

UC DAVIS
UNIVERSITY OF CALIFORNIA

ONE HEALTH

FOOD SYSTEMS CONFERENCE

INTEGRATING VETERINARY, FOOD,
ANIMAL, AGRICULTURE, AND
ENGINEERING SCIENCES

Schedule

JULY 20-31, 2020

 **ONLINE**
INTERACTIVE & GROUNDBREAKING
CONFERENCE

INTEGRATING VETERINARY, FOOD, ANIMAL, AGRICULTURE, AND ENGINEERING SCIENCES

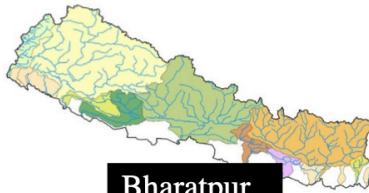


One Health for Food System Conference :

Integrating Veterinary, Food, Animal, Agriculture, and Engineering Sciences



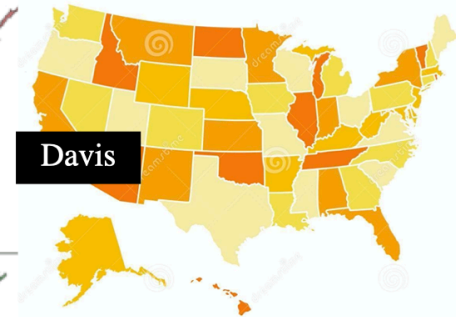
Cambridge



Bharatpur



Yamaguchi-ken



Davis



Week 1

Davis Time	Sunday		Monday		Tuesday		Wednesday		Thursday
	7/19/2020		7/20/2020		7/21/2020		7/22/2020		7/23/2020
5:00-7:00 pm	One Health for Food Safety & Animal Health	5:00-6:00pm	Linking Ecosystem Health to Human and Animal Health: Challenges and Opportunities	5:00-6:30pm	Virtual Dairy Visit I Milking Parlor	5:00-6:00pm	Satisfying the Rising Demand for Animal Protein While Protecting the Environment	5:00-6:00pm	One Health Approach to Solving Complex Problems: Spinach Outbreak
	Dr. Bennie Osburn Director, Outreach and Training, Western Institute for Food Safety and Security Dean Emeritus, School of Veterinary Medicine, University of California, Davis		Dr. Jorge Rodrigues Professor, Department of Land, Air and Water Resources, University of California, Davis		Dr. Mike Payne Researcher and Outreach Coordinator, Western Institute for Food Safety and Security		Dr. Frank Mitloehner Professor and Air Quality Extension Specialist, Department of Animal Science, University of California, Davis		Dr. Michele Jay-Russell Interim Director, Western Institute for Food Safety and Security, and Program Manager for the Western Center for Food Safety, University of California, Davis DVM, University of California, Davis
7:15-8:00 pm		6:00-7:00pm	Microbes and Plant Health	6:30-8:00pm		6:00-7:00pm	Small Animal Emergency Medicine	6:00-7:00pm	Involvement of Microbiome Analysis in Food Safety Research
	The Power of One		Dr. Maeli Melotto Associate Professor and Vice-Chair of Agricultural Plant Biology, Department of Plant Sciences, University of California, Davis		Virtual Dairy Visit II Environmental Impact: Dairy Digester		Dr. Kate Hopper Professor, Surgical & Radiological Sciences, School of Veterinary Medicine, University of California, Davis		Dr. Luxin Wang Associate Professor, Food Science and Technology, University of California, Davis. Ph.D, University of Missouri
		7:00-8:00pm	Poster Review			7:00-8:00pm	Group Presentation	7:00-8:00pm	School life in UC Davis (Graduate Student)
	Ms. Chris Brunner Communications and International Programs Director, Western Institute for Food Safety and Security		Ms. Heather Johnson, Instructional Systems Designer, Western Institute for Food Safety and Security		Dr. Pramod Pandey Associate Agronomist and Associate Specialist in Cooperative Extension, Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis		Describe the One Health issue that your group picked. Why do you choose this topic? Is there a news reported over your topic?		Dr. June Palmado Barrera, DVM , School of Veterinary Medicine, University of California, Davis
10:00-11:00pm	Team Discussion Get the group organized	10:00-12:00pm	Presentations by Graduate Students	10:00-11:00pm	Team Discussion Raise Awareness	10:00-12:00pm	Presentations by Graduate Students	10:00-11:00pm	School life in UC Davis (Undergraduate Student)
11:00-12:00pm				11:00-12:00pm	Cocktail Party			11:00-12:00pm	Richard Ma, School of Biological Sciences at UC Davis, Majoring in Cell Biology

Week 2

Davis Time	Sunday	Monday	Tuesday	Wednesday	Thursday	
	7/26/2020	7/27/2020	7/28/2020	7/29/2020	7/30/2020	
5:00-6:00pm	<div>Overview of Nutrition Service, Veterinary Medical Teaching Hospital</div>	<div>Integrative Medicine Service at the UC Davis</div>	<div>Building Capacity to Prevent Pandemics Using a One Health Approach</div>	<div>How to Communicate Scientific Subjects to the Public</div>	<div>Final Team Presentation</div> <div>5:30-5:50 Esprit de corps</div> <div>5:50-6:10 Six buddies</div> <div>6:10-6:30 Striving Dreamers</div>	
6:00-7:00pm	<div>Dr. Andrea Fascetti, Professor, Department of Molecular Biosciences, School of Veterinary Medicine, University, of California, Davis</div>	<div>Dr. Jamie Peyton, Chief of Integrative Medicine Service, UC Davis, Veterinary Medical Teaching Hospital</div>	<div>Dr. Tracey Goldstein, Associate Director, One Health Institute, University of California, Davis</div>	<div>Gregory Wlasiuk, E-Learning Curriculum Designer, Western Institute for Food Safety and Security</div>		5:00-7:30pm
	<div>Graduate Education at UC Davis and in USA</div>	<div>Feed-based Technologies to Improve Weaned Pig Health and Production</div>	<div>Community Practice, School of Veterinary Medicine</div>	<div>Ms. Heather Johnson, Instructional Systems Designer, Western Institute for Food Safety and Security</div>		
7:00-8:00pm	<div>Dr. Xinbin Chen, Professor, Department of Surgical & Radiological Sciences, School of Veterinary Medicine, University of California, Davis</div>	<div>Dr. Yanhong Liu, Assistant Professor of Animal Nutrition, Department of Animal Science, University of California, Davis</div>	<div>Dr. Ilana Halperin, Health Sciences Assistant Professor of Clinical Medicine & Epidemiology, University of California, Davis</div>	<div>Final Team Presentation</div>		7:30-8:00pm
	<div>Panel Discussion - Veterinary Medicine</div>	<div>Swine Behavior & Welfare</div>	<div>Panel Discussion - Food Science & Veterinary Medicine</div>	<div>06:30-06:50 JIANGSHAN</div> <div>06:50-07:10 The Waves</div> <div>07:20-07:40 Eureka</div> <div>07:40-08:00 Rainbow Bridge</div>	<div>Dr. Bennie Osburn Director, Outreach and Training, Western Institute for Food Safety and Security Dean Emeritus, School of Veterinary Medicine, University of California, Davis</div>	
	<div>Taotao Lu, BVSc , School of Veterinary Medicine, University of California, Davis</div> <div>Yitong Huang, BVSc , School of Veterinary Medicine, University of California, Davis</div>	<div>Dr. Kristina Horback, Assistant Professor, Department of Animal Science, University of California, Davis</div>	<div>Dr. Jinxin Liu, School of Food Science, University of California, Davis</div> <div>Dr. Wenqiang Sun, School of Veterinary Medicine, University of California, Davis</div>	8:00-8:30pm	<div>CONFERENCE CONCLUDED</div>	
10:00-11:00pm	<div>Panel Discussion</div> <div>Cambridge University / Agricultural University / Yamaguchi University / Zhejiang A&F University / Agriculture and Forestry University (Nepal)</div>	<div>Presentations by Graduate Students</div>	10:00-12:00pm	<div>Mock Presentation</div>		
11:00-12:00pm	<div>Team Discussion</div> <div>Get prepared for the final presentation</div>					

Presentations by Graduate Students

07/20/2020



Talk
Presentation by Graduate Students
July 21, 2020, 01:00 PM - 01:30 PM CST(+08:00)
Changxuan Shao
【1:00-1:15】

Speaker:
Changxuan Shao, a 3rd grade PhD student from Northeast Agricultural University.

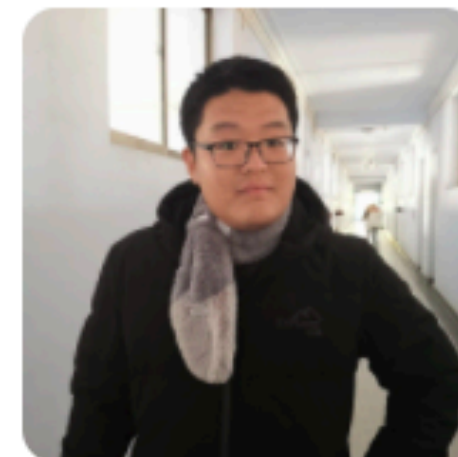
Introduction of his research:
A progressive design scheme and screening system was established for β -hairpin antimicrobial peptides to provide a simplified, inexpensive, efficient, and safe prototype of β -sheet antibiotic substitutes. Target amphiphiles WKF-PG and WRF-NG can tackle bacterial infection through direct antimicrobial efficacy and potential inflammation-limiting capabilities without observed toxicity after systemic administration.



Talk
Presentation by Graduate Students
July 21, 2020, 01:30 PM - 02:00 PM CST(+08:00)
Min Liu
【1:30-1:45】

Speaker:
Min Liu, a postdoctoral student from Shandong Agricultural University.

Introduction of her research:
The purpose of this work is to assess the potential effects of mycelia polysaccharide from Schizophyllum commune Fr. on the glucolipid metabolism via modulation of gut microbiota in obesity mice, and to elucidate their possible regulatory mechanisms. This is supported by China Postdoctoral Science Foundation and Shandong Postdoctoral Innovation Project.



Talk
Presentation by Graduate Students
July 21, 2020, 02:30 PM - 03:00 PM CST(+08:00)
Xusheng Dong
【2:45-3:00】

Speaker:
Xusheng Dong, a First year PHD student.

Introduction of his research:
The main focus of our lab is amino acid metabolism in dairy cows. We wanted to increase the nitrogen utilization of heifers and dairy cows by rumen-protected amino acids supplementation. My PhD project focused on dairy mammary gland development and mammary stem cells in dairy cows. I am currently working on mammary stem cell research using mice as a model.

Presentations by Graduate Students

07/22/2020



Talk
Presentation by graduate student
July 23, 2020, 01:00 PM - 01:30 PM CST(+08:00)
Xuedi Huang
【1:00~1:15】

Speaker:
Xuedi Huang, a 3rd year Ph.D. from Zhejiang University.

Introduction of her research:
IBD(inflammatory bowel disease) is a kind of chronic disease that can be treated with probiotic. I've isolated tens of bacteria from food samples. Lactic acid bacteria strain XY-1&XY-2 stand out for their safety and positive effect on reducing inflammatory level of zebrafish IBD model.



Talk
Presentation by graduate student
July 23, 2020, 01:30 PM - 02:00 PM CST(+08:00)
Qiao He
【1:30~1:45】

Speaker:
Qiao He, a 1st year Ph.D. from Zhejiang University.

Introduction of her research:
The research provides a more complete understanding of the synergistic effect of thyme essential oil nanoemulsion, which was formulated by probe sonication and ultrasound and its feasibility for minimal processing industry to improve fresh produce safety.



Talk
Presentation by graduate student
July 23, 2020, 02:00 PM - 02:30 PM CST(+08:00)
Tian Guan
【2:00~2:30】

Speaker:
Tian Guan, a 1st year Ph.D. from South China Agricultural University.

Introduction of her research:
Study on Android smartphone-based immunosensors for the on-site detection of Microcystin-LR in water by integrating the detection platform smartphone with portable electrochemical immunosensor or miniaturized microfluidic chip-based immunosensors.

07/27/2020



Talk

Presentation by graduate student

July 28, 2020, 01:00 PM - 01:30 PM CST(+08:00)

Haocheng Guo

【1:00~1:15】

Speaker:

Haocheng Guo, a 1st year postgraduate from Zhejiang University.

Introduction of his research:

My current research direction is to use microfluidic process by utilizing its laminar flow characteristics to prepare a functional drug delivery system. Using food-grade materials to prepare a targeted release delivery system with better dispersion for intestinal environment.



Talk

Presentation by graduate student

July 28, 2020, 01:00 PM - 01:30 PM CST(+08:00)

Xiuxiu Miao

【1:15~1:30】

Speaker:

Xiuxiu Miao, a 3rd year postgraduate from Shandong Agriculture University.

Introduction of her research:

Salmonella Enteritidis can colonize in the intestines after infecting chickens, and transferred into people through eggs, eventually causing intestinal inflammation. My research is analysis of mRNA and miRNA sequencing in the cecum of Shouguang chickens infected with Salmonella Enteritidis. Explore the molecular regulation mechanism of mRNA and miRNA after SE infection.



Talk

Presentation by graduate student

July 28, 2020, 01:30 PM - 02:30 PM CST(+08:00)

Tianyi Yan

【1:30~1:45】

Speaker:

Tianyi Yan, a first-year Ph.D. from Zhejiang University.

Introduction of his research:

In this study, effects of applying a high-intensity ultrasonic field to the electrostatic interactions between soy protein isolate and citrus pectin were explored, with an emphasis on the enhancement of emulsifying properties. To better understand the mechanism for the improved properties, changes on physicochemical and microstructural properties were further investigated.



Talk

Presentation by graduate student

July 28, 2020, 01:30 PM - 02:00 PM CST(+08:00)

VICTORIA ANTHONY

【1:45~2:00】

Speaker:

Victoria Anthony, a 2nd year Ph.D. from Shandong Agriculture University.

Introduction of her research:

With growing concerns on global warming, heat stress is a paramount threat to humans and livestock in most tropical regions. Nitric oxide is a biological signalling molecule involved in thermoregulation, and Citrulline is essential for its synthesis. This research is investigating the potentials of citrulline in mediating stress responses and nitric oxide production using chickens



Talk

Presentation by graduate student

July 28, 2020, 02:00 PM - 02:30 PM CST(+08:00)

Mario Huang

【2:00~2:15】

Kaiyin Huang, a graduated student from Nanjing Agricultural University.

Introduction of his research:

In Kaiyin Huang's undergraduate program, he mainly focused on a natural ascorbic acid derivative, 2-O-β-D-Glucopyranosyl-L-ascorbic acid (AA-2βG), from Lycium barbarum L.. The purification method of AA-2βG was improved. Through the bioactivities research experiments, it was found that AA-2βG has gut microbiota modulatory and anti-inflammatory effect. Moreover, it is found that AA-2βG reversed mouse immunosuppression caused by Cy, and significantly alternated the structure of microbiota in mice colon and small intestine.



Panel

Panel Discussion



July 27, 2020, 01:00 PM - 02:30 PM CST(+08:00)

TAKAHASHI Yoshimi, Sammie Lam, Krishna Adhikari, Xiaotong Jiang, Chiyu Guan, Anna Liu

1. A brief introduction of the Veterinary program of my School.
2. Why do I learn Veterinary Medicine?
3. The connection of One Health and the Veterinary program of my School.

A large, semi-transparent image of the UC Davis water tower is positioned on the left side of the slide. The tower is a lattice structure with a large spherical tank at the top. The word "UCDAVIS" is printed in large, bold, blue letters across the front of the spherical tank. The background of the entire slide is a solid blue color. On the right side, there is a decorative orange arc that curves from the top towards the middle.

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