

# **OIE Reference Laboratory Reports Activities**

## ***Activities in 2014***

**This report has been submitted : 2015-02-03 15:30:40**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Leptospirosis
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dr S. McDowell, Director of Institute
<b>Name (including Title and Position) of OIE Reference Expert:</b>	William A. Ellis
<b>Which of the following defines your laboratory? Check all that apply:</b>	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
MAT	Yes	4306	1460
ELISA	Yes	1778	
Direct diagnostic tests		Nationally	Internationally
Culture	Yes	42	
FA	Yes	889	12
PCR	Yes	178	35
REA	Yes	40	8

**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
Leptospira serowars	MAT	2500	2000	500	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Leptospira antisera	MAT	200	180	20	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Immunofluorescence conjugate	FAT	80	40	40	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
IRELAND	Jan-Dec	146	
THE NETHERLANDS	June	48	

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
INDIA	Diagnosis of leptospirosis in animals	workshop
POLAND	Diagnosis of leptospirosis in animals	workshop
INDONESIA	Diagnosis of leptospiral abortions in animals	remote assistance
BELGIUM	Isolation of Leptospire	remote assistance

**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)
Leptospira seroprevalance study in dog	2013-2014	Identification of leptospira infections in dog population	University College Dublin
Leptospira dog study	Jan-Sept	Evaluation of diagnostic test in dogs	MSD, Belgium

**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

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

Yes

**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: 2

Krajewska J., Arent Z., Kedzierska-Mieszkowska S. (2014) Expression and immunoreactivity of the molecular chaperone ClpB from the bacterium *Leptospira interrogans*, the causative agent of Leptospira. 1st Congress of the Polish Biochemistry, Cell Biology, Biophysics and Bioinformatics, Sep 9-12, Warsaw, Poland.

Nally J.E., Arent Z., Palmer M.V., Gilmore C., McDevitt A., Regan S., Yearsley J., McMahon B.J. (2014). Characterization of a novel isolate of a novel isolate of *Leptospira* associated with the greater white-toothed shrew (*Crocidura russula*), an invasive mammalian species in Ireland. CRWAD, Dec 7-9, Marriott, Chicago, Illinois, USA.

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 1

Ellis W.A. 2014. Animal leptospirosis. In: Adler B. (Ed) *Leptospira and Leptospirosis*. Springer, Heidelberg

Arent Z. 2014. *Leptospira and animal leptospirosis seminar*. 28-29 May 2014, University of Gdansk, 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?

Yes

- a) Technical visits: 2
- b) Seminars: 1
- c) Hands-on training courses:
- d) Internships (>1 month):

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
a	India	2
a	Poland	2
b	Poland	25

**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 certified according to an International Standard?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO 9001	ISO9001_2014 cert.pdf
ISO 17025	UKAS accreditation cert color.pdf

16. Is your laboratory accredited by an international accreditation body?

No

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 2014, Chapter 1.1.3a*)

**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?

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 <sup>1</sup>	No. participating laboratories	Region(s) of participating OIE Member Countries
Microscopic Agglutination Test	103	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input checked="" type="checkbox"/> Middle East
ELISA in milk	8	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
ELISA in serum	8	<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)
Co-ordination and writing of OIE Manual of Diagnostic Tests and Vaccine for Terrestrial Animals: Chapter 2.1.9 - Leptospirosis	web	Updating and revision of the chapter

25. Additional comments regarding your report: