

# WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 31 janvier 2025 15:03

## LABORATORY INFORMATION

|                                                                                              |                                                                                       |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:</b> | Classical swine fever                                                                 |
| <b>*Address of laboratory:</b>                                                               | Partyzantow Str. 57, 24-100 Pulawy                                                    |
| <b>*Tel:</b>                                                                                 | +48-81 889 30 30                                                                      |
| <b>*E-mail address:</b>                                                                      | Katarzyna.Podgorska@piwet.pulawy.pl                                                   |
| <b>Website:</b>                                                                              | <a href="https://www.piwet.pulawy.pl/">https://www.piwet.pulawy.pl/</a>               |
| <b>*Name (including Title) of Head of Laboratory (Responsible Official):</b>                 | Professor Stanisław Winiarczyk, DVM, PhD, ScD                                         |
| <b>*Name (including Title and Position) of WOAH Reference Expert:</b>                        | Katarzyna Podgorska, MSc, PhD, Assistant Professor, Head of Swine Diseases Department |
| <b>*Which of the following defines your laboratory? Check all that apply:</b>                | 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 |
| ELISA                     | Yes                               | 2920                                     | 0               |
| Virus Neutralisation Test | Yes                               | 16                                       | 0               |
|                           |                                   |                                          |                 |

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| Direct diagnostic tests |     | Nationally | Internationally |
|-------------------------|-----|------------|-----------------|
| RT-PCR                  | Yes | 229        | 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 |
|---------------------------------------------------------------------------|------------------------------|--------------------------------------|------------------------------------------------------------------|------------------------------------------|-----------------------------------------|-----------------------|
| Certified Reference Material: Serum positive for CSFV-specific antibodies | ELISA, VNT                   | Produced/provided                    | 23 ml                                                            | No requests from other countries         | 1                                       | POLAND,               |
| Certified Reference Material: Serum negative for CSFV-specific antibodies | ELISA, VNT                   | Produced/provided                    | 21 ml                                                            | No requests from other countries         | 1                                       | POLAND,               |
| Reference Positive Control for RT-PCR                                     | RT-PCR                       | Produced 37.5 ml /provided 5 ml      | 5 ml                                                             | No requests from other countries         | 1                                       | POLAND,               |
| Isolates of Reference CSFV strains                                        | Virus isolation, RT-PCR, VNT | Produced 3 strains 10 ml/ Provided 0 | Own use. No requests from other organisations in reported period | No requests from other countries         | 1                                       | POLAND,               |
| CSFV cDNA (genotype 1.1 and 2.3)                                          | RT-PCR                       | Produced 1 ml/Provided 300 ul        | 0                                                                | 300 ul                                   | 1                                       | UKRAINE,              |
| Reference Negative Control for RT-PCR                                     | RT-PCR                       | Produced 16.5 ml/provided 5 ml       | 5 ml                                                             | No requests from other countries         | 1                                       | POLAND,               |

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 WOAHP 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 WOAHP Standards for the designated pathogen or disease?

No

## TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

No

## TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

| Title of the study                           | Duration  | Purpose of the study                                                                                                                                                                                                                                                             | Partners (Institutions)                                                                                          | WOAHP Member Countries involved other than your country                                     |
|----------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Rapid Risk Assessment (EUPAHW 002, SOA10)    | 2024-2026 | Rapid Risk Assessment (RRA) is a project within the European Partnership on Animal Health and Welfare. The aim of the project is to adapt risk assessment and alert communication to the new needs in animal health and welfare and improve epidemic intelligence methodologies. | UCPH, UoS, NVI, APHA, CIRAD, CSIC, WBVR, IMR, SVA, INRAE, EFSA, PIWET, UGENT, IZS, UNITO, IZSLT, Sciensanco, SSI | BELGIUM DENMARK<br>FRANCE ITALY NORWAY<br>SPAIN SWEDEN THE<br>NETHERLANDS UNITED<br>KINGDOM |
| Better tools for the diagnosis of infectious | 2024-2026 | Better tools for the diagnosis of infectious diseases (BETO) is a project within the European Partnership on Animal Health and Welfare. The aim of the                                                                                                                           | ANSES, CIRAD, CSIC, DEFRA, DTU, EULS, FLI, IMR, INIAV, INRAE, ISS, IZSLER, IZSLT, IZS-Teramo,                    | BELGIUM DENMARK<br>ESTONIA FINLAND<br>FRANCE GEORGIA<br>GERMANY ITALY NORWAY                |

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|                              |                                                                                                                    |                                                                                          |                                                               |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| diseases (EUPAHW 003, SOA12) | project is to develop diagnostic procedures, methodologies and tools to support the surveillance of animal health. | NVI, PIWET, RIVM, Sciensano, SLA, SLU, SSI, UoS, SVA, UAB, UCPH, UGent, UNIPD, UNITO, WR | PORTUGAL SPAIN<br>SWEDEN THE<br>NETHERLANDS UNITED<br>KINGDOM |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|

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

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 on surveillance of the swine and wild boar population for the presence of CSF in Poland.

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:

Results of passive and active surveillance of swine and wild boar populations are regularly reported to the European Union Reference Laboratory for CSF and published annually together with data from other EU countries.

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:

1

*Label-Free Detection of African Swine Fever and Classical Swine Fever in the Point-of-Care Setting Using Photonic Integrated Circuits Integrated in a Microfluidic Device. Georgios Manassis, Maciej Frant, Katarzyna Podgórska, Anna Gal-Cisoń, Magdalena Łyjak, Kinga Urbaniak, Grzegorz Woźniakowski, Lilla Denes, Gyula Balka, Lapo Nannucci, Amadeu Griol, Sergio Peransi, Zoitsa Basdagianni, Christos Mourouzis, Alessandro Giusti, Ioannis Bossis. Pathogens. 2024 May 16;13(5):415. doi: 10.3390/pathogens13050415.*

b) International conferences:

c) National conferences:

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

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*Results of passive and active surveillance for CSFV are submitted annually to the WOA and EU Reference Laboratory for CSF in Hanover, published in Country and Wild*

*Boar Reports (<https://www.tiho-hannover.de>)*

*Presentations in two national workshops for veterinary inspection and agriculture advisory organizations: Katarzyna Podgórska "Classical swine fever".*

## 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)        |            |
|-----------------------------------|------------------------------------------------|------------|
| PN/EN ISO/IEC 17025:2018-02       | Certificate of Polish Centre for Accreditation | AB1090.pdf |

19. Is your quality management system accredited?

Yes

| Test for which your laboratory is accredited | Accreditation body              |
|----------------------------------------------|---------------------------------|
| ELISA , RT-PCR, VNT                          | Polish Centre for Accreditation |

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

Yes

Our institute maintains a complete and functioning laboratory biological risk management system that ensures that the laboratory is in compliance with applicable local, national, regional, and international standards and requirements for biosafety and laboratory biosecurity (in accordance with the WOA Terrestrial Manual, Chapter 1.1.4). All the work related to classical swine fever virus is performed in agreement with a set of biosafety and biosecurity standard operating procedures. Laboratory tests are performed in Pathogen Containment Level 2 or 3 laboratories (depending on the identified risk), and the work with an infectious virus is performed in Pathogen Containment Level 3 laboratory only. Additional procedures are implemented to verify and continually improve the laboratory performance and management system.

## TOR9: SCIENTIFIC MEETINGS

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

No

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

No

## TOR10: NETWORK WITH WOA?H REFERENCE LABORATORIES

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

Yes

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

Yes

| NETWORK/DISEASE                                                                               | ROLE OF YOUR LABORATORY<br>(PARTICIPANT, ORGANISER, ETC) | NO. PARTICIPANTS | PARTICIPATING WOA?H REF. LABS                                                                              |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------|
| Classical swine fever<br>(collaboration on updating CSF<br>Chapter in the Terrestrial Manual) | Participant                                              | 8                | Canada, Chinese Taipei, Germany,<br>Japan, People's Republic of<br>China, Spain, United Kingdom,<br>Poland |

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

Yes

| Purpose of the proficiency test:                                                                             | Role of your Reference<br>Laboratory (organiser/<br>participant) | No. participating Laboratories | Participating WOA?H Ref. Labs/<br>organising WOA?H Ref Lab                                                                                                               |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Determining a laboratory's<br>capability to conduct specific<br>diagnostic tests (RT-PCR, ELISA,<br>VNT, VI) | participant                                                      | 32                             | Organised by the WOA?H CSF<br>Reference Laboratory - University<br>of Veterinary Medicine of<br>Hannover, Department of<br>Infectious Diseases, Institute of<br>Virology |

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

No

## TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

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

Yes

| Purpose for inter-laboratory test comparisons <sup>1</sup> | Role of your reference laboratory<br>(organizer/participant) | No. participating laboratories | Name of the test | WOA?H Member Countries |
|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|------------------|------------------------|
|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|------------------|------------------------|

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|                                                                                                 |                                                          |    |       |         |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------|----|-------|---------|
| Determining a laboratory's capability to conduct specific diagnostic tests (organized annually) | Organizer (participants - state veterinary laboratories) | 10 | ELISA | POLAND, |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------|----|-------|---------|

## TOR12: EXPERT CONSULTANTS

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

Yes

| Kind of consultancy         | Location | Subject (facultative)                                                                                                    |
|-----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------|
| Update of the WOA standards | Remote   | Update of the WOA Terrestrial Manual, Chapter 3.9.3 "Classical swine fever (infection with classical swine fever virus)" |

29. Additional comments regarding your report:

Yes

*ToR 3 New procedures & ToR 4 Diagnostic testing facilities: Well-characterized and validated methods are available for CSF diagnostics. The laboratory performs evaluation of commercial kits for CSF on request (one RT-PCR commercial kit evaluated in 2024) and regularly tests new batches of commercial ELISA kits, to ensure their proper sensitivity and specificity (three new batches tested in 2024). Classical swine fever is absent in the region and no external requests for testing or training were submitted during the reported period. The laboratory is fully prepared to provide the infrastructure, resources, and expertise for international testing or training if required.*

*ToR 7 Scientific and technical training: In 2024 there were no requests for technical training. The laboratory is fully prepared to provide the infrastructure and expertise for international training if required. Seminars and trainings for Polish veterinary services and agriculture advisory organizations are organized annually.*