

Conference Announcement (Round II)

2021 International Symposium for Classical Swine Fever

Beijing 01-03 December 2021

Dear Friends and Colleagues,

Classical swine fever is a highly contagious disease which can cause devastating effect to the swine industry all over the world. In order to strengthen the progress of global CSF elimination and eradication, advance the communication and cooperation in global CSF prevention and control technology, China Institute of Veterinary Drug Control will host 2021 International Symposium for Classical Swine Fever (ISCSF2021) on 01-03 December, 2021 in Beijing, China. Prominent academicians, experts and scholars well known in this field from National/OIE reference laboratory for CSF, research institutes for CSF and ASF around the world are invited by the conference as keynote speakers who will give presentations on hotspot, challenges and recent progress in CSF field, including epidemiology status of CSF in China and abroad, novel diagnosis technology and vaccine development, mechanism of CSF immunity and pathogenesis, and clinical practical advice on CSF prevention and control. In addition, the outbreak of a highly contagious disease, African swine fever (ASF) poses a huge threat to China's pig industry, even in other countries. Coordinative prevention and control of these two important swine diseases will have positive contribution to pig industry. Therefore, sections related to ASF prevention and control technologies and strategies will also be concluded in this symposium. More

detailed information regarding ISCSF2021 can be found in the following sections.

1. Main topics of ISCSF2021

- 1.1 Global situation of CSF.
- 1.2 Fundamental research on the CSFV
- 1.3 CSF diagnosis and vaccine: State-of-the-art
- 1.4 Progress and challenge of the global CSF eradication
- 1.5 Key technology Progress on prevention and control of ASF
- 1.6 The challenge to ASF control
- 1.7 Practical strategies in animal diseases diagnosis

2. Conference Organization

Organizer: China Institute of Veterinary Drug Control

3. Conference Time and Form

02 December 2021: Opening Ceremony & Presentation via Webcast;

03 December 2021: Presentation & Closing Ceremony via Webcast;

Live webcast registration link:

<http://live.hoohui.cn/watch/2672632?lang=en>

4. Location

Main Venue: Level 4 Conference Room, Comprehensive Building, China Institute of Veterinary Drug Control, Beijing, China

Address: No.8 South Zhongguancun Street, Haidian District, 100080

5. Participation forms

Due to the requirement of COVID-19 epidemic prevention and control, this symposium will be host via live webcast for free after registration. National speakers and conference attendants with permission can attend on

site. International speakers and other attendants can attend via our live webcast.

Registration (On site): 1st December 2021

Leave: 3rd December 2021

6. Invited speakers and conference agenda

We have invited 38 well-known experts in CSF and ASF fields. Please find out conference agenda in Appendix 1. Information of invited speakers is attached in Appendix 2.

7. Contact Information

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Appendix 1. 2021ISCSF Conference Agenda

Appendix 2. 2021ISCSF Invited Speakers

China Institute of Veterinary Drug Control

20 November 2021

Appendix 1

Agenda

2021 International Symposium for Classical Swine Fever

December 02 Thursday

 8:30~9:00 ● Opening Ceremony
Oral Presentation

Time	Speaker and Topic
9:00~9:30	Prof. Tu Changchun , Changchun Veterinary Research Institute Topic: Viromic Profiling Reveals Co-infected Virus Spectrum of Clinical CSF Cases
9:30~10:00	Prof. Yang Hanchun , China Agricultural University Topic: Current Situation and Control Strategy of African Swine Fever in China
10:00~10:30	Prof./Dr. Paul Becher , University of Veterinary Medicine Hannover Topic: Expanding diversity and host range of pestiviruses: Implications for CSF Diagnosis and Control
10:30~11:00	Prof. Bu Zhigao , Harbin Veterinary Research Institute Topic: Pathogenic Characterization of African Swine Fever Virus Isolations
11:00~11:30	Prof. Wang Qin , China Institute of Veterinary Drug Control Topic: Eradication Strategies of CSF
11:30~12:00	Prof./Dr. Manuel Victor Borca , USDA Plum Island Animal Disease Center Topic: Further Developments Toward Commercialization of ASFV Vaccine Candidate ASFV-G-DI177L
12:00~14:00	Lunch break
14:00~14:25	Prof Falko Steinbach , University of Surrey Topic: Is C Strain Just A Slow Growing CSFV?
14:25~14:50	Prof. Luo Tingrong , Guangxi University Topic: Exploration of Interaction Between CSFV and Host Proteins ISG15/ANXA2/PCBP2
14:50~15:15	Dr. Lilianne Ganges , Centre de Recerca en Sanitat Animal (CRESA) Topic: Classical swine fever: Great Challenges for Disease Control
15:15~15:40	Prof. Qiu Huaji , Harbin Veterinary Research Institute, China Topic: Elimination of Classical Swine Fever Based on Marker Vaccines
15:40~16:05	Prof. Zheng Haixue , Lan Zhou Veterinary Research Institute Topic: Research Progress on Innate Immunity Suppression of ASFV
16:05~16:30	Prof. Wu Xiaodong , China Animal Health and Epidemiology Center Topic: Surveillance of variant strains of African swine fever
16:30~16:55	Dr. Sandra Blome , Friedrich-Loeffler Institute (FLI) Topic: African Swine Fever Pathobiology and Diagnosis in Wild Boar

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16:55~17:20	Dr. Fernando Rodriguez , Centre de Recerca en Sanitat Animal (CRESA) Topic: Fighting ASFV: Vaccines and Something Else
17:20~17:45	Prof. Yoshihiro Sakoda , Hokkaido University Program and Evaluation of Vaccination for Domestic and Wild Boars in Japan
December 03 Friday	
8:30~8:55	Prof. Chen Jinding , South China Agricultural University Classical Swine Fever Virus Infection and the Regulation of Immunometabolism
8:55~9:20	Dr. Helen Crooke , Animal and Plant Health Agency Topic: Genetic tracing of the last outbreak of classical swine fever in the UK
9:20~9:45	Prof. Zhou Bin , Nanjing Agricultural University Topic: The Molecular Mechanism of Endosomal Sorting Complex Required for Transport (ESCRT) Regulation of CSFV Endocytosis and Replication
9:45~10:10	A/Prof. Song Hao , Beijing Institutes of Life Science Topic: The Structure of ASFV and Novel Preventive and Therapeutic Target
10:10~10:35	Dr. Douglas Gladue , USDA Plum Island Animal Disease Center Topic: Development of Second-Generation ASFV Vaccines for Commercial Development
10:35~10:45	Dr. Carola Sauter-Louis & Christoph Staubach , FLI Topic: African Swine Fever in Europe – Is it going to stop spreading westwards?
10:45~11:10	Dr. Yuan Lin , Sino-science Gene Technology Co.,Ltd Topic: Quality Control of Each Process in ASFV qPCR
11:10~11:35	Associate Prof. Xu Lu , China Institute of Veterinary Drug Control Topic: Development and Application of Diagnostic Technology for CSF
11:50~14:00	Lunch break
14:00~14:25	Prof. Zhong Fa-gang , Xinjiang Academy of Agricultural Sciences Topic: Prevention and Control of Bovine Viral Diarrhea Virus
14:25~14:50	Dr. Alexander Postel , University of Veterinary Medicine Hannover Topic: The Role of the Host Cell Protein CD46 as a Molecular Determinant in Pestivirus Entry
14:50~15:15	Dr. Zou Xingqi , China Institute of Veterinary Drug Control Topic: Current Status of ASFV Diagnostic Kits Development
15:15~15:40	Dr. Alan P. Dargantes , Central Mindanao University Topic: Epidemiological Research CSFV & ASFV in Southern Philippines Towards Its Control and Eradication
15:40~16:05	Dr. Zhang Liang , Northwest Agriculture and Forestry University Topic: The Influence of Coat Protein Complex I to CSFV Reproduction
16:05~16:30	Dr. Tatsuya Nishi (on behalf of Dr. Fukai) & Dr. Takehisa Yamamoto National Institute of Animal Health Genome Analyses of CSFV Identified during the 2018-2020 Epidemic in Japan
16:30~16:50	Closing ceremony

Appendix 2

2021 ISCSF Invited Speakers

International speakers

Paul Becher, PhD, Professor, DVM: Full Professor and Head of Institute of Virology in University of Veterinary Medicine, Hannover, Germany. Scientific and Technical Director of the EU & OIE Reference Laboratory for CSF in Hannover, designated OIE expert for CSF. His work has focused on molecular biology of pestiviruses, including viral replication and pathogenesis, diagnosis, disease control and DIVA vaccine. Other research activities focus on the discovery of emerging viral diseases from pig, cattle, and other animal hosts as well as on mechanisms and biological significance of genetic variability of RNA viruses.

Manuel V. Borca, Ph.D, DVM. in microbiology, is the Lead Scientist of the “Countermeasures to Control Foreign Animal Diseases of Swine” program for the US Department of Agriculture, Agricultural Research Service (USDA-ARS) at Plum Island Animal Disease Center, since 2001. He has been extensively working with foreign animal disease as foot-and-mouth disease (FMD), African swine fever (ASF) and classical swine fever (CSF). Dr. Borca research focuses on pathogenesis, host immune response and vaccine development. Dr. Borca has authored over 150 peer-reviewed scientific publications and 20 awarded/filed patents.

Helen Crooke, PhD: Designated reference expert of OIE reference laboratory for CSF in UK, head of swine fever and pestivirus research in Animal and Plant Health Agency. Her research aims in assisting decision making in the prevention and control of disease caused by CSFV, ASFV and the ruminant pestiviruses (BVDV, BDV and other pestiviruses). Her current research focuses on the fundamental studies of the interactions of CSFV with host’s immune system for development of improved vaccines and disease control strategies, improving diagnostic method for timely detection of CSFV and ASFV.

Carola Sauter-Louis, PhD: Deputy Head of the Institute of Epidemiology of FLI, Germany. Her research focuses on studies on infectious diseases, such as ASF or FMD, including risk assessment and control and prevention of such diseases. Responsible for epidemiological studies and advice on animal diseases and control options. Main research focus on African swine fever. Other research activities on Avian Influenza, Foot-and-Mouth

disease, as well as fish diseases.

Lilianne Ganges, PhD: a designated reference expert in the OIE reference laboratory for CSF in Spain, principal investigator in the Pestivirus research line at the Animal Health Research Centre (CReSA) in IRTA, Spain. Dr. Ganges leads studies focused on the immunology, pathogenesis and evolution of CSFV, providing relevant information for CSF control in endemic countries. She has developed serological and molecular diagnostic methods as well as new vaccine prototypes against CSFV.

Sandra Blome, PhD: Deputy Head of the Institute of Diagnostic Virology at Friedrich-Loeffler-Institute (FLI), Germany, lecturer (Privatdozent) at the Free University of Berlin. Dr. Blome has long-term experience in working with transboundary viruses under high containment conditions up to BSL 3+ including animal experiments. Her research focuses on studies on pathogenesis of viral infectious diseases with particular emphasis on virus-host interaction and diagnostics/vaccine development.

Fernando Rodriguez, PhD: Coordinator of the African swine fever research line of the Animal Health Research Centre (CReSA) in IRTA in Spain. Dr. Rodriguez has developed multiple diagnostic methods for ASFV. Recently, his team has been devoted to basic research on ASF to understand the mechanisms involved in protection as well as the antigens involved in such protection for the development of vaccine prototypes against ASF.

Christoph Staubach, PhD: Epidemiology expert and scientist at the Institute of Epidemiology of Friedrich-Loeffler-Institute (FLI), Germany. He is specialized in spatial epidemiology of infectious animal diseases using Geographical Information Systems (GIS) and Remote Sensing. He developed simulation models for CSF, rabies and avian influenza in wildlife. Furthermore, he established models regarding surveillance of CSF in wildlife and domestic pigs.

Falko Steinbach, PhD, Professor: Since 2005 he is Head of the Mammalian Virology Group at the now APHA in Weybridge, UK and since 2014 also Professor of Veterinary Immunology at the School of Vet Medicine at the University of Surrey, UK. From 2000 (until 2012) he was the founding Chair of the European Veterinary Immunology Group (EVIG). He has published over 100 peer-reviewed publications and is a member of Journal Editorial Boards, such as TBED, IJVSM, Frontiers Immunology.

Yoshihiro Sakoda, PhD, Professor: Professor at Faculty of Veterinary Medicine,

Hokkaido University, Japan. Head of OIE Reference Laboratory for Highly Pathogenic Avian Influenza. His research interests is pathogenesis of influenza viruses, interspecies transmission of influenza viruses, and pathogenesis of classical swine fever virus, bovine viral diarrhoea virus, and border disease virus. He also develops vaccine and diagnosis methods for pestivirus and influenza virus infections.

Alexander Postel, PhD: Head of the section for molecular biology at the EU and OIE Reference Laboratory for CSF, academic officer and lecturer (Privatdozent) at Institute for Virology in University of Veterinary Medicine Hannover, Germany. His research interests are genetic variability of RNA viruses and molecular epidemiology of CSFV, cell entry, virus-host interactions and characterization of emerging viral diseases in domestic and wild animals. Dr. Postel developed new tools for CSF diagnosis and novel marker vaccine candidates.

Douglas Gladue, PhD: Senior Scientist at the USDA Plum Island Animal Disease Center, the Scientific Director for the Global Alliance for African Swine Fever (GARA) and Treasurer-elect for the world society of virology (WSV). His main focus is on rationally designed vaccines for foreign swine diseases including ASFV and CSFV. He has recently discovered several ASFV live-attenuated vaccine platforms, one of which is a highly effective cell culture adapted ASF vaccine that has been licensed by several commercial partners. He has also discovered stable cell lines for ASFV diagnosis and quantification.

Alan P. Dargantes, DVM, MTVSc, PhD, Professor: Vice President for Research, Development & Extension Central Mindanao University, Philippines. His research interests vary from animal disease epidemiology, diagnosis and surveillance, zoonosis, ethnoveterinary medicine, one-health, transboundary animal diseases and natural product development. He was trained in disease diagnostics, epidemiology and surveillance in Australia, Asia and Europe.

Dr. Takehisa Yamamoto, DVM, PhD: Unit Leader of Epidemiology Unit in Epidemiology and Arboviral Disease Group at National Institute of Animal Health, National Agriculture and Food Research Organization. His research interests are surveillance, disease modeling and simulation, genomic analysis and import risk analysis.

Dr. Tatsuya Nishi, D.V.M. PhD: A veterinarian and a researcher at the National/OIE Reference Laboratory for CSF at the National Institute of Animal Health, Japan. His research interest is genome variability and pathogenesis of CSF and FMD, and development

of vaccine, antivirals and diagnosis methods for transboundary infectious disease viruses.

National Speakers

Tu Changchun, Ph.D & DVM: Professor and Head of OIE Reference Laboratory for Rabies at Changchun Veterinary Research Institute in Chinese Academy of Agricultural Sciences.. His research activities mainly focus on etiology, molecular epidemiology, diagnostic technology and pathogenesis of rabies, classical swine fever and bat viruses. He has over 100 peer-reviewed publications in PNAS, Plos Pathogen, Nature Commu et al.

Yang Hanchun, Ph.D & DVM: Professor at College of Veterinary Medicine in China Agricultural University. He is the head of Key Laboratory of Animal Epidemiology and Professional Laboratory of Porcine Reproductive and Respiratory Syndrome authorized by MARA. He is also the Board Member and Chairman of International Pig Veterinary Society (IPVS). His work focuses on molecular virology, molecular epidemiology, diagnostic technology and control of swine viral diseases. He has over 100 peer-reviewed publications in PLoS Pathogens, Autophagy, Journal of Virology and other peer reviewed journals.

Bu Zhi-Gao, PhD, Professor: Director General and a professor and team leader of Harbin Veterinary Research Institute of Chinese Academy of Agricultural of Sciences (CAAS), vice president of Chinese Association of Animal Science and Veterinary Medicine, and Chinese Veterinary Medical Association. He has been working on research and technology inovation for control and prevention of zoonosis and exotic animal infectious diseases. He has over 140 research papers, 36 authorized patents, two licenced products, and National Technology Invention Awards 2nd Class, and is reviewers of peer reviewed journals.

Zheng Haixue, Ph.D, Professor: Doctoral supervisor, Director of Lan Zhou Veterinary Research Institute of CAAS, vice director of the State Key Laboratory on Veterinary Etiological Biology, leading scientist of innovative team for epidemiology of FMD and emergyng disease. His interests is in fundermental theory, preventative and control technology on FMD, ASF and other emergyng diseases. He has over 70 publications in peer reviewed journals, seven new verterinary drug certificates, over 40 patents, and nine national/state awards.

Wu Xiao-Dong, Ph.D, Professor: The designated expert of National/OIE Reference Laboratory for African swine fever, the Director of National Research Center for Exotic Animal diseases in China Animal Health and Epidemiology Center. Since 2001, he has been

engaged in the research of prevention and control technology for African swine fever, peste des petits ruminants, and important exotic animal diseases such as BSE, Rift Valley fever.

Wang Qin, PhD, Professor: The designated expert of National/OIE Reference Laboratory for Classical Swine Fever (CSF) at China Institute of Veterinary Drug Control. She has made breakthrough in CSF research including epidemiology, novel diagnostic technologies, pathogenic and immune mechanism, prevention and control technologies. She has six national/province awards, 80 publications, and published 1st morphology on CSF. She received the State Council special allowance, and National Talent of "New Century Hundred-Thousand-Ten Thousand Talent Project".

Qiu Hua-Ji, PhD, Professor: Doctoral supervisor, Head of Division of Swine Infectious Diseases and leading scientist of Unit for High-Consequence Swine Viral Diseases at Harbin Veterinary Research Institute, CAAS. His interests include virus-host interactions, regulation of viral replication, virulence determinants and development of diagnostic assays and marker vaccines of CSF, ASF and pseudorabies.

Chen Jin-ding, PhD, Professor: Doctor supervisor, the academic leader of preventive veterinary medicine subject in the national key discipline in South China Agricultural University. Professor Chen's research interest is mechanism of CSFV pathogenesis and immunomodulation, as well as the development of novel diagnostic and control techniques.

Luo Ting-Rong, PhD, Professor: Professor of Guangxi University. Dr. Luo studies focus on the immunology, pathogenesis and epidemiology of CSFV, and development of serological and molecular diagnostic methods of CSFV and PRRSV.

Zhou Bin, PhD, Professor: Head of Prevention Veterinary Department in College of Veterinary Medicine, Nanjing Agricultural University, as well as a Doctoral supervisor. He is the Chief Editor of 'Animal Husbandry and Veterinary' and a visiting scientist in Cornell University. He also joins in the sixth editorial committee of 'The Chinese Journal of Virology'. His research focuses on prevention of serious epidemic diseases of CSFV and JEV.

Zhong Fa-Gang, PhD, Professor: Director General of Institute of Animal Husbandry and Veterinary Medicine in Xinjiang Academy of Agricultural Sciences. Dr. Zhong engaged in diagnosis, prevention and control of animal diseases, technology demonstration and promotion, and scientific and technological services. He has The State Scientific and

Technological Progress Award (2nd Class), and was honored as Xinjiang Production and Construction Corps Science and Technology Innovation Award, Golden Bridge Award. He has published more than 60 papers.

Yuan Lin, PhD, Senior veterinarian: Founder of "Dr. Yuan takes you to the test". He is currently engaged in the research of veterinary diagnostic standard reference materials, digital PCR and deep sequencing technologies. He has developed more than ten national standard reference materials. He led and participated in two National Key Research and Development Program of China, published nine association standards. He has more than 30 publications in peer-reviewed journals and participated in writing six books.

Song Hao, PhD, A/Prof.: A/Professor at Beijing Institutes of Life Science in Chinese Academy of Sciences (CAS), the member of Youth Innovation Promotion Association of Chinese Academy of Sciences, and the receiver of Young Elite Scientists Sponsorship Program by CAST. Dr. Song is mainly focus on the entry and pathogenic mechanism of important enveloped viruses and novel viral targets for treatment. He has over 40 publications in Cell, Science and other peer reviewed journals and participated in publishing three books. His article were elected to F1000 Prime and the Major Progress of Chinese Medicine in 2019.

Xu Lu, A/Professor: Key scientist in OIE/national Reference Laboratory for CSF in IVDC. Her research focus on diagnostic technology, CSFV epidemiology, prevention and control technology, especially in the innovative development of diagnostic reagents for CSF. She has three new veterinary drug certificates, draft five national standards, over 50 publications, nine patents and four books.

Zou Xingqi PhD, A/Prof.: A/Professor at China Institute of Veterinary Drug Control. He is working on swine viral biologics test and development of standard reference materials, especially studies on ASFV and CSFV. He has 38 publications, four edition books, five patents and one new veterinary drug certificates.

Zhang Liang: PhD candidate in Northwest Agriculture and Forestry University. . His research work is to investigate the impact of exogenous protein on CSFV proliferation and its mechanism. He also explored how CSFV takes advantage of exogenous proteins for its transportation and replication.