

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 24 février 2025 13:06

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Classical swine fever
*Address of laboratory:	Animal and Plant Health Agency, New Haw, Addlestone Surrey KT15 3NB UK
*Tel:	+44-208 026 9665
*E-mail address:	helen.crooke@apha.gov.uk
Website:	https://www.gov.uk/government/organisations/animal-and-plant-health-agency
*Name (including Title) of Head of Laboratory (Responsible Official):	Jenny Stewart Chief Executive officer
*Name (including Title and Position) of WOAH Reference Expert:	Dr Helen Crooke, Head of Swine Fever and Pestivirus Research. Deputy Mammalian Virology Workgroup leader
*Which of the following defines your laboratory? Check all that apply:	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
CSFV antibody ELISA	Yes	3483	0

Helen Crooke - - UNITED_KINGDOM

CSFV Antibody NPLA	Yes	15	0
Direct diagnostic tests		Nationally	Internationally
CSFV RT PCR	Yes	1	0

TOR2: REFERENCE MATERIAL

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

No

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

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOA?H Member Countries	Country of recipients
WH303 mab	Virus detection	Provided	66	85	9	CHINA (PEOPLE'S REP. OF), CHINESE TAIPEI, CZECH REPUBLIC, FRANCE, JAPAN, KOREA (REP. OF), THAILAND, UNITED STATES OF AMERICA,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA?H 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?H 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?H Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOA?H 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
Epitope mapping of the structural protein E2 of pestiviruses	Ongoing	Characterisation of epitopes to enhance differential diagnosis	Animal Health research Institute Taiwan/School of veterinary medicine National Taiwan University	CHINESE TAIPEI
Characterisation of pestivirus monoclonal antibodies	Ongoing	Characterisation of monoclonal antibodies to assist in diagnosis of infections with pestiviruses	University of Veterinary medicine, Hannover Germany	GERMANY

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

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:

Data collected to support continued disease freedom

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

No

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:

0

b) International conferences:

2

Upside down immunity: The highly efficacious live attenuated CSFV vaccine induces a strong cDC2 response, while subunit vaccines upregulate cDC1 cells

Elliot Steedman, Jane Edwards, Stephen McCleary, Rebecca Strong, Yusmel Sordo-Puga, María Pilar Rodríguez-Moltó, Helen Crooke and Falko Steinbach

17th International Symposium on Dendritic cells Sitges Spain Oct 2024

Live attenuated and E2-based subunit vaccines against classical swine fever induce different dendritic cell and T cell responses, confirming effective protection by different mechanisms

Elliot Steedman, Jane Edwards, Stephen McCleary, Rebecca Strong, Yusmel Sordo-Puga, María Pilar Rodríguez-Moltó, Helen Crooke, Falko Steinbach

8th European Veterinary Immunology workshop Dublin Sept 2024

c) National conferences:

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 H 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)	
ISO17025	pdf	ISO17025_Certificate[1].pdf
ISO9001	pdf	ISO_9001_Certificate[1].pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
CSFV virus isolation	UKAS
CSFV /ASFV RT- PCR	UKAS
CSFV antibody ELISA	UKAS
Pestivirus comparative neutralisation assay	UKAS
CSFV antigen ELISA	UKAS

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

Yes

APHA maintains a complete and functional laboratory biological risk management system which ensure that the laboratory is in compliance with applicable local, national (UK Health and Safety Executive), regional and international standards and requirements for biosafety and laboratory biosecurity

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?

Yes

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

No

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
PT0036 Detection of CSFV antibodies by ELISA or neutralisation	Organiser and participant	10	Animal and Plant Health Agency, UK Organiser
CSF Inter laboratory Comparison test 2024	Participant	Not known	University of Veterinary Medicine Hannover, Germany (Organiser)

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
Epitope mapping of the E2 protein of Classical swine fever	Target epitope characterization of monoclonals targeting CSFV E2 glycoprotein	Animal Health Research Institute, Chinese Taipei
Characterisation of pestivirus monoclonal antibodies	Testing of monoclonal antibodies using pestivirus strains that were discovered in ruminants, pigs or in non-ungulate hosts	University of Veterinary, Medicine of Hannover, Germany

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAHP 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	WOAH Member Countries
PT0036 Detection of CSFV antibodies by ELISA or neutralisation	Organiser and participant	10	CSFV Antibody ELISA CSFV NPLA/SNT	AUSTRALIA, BRAZIL, MALTA, NEW ZEALAND, SERBIA, SOUTH AFRICA, UNITED KINGDOM,

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Review and update of technical manual	Online	Update of section on vaccination and inclusion of tables on purpose of diagnostic tests in collaboration with the other CSFV WOAHP laboratories

29. Additional comments regarding your report:

No