

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-02-02 15:14:01

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Porcine reproductive and respiratory syndrome
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Name (including Title) of Head of Laboratory (Responsible Official):	Professor Krzysztof Niemczuk, DVM, PhD, ScD, General Director of the NVRI
Name (including Title and Position) of OIE Reference Expert:	Katarzyna Podgórska MSc, PhD, Assistant Professor
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
ELISA	yes	8034	0
Direct diagnostic tests		Nationally	Internationally
RT-PCR	yes	1536	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?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Serum positive for PRRS-specific antibodies	ELISA, IPMA	produced/provided	3 ml	5 ml	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Serum negative for PRRS-specific antibodies	ELISA, IPMA	produced/provided	1 ml	0	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

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?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
DENMARK	validation of RT-PCR assay for detection of PRRSV - requirements, stages of preparation and proceedings.	Remote
THE NETHERLANDS	Protocols for IPMA and IFA for detection of PRRSV-specific antibodies	Online meeting

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
Swine diseases field diagnostics toolbox - SWINOSTICS	2017-2021	Developing a novel field diagnostic device, based on advanced, proven, biosensing technologies, for detection of viruses causing epidemics in swine farms and leading to relevant economic damages	Cyprus Research and Innovation Center, Agricultural University of Athens, Kontor Di Bonasso Matteo SAS, Consiglio Nazionale Delle Ricerche, ISS BioSense s.r.l. Italy, Lumensia Sensors SL, Universitat Politecnica de Valencia, Allatorvostudományi Egyetem, Università Degli Studi di Firenze	CYPRUS GREECE HUNGARY ITALY SPAIN

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:
Monitoring of PRRSV infections in Poland.

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 percentage of positive herds in different districts, typing and ORF5 sequencing in selected herds.

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: 0

b) International conferences: 1

c) National conferences: 1

Presentation during The 1st Symposium on PRRS Prevention and Control in China 4th Sept 2021. "The disease status and evolutionary trends of PRRS in the EU countries". K. Podgorska

d) Other:

(Provide website address or link to appropriate information) 3

Presentation during the OIE Virtual Event: Diagnosis and Control of Porcine Reproductive and Respiratory Syndrome. 9-10 Dec 2021. "PRRS situation and control strategies in Europe". K. Podgorska

Presentation at International Workshop "SWINOSTICS - Swine diseases field diagnostics toolbox"; Frant M. "The importance of Point-of-Care devices in animal health diagnostics" (online, 29th Oct 2021, hosted by CyRIC, Cyprus)

Presentation at a National Workshop: "SWINOSTIC Project Workshop"

"Swinostic device for rapid diagnostics of swine diseases - CSFV, ASFV, SIV, PPV, PCV2, PRRS" M. Frant (online, 22.10.2021, hosted by NVRI, Poland)

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)
PN-EN ISO/IEC 17025:2018-02	AB1090.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISA	Polish Centre for Accreditation

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
OIE Virtual Event: Diagnosis and Control of Porcine Reproductive and Respiratory Syndrome	December 2021	online, hosted by OIE RRAP, Tokyo	speaker	PRRS situation and control strategies in Europe

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?

No

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?

No

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
Validation of a diagnostic protocol: ELISA (organizer, organized for national state veterinary laboratories)	4	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" 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?

No

25. Additional comments regarding your report:

In 2021 no international diagnostic samples were submitted to the laboratory, also there was no request for international training. The porcine reproductive and respiratory syndrome is endemic in Europe and a network of reliable diagnostic laboratories providing diagnosis is well developed. The laboratory is fully prepared to provide the infrastructure, resources and expertise for international testing and training if required.