dr. Xinbin Chen is Professor at UC Davis Schools of Medicine and Veterinary Medicine. He is leader of the Comparative Oncology Program at the two schools. The comparative oncology program has the goal of drawing on key strengths of UC Davis in animal research pertaining to the disease mechanisms that are implicated in the genesis and progression of cancer. Dr. Chen's research focuses on the function of the p53 family in tumor suppression, development, and aging.

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## Kristin Clothier

Dr. Kristin Clothier is an associate professor of clinical microbiology in the California Animal Health and Food Safety Lab and the School of Veterinary Medicine, Department of Pathology, Microbiology & Immunology. Her research focuses on bacterial respiratory pathogens of ruminants, particularly those that affect small ruminants; Salmonella ecology in environmental samples, particularly those associated with livestock production.

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## Jianjun Dai

Dr. Jianjun Dai is Vice President of Nanjing Agricultural University (NAU). He is a professor in Preventive Veterinary Medicine in College of Veterinary Medicine. His research interest is to identify genes which play critical roles in the infection and adaptation to the host of bacteria, especially *Escherichia Coli*, which causes serious diseases both in human and animals all over the world. He leads a number of research projects funded by National Natural Science Foundation, Ministry of Science and Technology of China. His previous work includes pathogenesis, diagnosis, prevention and control of *Escherichia Coli*.

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## Fadi Fathallah

Dr. Fadi Fathallah, Associate Vice Provost for Global Education and Services, serves as a professor of Biological and Agricultural Engineering and as the UC Davis Study Abroad Faculty Director of the University of California Education Abroad Program (UCEAP) and Independent Programs.

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## Peng Ji

Dr. Peng Ji is assistant adjunct professor in the Department of Animals Science at the University of California, Davis. Dr. Ji is interested in metabolic and infectious diseases and particularly the role of the microbiome's long-term effects on disease resilience and brain development in infants.

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## Heather Johnson

Heather Johnson, M.S., is an instructional systems designer and educational specialist at WIFSS. She oversees the instructional design component of WIFSS training and educational projects in accordance with certification standards that meet local, state and federal agency requirements. She designs blended learning educational materials specifically using principles of adult education.

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## Yong Sam Jung

Dr. Yong Sam Jung is Professor in Preventive Veterinary Medicine at Nanjing Agricultural University. Dr. Jung had completed the postdoctoral research fellow in the Comparative Oncology Center at UC Davis. Dr. Jung's current research is focused on the links between virus and host pathogenic trait using comparative interactomics. He is currently implementing a UPS (ubiquitin proteasome system) dedicated interactomic study mapping interactions between UPS ORFs and a representative collection of oncogenic viruses.

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## Michael Kent

Dr. Michael Kent is director of the Center for Companion Animal Health in the School of Veterinary Medicine at UC Davis where he is responsible for directing the school's companion animal research programs. He is also co-director of the Comparative Cancer Center, co-program leader for the UCDMC Comprehensive Cancer Center's Comparative Oncology Program and a professor in the school's Department of Surgical and Radiological Sciences.

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## Michael Lairmore

Dr. Michael Lairmore is Dean of the School of Veterinary Medicine and oversees all teaching, research and service activities, personnel, facilities and funding resources. His goals include building mission-focused programs that will continue to provide outstanding education for society-ready veterinarians and produce innovative research findings to address important problems ranging from clinical veterinary medicine to public health.

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## Yanhong Liu

Dr. Yanhong Liu is an assistant professor of animal nutrition in the Department of Animal Science at UC Davis. Dr. Liu's research focuses on evaluating dietary effects on pig health by investigating impacts of products now available to the industry and developing new approaches for the industry. Her research team's long-term goal is to help the animal deploy feed-based health technologies to improve animal health.

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## Beatriz Martinez Lopez

Dr. Beatriz Martinez Lopes is Associate Professor in the Department of Medicine and Epidemiology, Agricultural Experiment Station faculty, and Director of the UC Davis Center for Animal Disease Modeling and Surveillance (CADMS). Her specialty focus is on Quantitative Epidemiology: Spatial analysis, Risk analysis, Disease spread models, social network analysis, statistical analysis (both Frequentists and Bayesian). She researches epidemiological modeling and risk assessment for the evaluation of the potential introduction and/or spread of diseases affecting domestic and/or wild animal populations.

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## Stephen McSorley

Dr. Stephen McSorley is a professor of immunology and microbiology in the School of Veterinary Department of Anatomy, Physiology and Cell Biology, and the Center for Comparative Medicine, where he focuses his research on the innate and adaptive immune response to bacterial pathogens and largely uses mouse models of infection with Salmonella and Chlamydia.

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## Bennie Osburn

Dr. Bennie Osburn is Director of Outreach and Training at the Western Institute for Food Safety and Security. He is Dean Emeritus of the School of Veterinary Medicine, UC Davis. Dr. Osburn's research has focused on infectious diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents. He is interested in applying a One Health approach to food safety.

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## Maurice Pitesky

Dr. Maurice Pitesky is a UC cooperative extension specialist in the Department of Population Health and Reproduction in the School of Veterinary Medicine. His research focus is on the application of classic and spatial epidemiology in disease surveillance, food safety management, and other processes associated with poultry health, and the interface of science and policy with respect to food safety and public health.

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## Yingjuan Qian

Dr. Yingjuan Qian is a professor in preventive veterinary medicine in College of Veterinary Medicine, at Nanjing Agricultural University. Dr. Qian received a Master degree in preventive veterinary medicine from Nanjing Agricultural University, a PhD degree in cell biology from University of Alabama at Birmingham, and postdoctoral training in University of California at Davis. Dr. Qian's current research is focused on virus-host interactions to understand how viruses escape host immune surveillance, establish latency and cause transformation of infected cells.

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## Robert Rebhun

Dr. Robert Rebhun is associate director of the Center for Companion Animal Health Cancer Program at the School of Veterinary Medicine, UC Davis. Dr. Rebhun is also an associate professor in the school's Department of Surgical and Radiological Sciences. He works closely with pets with cancer. His research focuses on the biology and therapy of cancer metastasis.

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## Jorges Rodrigues

Dr. Jorge Rodrigues, a professor in the Department of Land, Air and Water Resources Soil has research interests in microbiology, biological regulation of biogeochemical cycles, microbial diversity, land use change, tropical forest conservation and ecology.

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## Renee Tsolis

Dr. Renee Tsolis is a professor in the Department of Medical Microbiology and Immunology in the School of Medicine, and program chair for the Microbiology Graduate Group. Dr. Tsolis uses *Brucella abortus* bacteria to study the factors that are important for persistent infections in chronic diseases. She also studies ways that Salmonella infection in immunocompromised people can lead to complications resulting in septicemia.

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## Zhihong Xin

Dr. Zhihong Xin is a professor of food nutrition and chemist in the Department of Food Quality & Safety, at Nanjing Agricultural University. Dr. Xin's current research is focused on the Food Nutrition and Safety, with an emphasis in finding new bioactive compounds from metabolites of microorganisms, and fruits and vegetables, developing new assay methods for pesticide and veterinary residues in agro-product.

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## Jiarong Xu

Dr. Jiarong Xu is a professor in Preventive Veterinary Medicine, at Nanjing Agricultural University. Dr. Xu got her Master of Science Degree and Ph.D. in Preventive Veterinary Medicine from Nanjing Agricultural University. Dr. Xu's research is focused on animal infectious diseases and epidemiology including identifying emerging and re-emerging pathogens as well as risk analysis.

## Gaowen Yang

Dr. Gaowen Yang is a lecturer in College of Agro-grassland Science, at Nanjing Agricultural University. Dr. Yang received a doctor degree in grassland science at China Agricultural University in 2014. Yang's current research is focused on (1) understanding mechanisms of soil biota, such as arbuscular mycorrhizal fungi, influencing ecosystem functioning, especially soil carbon sequestration, forage productivity, quality and plant diversity (2) using mycorrhizal symbiosis to sustain the rangeland and artificial grassland.

[https://www.researchgate.net/profile/Gaowen\\_Yang](https://www.researchgate.net/profile/Gaowen_Yang)

## Huochun Yao

Dr. Huochun Yao is Director of OIE Reference Laboratory for Swine Streptococcosis. He is a professor of veterinary microbiology and immunology in the College of Veterinary Medicine, Nanjing Agricultural University. His academic program focuses on zoonotic pathogens such as *Streptococcus suis*, pathogenic *E. coli*.

## Jiyong Zhou

Dr. Jiyong Zhou is Dean of College of Veterinary Medicine, NAU. He is a "Yangtze River Scholar," Winner of National Science Fund for Distinguished Young Scholars, professor in Preventive Veterinary Medicine. His research area is molecular virology and immunology. His research group currently focuses on understanding the pathogenic mechanism of several viruses, including PCV2, IBDV, Rabies virus, etc, which threaten animal and human health. He leads a number of research projects funded by National Natural Science Foundation, Ministry of Science and Technology of China, etc.

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