



The 1st China-U.S. International Swine Veterinarian Academic Conference

第1届中美国际猪兽医学学术研讨会

Conference Brochure

April 27th-29th 2022

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第1届中美国际猪兽医学学术研讨会

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Conference Introduction

Dear Invitee

Swine production is a trillion-dollar-worth of industry in China. It is not uncommon for the infectious disease outbreaks to occur in China and countries adjacent China. Wreaked by epidemics such as COVID-19 and ASFV, the industry is facing ongoing risks of disease outbreaks not only from domestic spreading but also transboundary transmission.

We are exhilarated to announce the 1st China-U.S. International Swine Veterinarian Conference on to be held in the city of Hangzhou, Zhejiang Province, scheduled from April 27 to April 30, 2022. The mission of the conference is to advance the rural revitalization, agricultural modernization and farming transformation, to develop sustainable mechanism for animal epidemic disease control and prevention, to ensure food safety and security and animal welfare, to encourage green and ecologically friendly husbandry practice, to promote international collaboration and communication and to build a community with a shared future for mankind featuring “One World, One Health”. The conference will be in person with a live stream available.

The conference will include cutting edge ideas and most advanced topics from prestigious academicians, professionals and young scholars.



Topic of the Conference
Swine Veterinarian & One Health
——Swine Health Management under ASFV

Participants:200+

Agenda

April 27, 2022 Wednesday (Beijing Time): Register and Check in

April 28, 2022 Thursday (Beijing Time): Opening ceremony, plenary talks, keynote talks and academic communication

April 29, 2022 Friday (Beijing Time): Plenary talks, keynote talks and academic communication and closing ceremony

April 30, 2022 Saturday (Beijing Time): Departure from the meeting

Location: Hangzhou Lin'an Wonderland Hotel

No.88, Shengyuan Road, Lin'an, Hangzhou, Zhejiang Province China



Conference Organizer

Directing Host:

CVMA (China Veterinary Medicine Association)

Host:

Animal Welfare Subassociation of CVMA
Zhejiang Agriculture & Forestry University

Co-Host:

Western Institute for Food Safety and Security, University of California Davis
U.S.-China Animal Health Center, Kansas State University

Organizer:

Zhejiang International Science and Technology Cooperation Base for Veterinary Medicine and Health Management
College of Animal Science and Technology & College of Veterinary Medicine of Zhejiang A&F University
Key Laboratory of Applied Technology on Green-Eco-Healthy Animal Husbandry of Zhejiang Province
Zhejiang Provincial Engineering Research Center for Animal Health Diagnostics & Advanced Technology
China-Australia Joint Laboratory for Animal Health Big Data Analytics

Sponsors



Organizing Committee and Academic Committee

Chair

Huanchun Chen Academician of China Engineering Academy
President of CVMA
Professor of Huazhong Agricultural University

Consultant

Shengpeng Xin Vice President and Secretary General of CVMA
Deputy Director & Professor, China CADC
Jiasheng Wu Vice President of Zhejiang A&F University

Executive Chair

Houhui Song Dean of College of Veterinary Medicine, ZAFU
President of Animal Welfare Branch of CVMA
Bennie I. Osburn Dean Emeritus, School of Veterinary Medicine, UC Davis
Jishu Shi Director, U.S.-China Animal Health Center, Kansas State University

Organizing Committee (Alphabetically)

Cheng, Changyong Associate Dean of College of Veterinary Medicine, ZAFU
Chen, Zhongwei Director, Veterinary Diagnostic Center, ZAFU
Dong, Xiaohui Manager of Wuhan Keqian Biological Co., Ltd.
Li, Long Professor of College of Veterinary Medicine, ZAFU
Luo, Michael Head of East Asia International Cooperation, WIFSS UC Davis
Zheng, Yadong Professor of College of Veterinary Medicine, ZAFU

Academic Committee (Alphabetically)

Benjamin, Madonna Professor, School of Veterinary Medicine Michigan State University
Chen, Huanchun Academician of Chinese Academy of Engineering
Chen, Zhaosan CVO of Tianbang Food Co., Ltd.
Fang, Weihuan Professor of Zhejiang University
Gay, Cyril Director, President of International African Swine Fever Research Society, USDA
Han, Jun Associate Dean, College of Veterinary Medicine, China Agricultural University
Horbach, Kristina Associate Professor, Department of Animal Science, UC Davis
He, Qigai Professor of Huazhong Agricultural University
Hua, Jiqi CEO of Zhejiang Jiahua Breeding Pig Co., Ltd.
Li, Long Professor of Zhejiang A&F University
Li, Xiaowen CVO of New Hope Liuhe Co., Ltd.
Niu, Min CVO of Muyuan Food Co., Ltd.
Osburn, Bennie Dean Emeritus, School of Veterinary Medicine, UC Davis
Perez, Andres Director, Center for Animal Health and Food Safety, Minnesota College of Veterinary Medicine
Shi, Jishu Director, U.S.-China Animal Health Center, Kansas State University, USA
Sundberg, Paul Director, American Swine Health Information Center
Dee, Scott Pipestone Veterinary Service, Director of Applied Research
Song, Houhui Dean of College of Veterinary Medicine, ZAFU
Sun, Dongbo Professor of Heilongjiang Bayi Agricultural University
Wang, Lianxiang President Assistant of Wen's Food Group Co., Ltd.
Wang, Tenghao Executive Vice President of Research Institute Zhejiang Qinglian Food Co., Ltd.
Wang, Weiwei CEO of Shanghai Bergman Agricultural Development Co., Ltd.
Wang, Xiaodu Professor of Zhejiang A&F University
Wang, Xingchen CTO of Guangdong Haid Group Co., Ltd.
Wang, Yajing CEO of Safety and Environmental Protection Department New Hope Liuhe Co., Ltd.
Weng, Changjiang Professor of Harbin Veterinary Research Institute, CAAS
Wu, Jiajun Senior Veterinarian, China Center for Animal Disease Control and Prevention
Wu, Jiasheng Vice President of Zhejiang A&F University
Xin, Shengpeng Vice President and Secretary General of CVMA
Xu, Gaoyuan CEO of Wuhan Keqian Biological Co., Ltd.
Liu, Yanhong Associate Professor, Department of Animal Science, UC Davis
Yan, Zhichun Chief Scientist of New Hope Liuhe Co., Ltd.
Zhang, Guihong Professor of South China Agricultural University
Zhou, Bin Professor of Nanjing Agricultural University
Zu, Haitao CVO of Jiangsu Lihua Animal Husbandry Co., Ltd.

“ Plenary Lecture



Huanchun Chen

Academician of Chinese Academy of Engineering

The dynamic prevalence and control strategies of swine diseases in China

President of the China Veterinary Medical Association

Deputy Chief Engineer of Transgenic Special Technology of the Ministry of Agriculture and Rural Affairs

Professor of Huazhong Agriculture University



Scott Dee

Pipestone Veterinary Service, Director of Applied Research

Veterinary Diagnostics for Swine Diseases

Dr. Scott Dee joined Pipestone Veterinary Services in Pipestone in July of 2011. Before joining the clinic, Dr. Dee was a swine practitioner in Morris, Minnesota for 12 years and for the last 12 years a professor at the University of Minnesota where he conducted research in the areas of PRRSV transmission and biosecurity. Currently he serves as Director of Research for Pipestone Applied Research conducting research in the areas of viral transport and transmission.



Andres Perez

Director of Animal Health and Food Safety at the University of Minnesota, College of Veterinary Medicine.

Epidemiology of Swine Diseases

Dr. Perez has held the Endowed Chair in Global Animal Health And Food Safety since 2015 and has served as director of CAHFS since 2017. Prior to his position at the UMN, Dr. Perez spent 10+ years at the University of California, Davis, where he served as director of the UC Davis Center for Animal Disease Modeling and Surveillance. He is also currently an advisor on epidemiology for the Argentine Animal Health Service and for the Foreign Animal Disease Research Unit of the USDA Agricultural Research Service at the Plum Island Animal Disease Center.



Yanhong Liu

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

Nutritional alternatives to antibiotics in swine

Research Interests on antimicrobial resistance of food-borne bacteria, alternatives to antibiotics in agricultural animal industry to evaluate dietary effects on pig health by investigating impacts of products now available to the industry, helping the animal industry deploy feed-based health technologies to improve animal health. A secondary research focus is to evaluate low-cost by-products or co-products from feed or food industry as feed ingredients for pigs.



Madonna Benjamin

DVM, MS, Assistant Professor, MSU Extension Large Animal Clinical Sciences Michigan State University

Application of animal welfare practice and digital technologies on swine farms

Research interests on precision livestock farming to meld economic decisions, mitigation strategies, labor efficiencies and individual animal welfare through visual imaging to evaluate body condition and weight in cull sows, establishing rural connectivity to improve farm economics and animal welfare and development of on-farm robust data collection devices. Alternatives to captive bolt application sites in mature swine.



Jishu Shi

Director, U.S.-China Animal Health Center Professor, Kansas State University

The past, presence and future of prevention and control of CSFV and ASFV

He focus his research on classical swine fever (CSF), African swine fever (ASF), porcine reproductive and respiratory syndrome (PRRS), porcine pseudorabies (PPV), Blue tongue (BT) disease, Epizootic hemorrhagic disease (EHD), and other emerging viral diseases of swine and cattle.



Cyril Gay

DVM, PhD, Senior National Program Leader Animal Production and Protection Agricultural Research Service, USDA

Research updates from the Global African Swine Fever Research Alliance (GARA) and priorities for 2022

Dr. Gay currently holds the position of Senior National Program Leader and provides program direction and national coordination for the Department's intramural animal health research program, with focus on eight research laboratories located in Ames, Iowa, East Lansing, Michigan, Clay Center, Nebraska, Athens, Georgia, Orient Point, New York, Beltsville, Maryland, Pullman, Washington, and Manhattan, Kansas. He received a U.S Presidential Rank Award in 2017.



Kristina Horbach

Associate Prof, Department of Animal Science, University of California, Davis

Swine Animal Welfare

Dr. Horback is an associate professor in the Department of Animal Science and is a faculty member of the Center for Animal Welfare at UC Davis. She is trained in animal cognition and comparative psychology and uses these skills to assess the psychological welfare (e.g., affective state, behavioral needs) of domestic farm animals and wild animals housed at zoos and aquariums. Specific research topics include how personality traits are related to individual differences in coping ability and cognitive processing.



Paul Sundberg

Director/Professor, American Swine Health Research Center

SHIC Organizational System and Emerging Swine Diseases (Monitoring) Program

Dr. Paul Sundberg is the National Pork Board's Vice President of Science and Technology. His responsibilities include technical oversight and management of the Department of Science and Technology. That department is responsible for issues management, program development and scientific research in the areas of food safety, swine health, animal welfare, the environment, animal production and producer and public health for the U.S. pork industry.



Zhichun Yan

New Hope Liuhe Co., Ltd. Chief Scientist

Swine Farm Disease Economics

He studied at the University of Minnesota in the United States and worked in foreign institutions for more than 20 years. He has decades of experience in pig industries. He is a special consultant for many large-scale pig farms in China.



Guihong Zhang

Professor of South China Agricultural University

African swine fever prevention and control update and its economic analysis

Director of the Department of Preventive Veterinary Medicine, College of Veterinary Medicine, South China Agricultural University, Expert of the National Pig Modern Industrial Technology System. Her research interests are livestock disease diagnostic technology. In recent years, she has published more than 200 papers as the first author or corresponding author in peer reviewed journals.



Weng Changjiang

Professor of Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences

Immune escape from African swine fever and its guiding role in vaccine development

Dr. Weng is a chief scientist of the Basic Immunity Innovation Team of the Chinese Academy of Agricultural Sciences with research interests of infection, immune escape and pathogenic mechanisms of African swine fever virus (ASFV) and porcine reproductive and respiratory syndrome virus (PRRSV). He has published more than 130 papers in Cell Rep, PLoS Pathog, J Biol Chem, J Immunol and other peer reviewed journals.



Lianxiang Wang

President Assistant of Wen's Food Group Co., Ltd.

Influence of blue-ear positive grandparent pig herd on commercial generation

From 2009 to now, he has been engaged in professional pig production technology and management in Wen's Co., Ltd., and has been working in the front line of production with rich experiences in the fields of African swine fever, foot-and-mouth disease, PRRS, Classical swine fever, and porcine circovirus disease. He has published more than 30 academic papers in peer reviewed journals.



Bin Zhou

Professor of Nanjing Agricultural University

The latest epidemic characteristics and case sharing of PRRS

Dr. Zhou is a Professor of the Department of Preventive Veterinary Medicine, College of Veterinary Medicine, Nanjing Agricultural University. He serves as director of the Editorial Board of *Animal Husbandry and Veterinary Medicine*. His research interest is the diagnosis and prevention of animal infectious diseases. He has published more than 100 papers in peer reviewed journals.



Enqiu Dong

EMBA/CEO of Longda Group's Breeding Division

Swine Health Cost Control: Comparison of Prevention and Treatment

Dr. Dong is a senior manager of Shandong Longda Meat Food Co., Ltd. He has mainly engaged in the health management of pig farms.



Xingchen Wang

CTO of Guangdong Haid Group Co., Ltd.

Establishment and operation of modern veterinary system of pig raising group

He has been engaged in the health management of pig herds in large breeding groups for a long time. He is committed to the construction and operation of the biosecurity system. He has rich experiences in major disease prevention and control.



Rongyu Zeng

CTO of Tiankang Animal Husbandry Health Management

TBD

He has published many high-quality papers in journals such as Nature Biotechnology, PNAS, The Journal of Immunology, etc. He has profound theoretical foundation and rich practical experience in the fields of animal nutrition, feed production, animal vaccine research and development and promotion, and pig production.



Xiaowen Li

CVO of New Hope Liuhe Co., Ltd.

Biosecurity—Simple is the best

He first advanced the theory of pig farm RSY (Return-on-investment per sow per year, RSY) evaluation standard and applied it in production practice. This theory can be used to evaluate pig breeds, nutrition, disease control, management, etc. He is the proposer, researcher and practitioner of the systematic production and management plan of pig farms guided by the RSY theoretical system. In 2018, he won the "Professor Mo's Scientific Practice Award" jointly sponsored by the University of Minnesota and Shixin Lamp International Exhibition (Beijing) Co., Ltd., and proposed a new solution to the PED problem in pig production.



Zhaosan Chen

CTO of Testing Center of Tianbang Food Co., Ltd.

Construction and Management of Health System in Pig Industries

He graduated from China Agricultural University with a doctorate in preventive veterinary medicine and DVM. He is currently the CTO of the health diagnostic center of Tianbang Food Co., Ltd., and has long been worked in the field management of pig farms.



Baoxiao Kuang

CTO of Shandong Huachen Pharmaceutical Co., Ltd.

TBD

He has successively worked in Zhangjiagang Breeding Pig Improvement Co., Ltd., Guangdong Weilan Biotechnology Co., Ltd., Shanghai Novartis Animal Health Co., Ltd., Shenzhen Jinxinnong Feed Co., Ltd., Zhejiang Huifeng Animal Husbandry Group, Qingdao Yibang Biological Engineering Co., Ltd., Shandong Huachen Pharmaceutical Co., Ltd. The company serves as technical service manager and technical director. He is familiar with the characteristics of traditional Chinese medicines and regimens to make full use of combinations to solve production problems for pigs.

Conference Agenda

Opening Ceremony
8:30am-9:00am
April 28th 2022

Vice President and Secretary General of CVMA **Shengpeng Xin**

Vice President of Zhejiang A&F University **Jiasheng Wu**

Dean Emeritus of the School of Veterinary Medicine, UC Davis **Bennie I. Osburn**

President of Zhejiang Pig Industry Association **Jianqing Hua**

April 28th 2022

| Date | Topic | Time | Title | Speaker/Participant | Host |
|-------------------------------------|---------------|-------------|--|---|-----------------------------|
| April 28 th Session 1 | / | 8:30-9:00 | Opening ceremony | All the guests | Houhui Song |
| | | 9:00-9:30 | Group photo | | |
| April 28 th Session 2 | Epidemiology | 9:30-10:15 | The dynamic prevalence and control strategies of swine diseases in China | Huanchun Chen Academician | Zhichun Yan Yadong Zheng |
| | | 10:15-10:45 | Veterinary Diagnostics for Swine Diseases | Scott Dee DVM | |
| | | 10:45-11:15 | Epidemiology of Swine Diseases | Andres Perez DVM, PhD | |
| | | 11:15-11:45 | SHIC Organizational System and Emerging Swine Diseases (Monitoring) Program | Paul Sundberg DVM, PhD | |
| | | 11:45-12:15 | Q&A | | |
| 12:15-14:00 Siesta | | | | | |
| April 28 th Session 3 | Cost & Health | 14:00-14:30 | Swine Farm Disease Economics | ZhichunYan Chief Scientist | Dongbo Sun |
| | | 14:30-15:00 | Swine Health Cost Control: Comparison of Prevention and Treatment | Enqiu Dong EMBA/CEO | |
| | | 15:00-15:30 | TBD | | |
| 15:30-15:45 Coffee break | | | | | |
| April 28 th Session 4 | PRRSV | 15:45-16:15 | Influence of blue-ear positive grandparent pig herd on commercial generation | Lianxiang Wang President Assistant | Jun Han |
| | | 16:15-16:45 | The latest epidemic characteristics and case sharing of PRRS | Bin Zhou Professor | |
| | | 16:45-17:15 | TBD | | |
| Round table forum | | 17:15-18:00 | Challenges and opportunities for swine veterinarians in the post-ASF era | | Dan Li |
| Welcome banquet | | 19:00-21:00 | Launching Ceremony of the Advanced Swine Veterinary Research Institute & the Night of Elanco | | Xiaoling Su |

April 29th 2022

| Date | Topic | Time | Title | Speaker/Participant | Host |
|-------------------------------------|-------------------------|-------------|---|------------------------------------|--------------|
| April 29 th Session 1 | ASFV | 8:30-9:00 | Research updates from the Global African Swine Fever Research Alliance (GARA) and priorities for 2022 | Cyril Gay DVM, Ph.D | Qigai He |
| | | 09:00-9:30 | The past, presence and future of prevention and control of CSFV and ASFV | Jishu Shi Ph.D | |
| | | 9:30-10:00 | African swine fever prevention and control update and its economic analysis | Guihong Zhang Professor | |
| 10:00-10:15 Coffee break | | | | | |
| April 29 th Session 2 | Pig Welfare | 10:15-10:45 | Application of animal welfare practice and digital technologies on swine farms | Madonna Benjamin DVM | Weihuan Fang |
| | | 10:45-11:15 | Swine Animal Welfare | Kristina Horbach Associate Prof | |
| | | 11:15-11:45 | Nutritional alternatives to antibiotics in swine | Yanhong Liu Ph.D | |
| | | 11:45-12:15 | TBD | | |
| | | 12:15-12:35 | Q&A | | |
| 12:35-14:00 Siesta | | | | | |
| April 29 th Session 3 | PEDV | 14:00-14:30 | The veterinary systems in large-scale pig farms: implication and operation | Xingchen Wang CTO | Jiajun Wu |
| | | 14:30-15:00 | The immune escaping and vaccine development guidelines to African swine fever virus | Weng Changjiang Professor | |
| | | 15:00-15:30 | TBD | | |
| 15:30-15:45 Coffee break | | | | | |
| April 29 th Session 4 | Diagnosis & Biosecurity | 15:45-16:15 | Biosecurity ——Simple is the best | Xiaowen Li CVO | Xiaodu Wang |
| | | 16:15-16:45 | The veterinary diagnostic system management in pig farms | Zhaosan Chen CTO | |
| | | 16:45-17:15 | The application of laboratory diagnosis techniques in swine diseases prevention and control | Wenbo Song Ph.D | |
| | | 17:15-17:45 | TBD | | |
| Q&A | | 17:45-18:30 | Speakers & Audience | | Long Li |
| Appreciation Dinner & Awarding | | 19:00-21:00 | Outstanding Poster Award Young Veterinary Forum Winner | | Houhui Song |

