

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-13 03:43:19

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Classical swine fever
Address of laboratory:	Animal Health Research Institute (AHRI) Division of Classical Swine Fever 376 Chung-Cheng Rd Tamsui District New Taipei City 25158 CHINESE TAIPEI
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Website:	https://eng.nvri.gov.tw/rwd/category.aspx?CategoryID=9zphtXMFgYo%3d
Name (including Title) of Head of Laboratory (Responsible Official):	Chia-Yi Chang: Researcher
Name (including Title and Position) of OIE Reference Expert:	Chia-Yi Chang: Researcher
Which of the following defines your laboratory? Check all that apply:	Governmental

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
CSF Virus neutralization test	Yes	13,689	0
Direct diagnostic tests		Nationally	Internationally
CSF Virus isolation	Yes	870	0
CSF Real-time RT-PCR	Yes	37,056	0

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

No

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE 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

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological 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

12. Did your laboratory disseminate epizootiological 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

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

a) Articles published in peer-reviewed journals: 1

1. Huang, Y.L., Meyer, D., Postel, A., Tsai, K.J., Liu, H.M., Yang, C.H., Huang, Y.C., Berkley, N., Deng, M.C., Wang, F.I., Becher, P., Crooke, H., *Chang, C.Y., 2021. Identification of a Common Conformational Epitope on the Glycoprotein E2 of Classical Swine Fever Virus and Border Disease Virus. *Viruses* 13, 1655.

b) International conferences: 0

c) National conferences: 2

1. Chang CY. Global situation, diagnosis and control of classical swine fever. August 25, 2021. Taiwan.
2. Chang CY. Global situation and control of classical swine fever. December 01, 2021. Taiwan.

d) Other:

(Provide website address or link to appropriate information) 1

1. <https://eng.nvri.gov.tw/rwd/category.aspx?CategoryID=pe%2f4aVdaa4%3d>

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries

To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO/IEC 17025:2017	TAF-2021_EN.pdf

16. 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

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

Yes

(See *Manual of Diagnostic Tests and Vaccines for Terrestrial Animals*, Chapter 1.1.4)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
The 3rd OIE Regional Meeting for OIE Reference Centres in Asia and the Pacific	24-25 February 2021	Virtual meeting	short communications	Group discussion

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

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

Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
The inter-laboratory comparison test (ILCT) 2021 for Classical swine fever (CSF)	participant	41	Organiser: University of Veterinary Medicine Hannover, Institute of Virology EU and OIE Reference Laboratory for CSF
ACDP-AAHL-South East Asia Regional Proficiency Test 2021	participant	unknown	Organiser: CSIRO, AUSTRALIAN ANIMAL HEALTH LABORATORY

¹ validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

22. Did your laboratory collaborate with other OIE 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 OIE 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

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: <http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
To improve the standard and quality of laboratory services of classical swine fever virus	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

Yes

Kind of consultancy	Location	Subject (facultative)
To provide a consensus document of the OIE Terrestrial Manual, chapter on classical swine fever	by email	Update the Terrestrial Manual, chapter on classical swine fever

25. Additional comments regarding your report: