

OIE Reference Laboratory Reports Activities

Activities in 2019

This report has been submitted : 2020-01-14 10:45:50

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Paratuberculosis
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Name (including Title) of Head of Laboratory (Responsible Official):	Mgr. Iva Slana, Ph.D.
Name (including Title and Position) of OIE Reference Expert:	Mgr. Iva Slana, Ph.D.
Which of the following defines your laboratory? Check all that apply:	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	2723	0
Direct diagnostic tests		Nationally	Internationally
real time PCR	yes	582	11

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?

No

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
SLOVAKIA	during whole year	12	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
FRANCE	problems with PTB - diagnostic and interpretation of results	personally ans via email
IRAN	setting up a diagnosis	via email
BANGLADESH	starting screen PTB in cattle	via email

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?

No

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?

No

If the answer is no, please provide a brief explanation of the situation:
Collected data are not yet relevant to the international disease control.

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:
Details are mentioned below

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

Lorencova A., Babak V., Kralova A., Borilova G.: Survival of Mycobacterium avium subsp. paratuberculosis in raw fermented sausages during production and storage. Meat Science, 2019, 155, 20-26.

Whittington R, Donat K, Weber MF, Kelton D, Nielsen SS, Eisenberg S, Arrigoni N, Juste R, Saez JL, Dhand N, Santi A, Michel A, Barkema H, Kralik P, Kostoulas P, Citer L, Griffin F, Barwell R, Moreira MAS, Slana I, Koehler H, Singh SV, Yoo HS, Chavez-Gris G, Goodridge A, Oceppek M, Garrido J, Stevenson K, Collins M, Alonso B, Cirone K, Paolicchi F, Gavey L, Rahman MT, de Marchin E, Van Praet W, Bauman C, Fecteau G, McKenna S, Salgado M, Fernandez-Silva J, Dzedzinska R, Echeverria G, Seppanen J, Thibault V, Fridriksdottir V, Derakhshandeh A, Haghkhah M, Ruocco L, Kawaji S, Momotani E, Heuer C, Norton S, Cadmus S, Agdestein A, Kampen A, Sztejn J, Frossling J, Schwan E, Caldow G, Strain S, Carter M, Wells S, Munyeme M, Wolf R, Gurung R, Verdugo C, Fourichon C, Yamamoto T, Thapaliya S, Di Labio E, Ekgatat M, Gil A, Alesandre AN, Piaggio J, Suanes A, de Waard JH.: Control of paratuberculosis: who, why and how. A review of 48 countries BMC Veterinary Research 15, 2019, Article Number:198Published:JUN 13 2019

b) International conferences: 3

Slana, I. Employment of MOL-PCR in bacterial pathogen detection in small ruminants. xMAP connect 2019, 2019, Amsterdam, 5.-6.10.2019, 46.

Beinhauerova, M., Kralik, P.: Quantification of qPCR standards using digital PCR. XXVIII. Tomáškovy dny mladých mikrobiologů, 2019, Brno, 6.6. - 7.6.2019, 41. ISBN: 978-80-210-9296-9.

Beinhauerova, M., Slana, I., Kralik, P.: Creation and stability testing of the reference standard for the detection and quantification of Mycobacterium avium subsp. paratuberculosis in faeces by qPCR. XXVIII. Tomáškovy dny mladých mikrobiologů, 2019, Brno, 6.6. - 7.6.2019, 40. ISBN: 978-80-210-9296-9.

c) National conferences: 3

Beinhauerová M., Králík P.: Kvantifikace qPCR standardů s využitím digitální PCR. Rutinní analýza nukleových kyselin, 2019, Pardubice 6.2-7.2.2019, 42. ISBN: 978-80-87436-15-8.

Beinhauerova M., Slana, I., Kralik, P.: Konstrukce a testování stability referenčního standardu pro detekci a kvantifikaci Mycobacterium avium subsp. paratuberculosis v trusu metodou qPCR. 2019, Pardubice 6.2-7.2.2019,

43. ISBN: 978-80-87436-15-8.

Husakova, M., Kralik, P., Slana, I.: Metoda magnetických separací jako nástroj pro účinnější detekci mykobakterií? 2019, Pardubice 6.2-7.2.2019, 45. ISBN: 978-80-87436-15-8.

d) Other:

(Provide website address or link to appropriate information) 1

Information about paratuberculosis in small ruminants - conference:

<https://new.schok.cz/cs/aktuality/konference-kouty-8-9-11-2019/>

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: 0

d) Internships (>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	France	50

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)
ISO 17025	Quality MS.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISA	ČIA (Czech Institution for Accreditation)
Cultivation	ČIA (Czech Institution for Accreditation)
Microscopy	ČIA (Czech Institution for Accreditation)
Real Time PCR	ČIA (Czech Institution for Accreditation)
konventional PCR	ČIA (Czech Institution for Accreditation)

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

No

(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
Seminar of GDS	22.4. - 26.4.2019	France	speaker	Paratuberculosis in cattle

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
Comparison of real time PCR results in fecal samples	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?

Yes

Kind of consultancy	Location	Subject (facultative)
review of OIE manual	OIE	OIE

25. Additional comments regarding your report:

