

# OIE Reference Laboratory Reports Activities

## *Activities in 2019*

**This report has been submitted : 2020-01-16 16:41:18**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Porcine reproductive and respiratory syndrome
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Krzysztof Niemczuk, DVM, PhD, ScD, Director General
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Katarzyna Podgórska, MSc, PhD, Assistant Professor
<b>Which of the following defines your laboratory? Check all that apply:</b>	Governmental Research

**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	5164	29
Direct diagnostic tests		Nationally	Internationally
RT-PCR	yes	780	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
Porcine serum positive for PRRSV-1 antibodies	ELISA	Produced	0	4 ml	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Porcine serum positive for PRRSV-2 antibodies	ELISA	Produced	0	4 ml	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
RNA of PRRSV-1	RT-PCR	Produced	0	400 µl	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
RNA of PRRSV-2	RT-PCR	Produced	0	200 µl	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <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?

Yes

Name of OIE Member Country seeking assistance	Date (month)	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
BULGARIA	September	29	0

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
BRAZIL	Serological diagnostics for PRRS, resolving false positive ELISA results, detailed protocol for IPMA/IFA	Via e-mail
SERBIA	Molecular diagnostics of PRRS	Via e-mail
FINLAND	Serological diagnostics for PRRS, resolving false positive results of ELISA	Via e-mail

**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 to tackle 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 Politècnica de València, Allatorvostudományi Egyetem, Università Degli Studi di Firenze	CYPRUS GREECE HUNGARY ITALY SPAIN
Joint Lab for Animal Disease Control	2017 - open-ended	Boosting the development of Lanzhou Veterinary Research Institute and National Veterinary Research Institute diagnostic and scientific capacity through expertise and scientific exchange	Lanzhou Veterinary Research Institute (LVRI), Chinese Academy of Agricultural Sciences	CHINA (PEOPLE'S REP. OF)

***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:
Prevalence of PRRS in Poland and genetic diversity of PRRSV strains 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:
Prevalence of PRRS in Poland and genetic diversity of PRRSV strains in Central Europe, analysis of gaps in PRRS-related knowledge and scoring for prioritising research in the PRRS area.

**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: 2

Montagnese C, Barattini P, Giusti A, Balka G, Bruno U, Bossis I, Gelasakis A, Bonasso M, Philmis P, Dénes L, Peransi S, Rodrigo M, Simón S, Griol A, Wozniakowski G, Podgorska K, Pugliese C, Nannucci L, D'Auria S, Varriale A. A Diagnostic Device for In-Situ Detection of Swine Viral Diseases: The SWINOSTICS Project. *Sensors*. 2019, 19, 407, 1-11.

Czyżewska-Dors E., Pomorska-Mól M., Dors A., Pluta A., Podgórska K., Kwit K., Stasiak E., Łukomska A. Proinflammatory cytokine changes in bronchoalveolar lavage fluid cells isolated from pigs infected solely with porcine reproductive and respiratory syndrome virus or co-infected with swine influenza virus. *J Vet Res* 63, 2019, 489-495.

b) International conferences: 0

c) National conferences: 1

Podgorska K. 2019. New data on porcine reproductive and respiratory syndrome presented at the ESPHM Symposium. 9th Polish Conference "Echoes of Congresses", pp 63-69, APRA wetpress [in Polish]

d) Other:

(Provide website address or link to appropriate information) 3

Discontools database/PRRS. <https://www.discontools.eu/database.html>

K. Podgorska. The Epidemiology of Classical Swine Fever, African Swine Fever, and Podgorska K. Swine Reproductive and Respiratory Syndrome in Poland. Presentation during a Seminar on Animal Disease Prevention and Control in China and Poland (LVRI-PIWet-PIB, Lanzhou Veterinary Research Institute-Polish National Veterinary Research Institute). 29th of Oct 2019, Lanzhou, China.

Wozniakowski G. Porcine respiratory and reproduction syndrome (PRRS). Recent observations in Poland and affected countries. Presentation at the Workshop on Emerging Swine Diseases, 2-4 Oct 2019, Santiago, Chile.

**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?

Yes

a) Technical visits: 0

b) Seminars: 1

c) Hands-on training courses: 1

d) Internships (&gt;1 month): 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
b	Chile	50
c	Chile	1

**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 17025:2005	Certificate_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 <sup>1</sup>	No. participating laboratories	Region(s) of participating OIE Member Countries
Determining a laboratory's capability to conduct specific diagnostic tests (national state laboratories, ELISA)	6	<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: