

OIE Reference Laboratory Reports Activities

Activities in 2015

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Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Equine piroplasmosis
Address of laboratory:	Obihiro University of Agriculture and Veterinary Medicine Nishi 2-13, Inada-cho Obihiro, Hokkaido 080-8555 JAPAN
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Website:	http://www.obihiro.ac.jp/~protozoa/index.html
Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Ikuo Igarashi, DVM, PhD
Name (including Title and Position) of OIE Reference Expert:	Prof. Ikuo Igarashi, DVM, PhD
Which of the following defines your laboratory? Check all that apply:	Academic

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			
IFAT	yes		13
cELISA	yes		13
Direct diagnostic tests			

**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
Theileria equi antigen slide	IFAT	produce/provided	200	200	1	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Babesia caballi antigen slide	IFAT	produced/provided	200	200	1	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input 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
UNITED KINGDOM	January 9		1
UNITED KINGDOM	February 3		3
UNITED KINGDOM	February 25		3
UNITED KINGDOM	April 7		1
UNITED KINGDOM	June 29		1
UNITED KINGDOM	October 3		1
UNITED KINGDOM	November 11		1
UNITED KINGDOM	November 20		1
NEW ZEALAND	November 27		1

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
UNITED KINGDOM	Examination of antigene city of IFAT antigens	OIE expert will examination of different antigens and positive sera with in house and provided materials.

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)
Validation of diagnostic methods	2 years	Evaluation of diagnostic tests	National Research Center on Equine
Validation of diagnostic methods	3 years	Evaluation of IFAT	Canadian Food Inspection Agency

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: 2

1. Rizk MA, El-Sayed SA, Terkawi MA, Youssef MA, El Said el Sel S, Elsayed G, El-Khodery S, El-Ashker M, Elsify A, Omar M, Salama A, Yokoyama N, Igarashi I. 2015. Optimization of a fluorescence-based assay for large-scale drug screening against Babesia and Theileria parasites. PLoS One. 10(4):e0125276.

2. Omar MA, Salama A, Elsify A, Rizk MA, Al-Aboody MS, AbouLiala M, El-Sayed SA, Igarashi I. 2015. Evaluation of in vitro inhibitory effect of enoxacin on Babesia and Theileria parasites. Exp Parasitol. 161:62-67.

b) International conferences: 2

1. Ikuo Igarashi et al. Growth inhibitory effects of clofazimine on Babesia and Theileria. 25th International Conference of the World Association for the Advancement of Veterinary Parasitology, August 16-20, Liverpool, United Kingdom.

2. 1. Ikuo Igarashi. The diagnostic methods for babesiosis. Balai Veteriner Subang, Indonesia. December 15, 2015.

c) National conferences: 4

1. Mohamed Rizk, El-Sayed Shima Abd El-Salam, Naoaki Yokoyama and Ikuo Igarashi. Discovering the potent inhibitors against Babesia and Theileria parasites by repurposing the Open malaria box. The 158th Annual Meeting of Veterinary Science, Towada, Japan, September 7-9, 2015.

2. Bumduuren Tuvshintulga, Sivakumar Thillaiampalam, Naoaki Yokoyama and Ikuo Igarashi. Growth inhibitory effects of clofazimine on Babesia and Theileria parasites. The 84th Annual Meeting of Parasitology, Tokyo, Japan, March 21-22, 2015.

3. Ikuo Igarashi, Mohamed Abdo Rizk, Abd El-Salam El-Sayed, Naoaki Yokoyama. Discovery of the potent inhibitors against Babesia and Theileria parasites by repurposing the Open Malaria Box. The 56th Annual Meeting for Japanese Society of Tropical Medicine, Osaka, Japan, December 4-6, 2015.

4. Ikuo Igarashi, Mohamed Abdo Rizk, Abd El-Salam El-Sayed, Naoaki Yokoyama. Discovery of the potent inhibitors against Babesia and Theileria parasites by repurposing the Open Malaria Box. The 56th Annual Meeting for Japanese Society of Tropical Medicine, Osaka, Japan, December 4-6, 2015.

d) Other:
(Provide website address or link to appropriate information) 0

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 certified according to an International Standard?

No

Explain Quality Management System in adoption process or currently in place
Application for ISO17025 is currently in progress.

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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
FAO-APHCA/OIE Regional Workshop on Prevention and Control of Neglected Zoonoses,	7/2015	Obihiro, Japan	participant	

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?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/participant)	No. participants	Participating OIE Ref. Labs/organising OIE Ref. Lab.
Validation IFAT antigen slides	organiser	4	Canadian Food Inspection Agency

¹ validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

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
Evaluation of IFAT antigen slide	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

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: