

WOAH Reference Laboratory Reports Activities 2024

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Classical swine fever
*Address of laboratory:	376 Chung- Cheng Road, Tamsui District, New Taipei City 25158, Taiwan, R.O.C.
*Tel:	+886226212111
*E-mail address:	ylhuang@mail.nvri.gov.tw
Website:	http://eng.nvri.gov.tw/
*Name (including Title) of Head of Laboratory (Responsible Official):	Yu-Liang Huang Associate Researcher
*Name (including Title and Position) of WOAH Reference Expert:	Yu-Liang Huang Associate Researcher
*Which of the following defines your laboratory? Check all that apply:	Veterinary Research Institute, Chinese Taipei Governmental

TOR1: DIAGNOSTIC METHODS

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)

Yes

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
CSF Virus neutralization test	Yes	10622	0
Direct diagnostic tests		Nationally	Internationally
CSF Virus isolation	Yes	261	0
CSF Real-time RT-PCR	Yes	27127	0

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOA?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA Members?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA Members?

No

TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOA Standards for the designated pathogen or disease?

No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

No

9. Did your laboratory validate vaccines according to WOA Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOA Members?

No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOA Member?

No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOA Members other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAH Member Countries involved other than your country
The collaboration of the development of the agriculture and food industry in Japan and Taiwan	2020-2025	To strategically cooperate for fostering the development of agricultural and food science and technology	National Institute of Animal Health, NARO	JAPAN

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAHP?

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:

The antigen and antibody surveillance of CSFV in domestic pigs and wild boars in Taiwan

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:

The antigen and antibody surveillance of CSFV in domestic pigs and wild boars in Taiwan

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

b) International conferences:

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27th International Pig Veterinary Society Congress&15th European Symposium of Porcine Health Management

1. Y.L. Huang, C.Y. Chang, K.J. Tsai, H.M. Liu, S.H. Tsai, M.C. Deng, N.N. Lin. Comparison of the Protection of Maternally Derived Antibodies in the Piglets Born to Sows Vaccinated with Either E2 Subunit Vaccine or Attenuated Live Vaccine of Classical Swine Fever Virus

2. H.M. Liu, M.C. Deng, Y.L. Huang, K.J. Tsai, H.W. Chang, C.Y. Chang. The Competitive Fitness of Different Genotypes of Classical Swine Fever Virus under the Selective Pressure of Antibodies in Vitro

c) National conferences:

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1. Y.C. Huang, Y.L. Huang, C.S. Lin, C.Y. Chang. Comparing the Immune Regulation Effects of Different Genotypes of Classical Swine Fever Viruses

d) Other (Provide website address or link to appropriate information):

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOA Members?

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/IEC 17025:2017	ISO/IEC 17025:2017 Classical swine fever (hog cholera) virus isolation test Classical swine fever virus (CSFV) real-time reverse transcription polymerase chain reaction (RRT-PCR) test Virus neutralizing antibody test of classical swine fever	L0855-241218_EN.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
CSF Virus neutralization test	ILAC-TAF
CSF Virus isolation	ILAC-TAF
CSF Real-time RT-PCR	ILAC-TAF

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

Yes

1. SOP of National exotic animal disease laboratory 2. Emergence plant of National exotic animal disease laboratory 3. Biosecurity of National exotic animal disease laboratory

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOA?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOA?

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOA Reference Laboratories designated for the same pathogen or disease?

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Yes

24. Do you network (collaborate or share information) with other WOA Reference Laboratories designated for the same pathogen?

Not applicable (only WOA Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOA Reference Laboratories designated for the same pathogen during the past 2 years?

Yes

Purpose of the proficiency test:	Role of your Reference Laboratory (organiser/ participant)	No. participating Laboratories	Participating WOA Ref. Labs/ organising WOA Ref Lab
INTER-LABORATORY COMPARISON TEST FOR CLASSICAL SWINE FEVER 2023/2024	PARTICIPANT	unknown	Organiser: University of Veterinary Medicine Hannover, Institute of Virology EU and OIE Reference Laboratory for CSF

26. Did your laboratory collaborate with other WOA Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

Yes

Title of the project or contract	Scope	Name(s) of relevant WOA Reference Laboratories
Characterization of monoclonal antibodies against Classical Swine fever Virus	Testing of novel monoclonal antibodies against Classical Swine fever Virus using different pestivirus strains (including various genotypes of CSFV)	University of Veterinary Medicine Hannover, Institute of Virology EU and OIE Reference Laboratory for CSF
Epitope mapping of the structural protein E2 of classical swine fever virus	Target epitope characterization of monoclonals targeting CSFV E2 glycoprotein	Animal & Plant Health Agency, United Kingdom

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOA Reference Laboratories for the same pathogen during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOA Member Countries
Asia-Pacific Terrestrial Proficiency Test Program	PARTICIPANT	23	Asia-Pacific Terrestrial Proficiency Test Program	AUSTRALIA,

TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOA?

Yes

Kind of consultancy	Location	Subject (facultative)
To provide a consensus document of the		

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WOAH Terrestrial Manual, chapter on classical swine fever	by email	Update the Terrestrial Manual, chapter on classical swinefever
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29. Additional comments regarding your report:

No