OIE Reference Laboratory Reports Activities

Activities in 2016

This report has been submitted : 2016-12-29 07:09:18

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Chronic wasting disease
Address of laboratory:	177 Hyeoksin 8-ro, Gimcheon-si Gyeongsangbukdo, 39660 KOREA (REP. OF)
Tel.:	+82-54 912.0862
Fax:	+82-54 912.0884
E-mail address:	shonhj@korea.kr
Website:	http://www.qia.go.kr
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Bong-kyun Park Commissioner of Animal and Plant Quarantine Agency(QIA)
Name (including Title and Position) of OIE Reference Expert:	Hyun-Joo Sohn
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
Genotyping		50	
Direct diagnostic tests		Nationally	Internationally
ELISA		12670	
Western blotting		419	
Immunohistochemistry		419	

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?

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
VIETNAM	Discussion of PrP immunostained method for TSE	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?

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?

Yes

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

No

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
Hyo-Jin Kim+, In Soon Roh+, Min-Jeong Kim, Dong-Seob Tark, Tae-Young Suh, Hoo-Chang Park, Kyung-Je Park, Hae-Eun Kang and Hyun-Joo Sohn Differentially expressed genes in the brain of TgElk mice with chronic wasting disease 2016 J Prev. Vet. Med. 40(3)

b) International conferences: 9
1. In Soon Roh, Hyo Jin Kim, Tae Young Suh, Hyun Joo Sohn, Hae Eun Kang Monitoring for chronic wasting disease in Korea water deer in Republic of Korea Berlin 27-31 Aug EWDA 2016
2. In Soon Roh, Hyo Jin Kim, Tae Young Suh, Hyun Joo Sohn, Hae Eun Kang Amino acid polymorphisms of PRNP in Korean water deer(Hydropotes inermis argyropus) Berlin 27-31 Aug EWDA 2016
3.Tae-Young Suh, In Soon Roh, Hyo Jin Kim, Hyun Joo Sohn, Hae Eun Kang Potential Transmission of chronic wasting disease to Korean water deer using in vitro amplification Berlin 27-31 Aug EWDA 2016
4.Hyun Joo Sohn, In Soon Roh, Hyo Jin Kim, Tae Young Suh, Kyung Je Park, Hoo Chang Park, Byounghan Kim Epidemiology of Chronic wasting disease in Korea Prion 2016
5. Kyung Je Park, Hyun Joo Sohn, In Soon Roh, Hyo Jin Kim, Hoo Chang Park, Byounghan Kim Infection and detection of PrPCWD in soil from CWD infected farm in Korea Prion 2016
6. Hyo-Jin Kim, Won Yong Lee, Kyung Je Park, In soon Roh, Tae Young Suh, Hoo Chang Park, Byounghabn Kim, Hyun Joo Sohn Zinnia elegans combined PrPBSE complex increases the survival time of VM mice Prion 2016
7. Hyo-Jin Kim, Hyun Jeong Kim, In Soon Roh, Won Young Lee, Tae Young Suh, Hoo Chang Park, Kyung je Park, Byounghan Kim, Hyun Joo Sohn Gene expression profiling analysis of Rubus coreanus Miquel-cured prion-infected MDBK cell line Prion 2016
8. Hyun Joo Sohn, Kyung Je Park, In Soon Roh, Hyo Jin Kim, Byounghan Kim RT-QUIC detection infected cervid and TgElk mice tissues Prion 2016
9.Gordon Mitchell, Hyun Joo Sohn, Yoon Hee Lee, Antas Staskevicius, NishandanYogasingam, Ines Walther, In Soo Cho, Aru Balachandran Experimental oral transmission of chronic wasting disease to sika deer(Cervus nippon) Prion 2016

c) National conferences: 4
1. In-Soon Roh, Hyo-Jin Kim, Tae-Young Suh, Hae-Eun Kang, Hyun-Joo Sohn Outbreak of Chronic Wasting Disease in captive deer, 2016 KSVS 2016. 56(3) : 281
2. Kyung Je Park, In Soon Roh, Hyo Jin Kim, Hoo Chang Park, Hae-Eun Kang, Hyun Joo Sohn Detection of PrPCWD in soil from CWD infected farm in Korea KSVS 2016. 56(3) : 316
3. Tae-Young Suh, Hyo-Jin Kim, In Soon Roh, Hae-eun Kang, Hyun-Joo Sohn and Daeyong Kim Comparison of Biochemical Characteristics of PrPSc from Persistent BSE Infected Cell and BSE Infected Cattle Brain Using Transgenic Mice Overexpressing Bovine PRNP Gene KSVS. 2016. 56(3) : 263
4. Hyo-Jin Kim, Won-Yong Lee, In Soon Roh, Tae-Young Suh,Jiwon Choi, Kyoung Tai No, Hae-Eun Kang, Hyun-Joo Sohn Anti-prion activity of (E)-3,4-dihydroxystyryl2,3,4-trihydroxybutanoate against BSE-associated prion protein J Vet Sci. 2016. 56(3) : 270

d) Other:
(Provide website address or link to appropriate information) 1
http://www.qia.go.kr/english/html/Animal_livestock/02AnimalLivestock_OIE07.jsp

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: 1
b) Seminars: 1
c) Hands-on training courses: 1
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	USA	1
b	Japan	30
c	Bangladesh	1
c	Fiji	2
c	Laos	3
c	Srilanka	3

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/IEC 17025	20141231_KT372_Animal and Plant Quarantine Agency_Eng.pdf

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

Yes

Test for which your laboratory is accredited	Accreditation body
Western blot	KOLAS-Korea Laboratory Accrediation Scheme
Rapid test	KOLAS-Korea Laboratory Accrediation Scheme

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?

Yes

National/ International	Title of event	Co-organiser	Date (mm/yy)	Location	No. Participants
International	Animal prion disease workshop	Takashi Yokoyama, Takashi Onodera	05/10	Japan	50

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
Animal prion disease workshop	05/10	Japan	speaker	Epidemiology of CWD in Korea

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 of a diagnostic protocol	participant	9	APHA

[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?

Not applicable (Only OIE Reference Lab. designated for disease)

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
National proficiency test of TSE rapid test	19(regional veterinary service lab)	☐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?

No

25. Additional comments regarding your report: