OIE Reference Laboratory Reports Activities

Activities in 2018

This report has been submitted : 2019-01-16 03:53:34

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Infectious bursal disease (Gumboro disease)
Address of laboratory:	Division of Avian Immunosuppressive Disease Harbin Veterinary Research Institute (HVRI) Chinese Academy of Agricultural Sciences (CAAS) 678 Haping Road Xiangfang District Harbin 150069 CHINA (PEOPLES REP. OF)
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Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Zhigao Bu, the director of HVRI, CAAS
Name (including Title and Position) of OIE Reference Expert:	Dr. Xiaomei Wang, Head of State key laboratory of veterinary biotechnology of China, Head of OIE Reference Laboratory for IBD
Which of the following defines your laboratory? Check all that apply:	Research 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	
Indirect diagnostic tests		Nationally	Internationally
ELISA Ab detection	Yes	2024	0
Direct diagnostic tests		Nationally	Internationally
Partial amplification of IBDV genome (RT-PCR for VP2 or VP1)	Yes	271	92
virus isolation or titration in eggs	Yes	4	6
Preparation of virus stocks from infected bursae	Yes	4	6
Virus gene sequencing of VP2 or VP1	No	50	67
Complete virus genome sequencing	No	6	6

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?

Yes

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

Yes

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
AGID kit for IBD detection	It can be used to detect Ab or Ag of IBDV. We are applying for the certification from the Ministry of Agriculture of China.
The Recombinant live Vaccine of IBDV	It was developed by reverse genetics technique. We are applying for the permission of the clinical trail in China.
The recombinant MDV vaccine expressed VP2 of IBDV	We are applying for the GMO safety certificates.

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
PAKISTAN	03/2018	0	44

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

No

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
the National Key Research and Development Program of China□Study on avian major infectious diseases prevention and control and the development of international scientific and technological cooperation platform	3 years	see title	University of Veterinary and Animal Sciences, Lahore	PAKISTAN
the National Key Research and Development Program of China□Study on avian major infectious diseases prevention and control and the development of international scientific and technological cooperation platform	3 years	see title	University of Udayana	INDONESIA
Epidemiology of IBDV in Pakistan (PhD thesis)	3 years	see title	University of Veterinary and Animal Sciences, Lahore	PAKISTAN

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

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: 1
Li Gao, Kai Li, Xiaole Qi, Yulong Gao, Yongqiang Wang, Honglei Gao, Xiaomei Wang. N-terminal domain of the RNA polymerase of very virulent infectious bursal disease virus contributes to viral replication and virulence. SCIENCE CHINA-Life Sciences. 2018 Sep;61(9):1127-1129.

b) International conferences: 6
Oral communication by Xiaomei Wang and Yulong Gao. Global Alliance for Research on Avian Diseases (GARAD) Conference \ Hanoi, Vietnam \ 2018.1.17-19.
"Epidemiological characteristics and prevention technology researches of Infectious Bursal Disease (IBD)" by Xiaole Qi. Keynote presentation. EMERGING AND RE-EMERGING
VIRAL DISEASES International Collaboration for Control \ Hurghada, Egypt \ 2018.11.27-30.
"Studies on the prevention and control of Infectious Bursal Disease (IBD)" by Xiaole Qi. Keynote presentation.Poultry Science Conference in Pakistan \ Lahore, Pakistan \ 2018.9.27-29.
"Studies on the prevention and control of Infectious Bursal Disease (IBD)" by Xiaole Qi. Keynote presentation.International seminar of infectious bursal disease and avian influenza \ Lahore, Pkistan \ 2018.9.26.
"Studies on the prevention and control of Infectious Bursal Disease (IBD)" by Xiaole Qi. Keynote presentation.Seminar on Poultry Disease Diagnosis and Prevention \Faisalabad, Pkistan \ 2018.10.1.
"Prevention and Control Technology for Avian Immunosuppressive Disease in China" by Yulong Gao. Keynote presentation. Avian disease synthetical prevention and its quality control training course \ Harbin, China\2018.1.8.

c) National conferences: 3
“Avian immunosuppressive disease epidemic and prevention technology” by Xiaomei Wang. Keynote presentation. 2018 annual conference of Chinese society of animal husbandry and veterinary medicine \ Nanning, China \ 2018.11.22-25.
“Epidemic status and comprehensive prevention and control of avian immunosuppressive disease in China” by Yulong Gao. Keynote presentation. Animal disease clean technology promotion training \ Taian, China \ 2018.7.17-19.
“Novel reverse genetics vaccine of Infectious Bursal Disease (IBD)" by Xiaole Qi. Oral presentation. The 7th China veterinary drug congress \ Wuhan, China \ 2018.9.15.

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?

Yes

a) Technical visits: 0
b) Seminars: 0
c) Hands-on training courses: 0
d) Internships (>1 month): 5

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
d	Pakistan	5

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)
CNAS	CNAS.jpg

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, 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?

No

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

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: