OIE Reference Laboratory Reports Activities

Activities in 2020

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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):	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	
Indirect diagnostic tests		Nationally	Internationally
ELISA	yes	7709	0
Direct diagnostic tests		Nationally	Internationally
RT-PCR	yes	966	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
PRRSV-1 strain isolated in cell culture (inactivated)	RT-PCR	Produced	-	2 ml	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
PRRSV-2 strain isolated in cell culture (inactivated)	RT-PCR	Produced	-	2 ml	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
Serum positive for PRRSV-1 specific antibodies	ELISA	Produced	-	8 ml	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
Serum positive for PRRSV-2 specific antibodies	ELISA	Produced	-	8 ml	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐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
CHILE	Evaluation of ELISA method efficacy for detection of PRRSV-specific antibodies	Remote

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 Univeristy of Athens, Kontor Di Bonasso Matteo SAS, Consiglio Nazionale Delle Ricerche, ISS BioSense s.rl. Italy, Lumensia Sensors SL, Universitat Politecnica de ValeciaA, Allatorvostudomanyi Eygetem, Universita 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:
Evaluation of the pathogenicity of the PRRSV-1 strain isolated in central Europe.

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:
Results of the animal infection study published in a peer-review journal.

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
"Kinetics of single and dual simultaneous infection of pigs with swine influenza virus and porcine reproductive and respiratory syndrome virus" by Pomorska-Mól, Małgorzata; Podgórska, Katarzyna ; Czyżewska-Dors, Ewelina; Turlewicz-Podbielska, Hanna; Gogulski, Maciej; Wlodarek, Jan; Lukomska, Anna,

b) International conferences: 0

c) National conferences: 0

d) Other:
(Provide website address or link to appropriate information) 1
Discontools database/PRRS https://www.discontools.eu/database.html

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?

No

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?

No

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 (participant)	88	☐Africa ☒Americas ☒Asia and Pacific ☒Europe ☐Middle East
Validation of a diagnostic protocol: ELISA (organizer, organized for national state veterinary laboratories)	5	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐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)
Review of the OIE standards	Remote	Update of the OIE Terrestrial Manual, Chapter 3.8.6 Porcine reproductive and respiratory syndrome

25. Additional comments regarding your report:

In 2020 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 except Hungary, no policy on control of the disease nor relevant trade restrictions has been implemented. The network of reliable diagnostic laboratories providing diagnosis is well developed, and the demand for international confirmatory testing by the OIE Reference Laboratory is low. The laboratory is fully prepared to provide the infrastructure, resources and expertise for international testing and training if required.