World Organisation for Animal Health

Hualan Chen - - CHINA_(PEOPLE'S_REP_OF)

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 28 janvier 2025 17:24

LABORATORY INFORMATION

***Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:**	Avian influenza
***Address of laboratory:**	678 Haping Road, Harbin, 150069,CHINA (PEOPLES REP. OF); 427 Maduan Street, Harbin, 150001,CHINA (PEOPLES REP. OF)
***Tel:**	+86-451 51997168
***E-mail address:**	chenhualan@caas.cn
Website:	www.hvri.ac.cn
***Name (including Title) of Head of Laboratory (Responsible Official):**	Hualan Chen (Professor, Director)
***Name (including Title and Position) of WOAH Reference Expert:**	Hualan Chen (Professor)
***Which of the following defines your laboratory? Check all that apply:**	Academic institution

TOR1: DIAGNOSTIC METHODS

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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Hemagglutinin inhibition(H5)	Yes	7040	0
Hemagglutinin inhibition(H7)	Yes	7040	0
Hemagglutinin inhibition(H9)	Yes	7040	0
Hemagglutinin inhibition(H1)	Yes	1800	0

Hemagglutinin inhibition(H3)	Yes	1800	0
Chicken embros	Yes	73664	0
Direct diagnostic tests		Nationally	Internationally
RT-PCR	Yes	3000	0

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOAH Member Countries	Country of recipients
AI type antigen(H5)	HI serological test	produced	13668ml	860ml	2	CHINA (PEOPLE'S REP. OF), EGYPT,
AI type antiserum(H5)	HI serological test	produced	5076ml	300ml	2	CHINA (PEOPLE'S REP. OF), EGYPT,
AI type antigen(H7)	HI serological test	produced	8088ml	0	1	CHINA (PEOPLE'S REP. OF),
AI type antiserum(H7)	HI serological test	produced	2360ml	0	1	CHINA (PEOPLE'S REP. OF),
AI type antigen(H9)	HI serological test	produced	2282ml	260ml	2	CHINA (PEOPLE'S REP. OF), EGYPT,
AI type antiserum(H9)	HI serological test	produced	704ml	130ml	2	CHINA (PEOPLE'S REP. OF), EGYPT,

4. Did your laboratory produce vaccines?

Yes

5. Did your laboratory supply vaccines to WOAH Members?

Yes

Vaccine name	Amount supplied nationally (ml, mg)	Amount supplied nationally (ml, mg)	Name of recipient WOAH Members
Inactivated Avian Influenza Virus Vaccine(H5+H7)	236,217,000ml	0	CHINA (PEOPLE'S REP. OF) HONG KONG
Inactivated Avian Influenza Virus Vaccine(H5)	0	20,250,000ml	EGYPT IRAN
Inactivated Avian Influenza Virus Vaccine(H5+H9)	0	10,000,000	EGYPT SINGAPORE
Avian Influenza (H5) and Newcastle Disease Bivalent Inactivated Vaccine	0	31,827,500	EGYPT

Avian Influenza (H5+H9) and Newcastle Disease Bivalent Inactivated Vaccine	0	34,117,000	EGYPT

TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?

No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

Yes

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?

Yes

Name of the new vaccine developed	Description and References (Publication, website, etc)
Recombinant duck enteritis virus-vectored vaccine against avian influenza(H5)	http://www.moa.gov.cn/govpublic/xmsyj/202403/t20240326_6452449.htm

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAH Members?

No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?

Yes

Name of the WOAH Member Country receiving a technical consultancy	Purpose	How the advice was provided
EGYPT	To Introduce a novel inactivated bivalent vaccine for avian influenza and Newcastle disease specifically designed for Egypt	Conference communication

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAH Member Countries involved other than your country
Research on Emerging infectious diseases	2020-2025	The genetic basis of the host range and virulence of influenza viruses	Division of Virology, Department of Microbiology and Immunology; Institute of Medical Science,	JAPAN

			University ofTokyo,Japan	

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH?

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:
H5N1 virus: During October 2020, 13 highly pathogenic avian influenza A(H5N8) were identified clade 2.3.4.4b viruses from wild ducks in Ningxia, China(Xu Q, et al, JIA, 2024). H7N9 virus: 16 H7N9 viruses were isolated from samples collected during surveillance and samples that were sent to us for disease diagnosis between January 2020 and June 2023(Hou., et al, EMI, 2024). H4N6 virus: During the active surveillance, nine H4N6 subtype influenza A viruses were isolated from wild birds in China(Song X, et al, EMI, 2024).

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:
1. Hou Y, et al. 2024. Evolution of H7N9 highly pathogenic avian influenza virus in the context of vaccination. Emerg Microbes Infect 13:2343912. 2. Song X, et al. 2024. Epidemiology and biological characteristics of influenza A (H4N6) viruses from wild birds. Emerg Microbes Infect 13:2418909 3. Xu Q, et al. 2024. Emergence of highly pathogenic avian influenza A (H5N8) clade 2.3.4.4b viruses in grebes in Inner Mongolia and Ningxia, China, in 2021. Journal of Integrative Agriculture 23:348-353.

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

17

1.Cui P, et al. 2024. Does pasteurization inactivate bird flu virus in milk? Emerg Microbes Infect 13:2364732.

2.Hou Y, et al. 2024. Evolution of H7N9 highly pathogenic avian influenza virus in the context of vaccination. Emerg Microbes Infect 13:2343912.

3.Li M, et al. 2024. Spatiotemporal and Species-Crossing Transmission Dynamics of Subclade 2.3.4.4b H5Nx HPAIVs. Transboundary and Emerging Diseases 2024.

4.Li Q, et al. 2024. HACD3 Prevents PB1 from Autophagic Degradation to Facilitate the Replication of Influenza A Virus. Viruses 16.

5.Li X, et al. 2024. A sequence-based machine learning model for predicting antigenic distance for H3N2 influenza virus. Front Microbiol 15:1345794.

6.Liu L, et al. 2024. The V223I substitution in hemagglutinin reduces the binding affinity to human-type receptors while enhancing the thermal stability of the H3N2 canine influenza virus. Front Microbiol 15:1442163.
7.Liu T, et al. 2024. The M2 Protein of the Influenza A Virus Interacts with PEX19 to Facilitate Virus Replication by Disrupting the Function of Peroxisome. Viruses 16.
8.Liu Y, et al. 2024. Inactivated H9N2 vaccines developed with early strains do not protect against recent H9N2 viruses: Call for a change in H9N2 control policy. Journal of Integrative Agriculture 23:2144-2148.
9.Ni Z, et al. 2024. Influenza virus uses mGluR2 as an endocytic receptor to enter cells. Nat Microbiol doi:10.1038/s41564-024-01713-x.
10.Song X, et al. 2024. Epidemiology and biological characteristics of influenza A (H4N6) viruses from wild birds. Emerg Microbes Infect 13:2418909.
11.Song X, et al. 2024. Genetics and Pathogenicity of Influenza A (H4N6) Virus Isolated from Wild Birds in Jiangsu Province, China, 2023. Transboundary and Emerging Diseases 2024.
12.Wang S, et al. 2024. Expression and characterization of recombinant antibodies against H7 subtype avian influenza virus and their diagnostic potential. Front Microbiol 15:1459402.
13.Xu Q,et al. 2024. Emergence of highly pathogenic avian influenza A (H5N8) clade 2.3.4.4b viruses in grebes in Inner Mongolia and Ningxia, China, in 2021. Journal of Integrative Agriculture 23:348-353.
14.Yang Y, et al. 2024. Two amino acid residues in the N-terminal region of the polymerase acidic protein determine the virulence of Eurasian avian-like H1N1 swine influenza viruses in mice. J Virol 98:e0129324.
15.Zeng X, et al. 2024. Control of highly pathogenic avian influenza through vaccination. Journal of Integrative Agriculture.
16.Zhang Y, et al. 2024. A broad-spectrum vaccine candidate against H5 viruses bearing different sub-clade 2.3.4.4 HA genes. NPJ Vaccines 9:152.
17.Zhou X, et al. 2024. On-Site and Visual Detection of the H5 Subtype Avian Influenza Virus Based on RT-RPA and CRISPR/Cas12a. Viruses 16.

b) International conferences:

12
1.Chen Hualan gave a presentation on "Control of highly pathogenic avian influenza through vaccination" at the 5th International Symposium on Neglected Influenza Viruses, held held in Lexington, USA from Apr. 6 to Apr.15, 2024.
2.Hualan Chen gave a presentation on "Control of highly pathogenic avian influenza through vaccination" at the World Influenza Conference:Integrated Prevention and Control from Influenza to Respiratory Infectious Diseases, held in Boao, China, from July 5 to July 7, 2024.
3.Hualan Chen gave a presentation on "Activity updates on highly pathogenic avian influenza in China" at the WOAH Regional Workshop on Avian Disease Prevention and Control in Asia and the Pacific 2024, held in Seoul, South Korea, from Aug.26 to Aug. 29, 2024.
4.Hualan Chen gave a presentation on "Vaccination against HPAI - the decision and the impact" at The first-ever Global Conference on Animal Health Innovation, Reference Centres, and Vaccines (RCVI), held in Roma, Italy from Sep.22 to Sep. 26,2024.
5.Hualan Chen gave a presentation on "Update on avian influenza research and control activities in China" in the 30th Annual Meeting of the National Reference Laboratories for Avian Influenza and Newcastle Disease of uropean Union Member States from Oct. 10 to Oct. 11, 2024.
6.Hualan Chen gave a presentation on "Control of highly pathogenic avian influenza through vaccination" in the 23rd Federation of Asian Veterinary Associations Congress (FAVA 2024), held in Daejeon, South Korea from Oct.24 to Oct.28, 2024.
7.Hualan Chen gave a presentation on "Mysteries of influenza virus infection and pathogenicity" in the World Flu Day 2024 Symposium / 9th Japan-China Bilateral Symposium on All Influenza Viruses (WFD-CJS2024), held in Tokyo, Japan form Oct. 31 to Nov. 2, 2024.
8.Hualan Chen gave a presentation on "Identification of the key receptor for influenza virus entry into cells" in the joint ""UK-China Partnership and Flu-Trail Map Project Workshop"" on Avian Influenza Control Strategies, held in London, UK from Nov.10 to Nov. 13, 2024.
9.Hualan Chen gave a presentation on "Strain surveillance is important for a successful vaccination strategy" in the meeting on Vaccination and Surveillance for HPAI in Poultry: Current Situation and Perspectives, held in Paris, France from Oct.22 to Oct. 23, 2024
10.Hualan Chen gave a presentation on "Genomic Epidemiology of Highly Pathogenic H5 Viruses in China" in the Regional Technical Consultation on Reassortant Avian Influenza in Southeast Asia, held in Bangkok, Thailand on July 23, 2024.

11.Xianying Zeng gave a presentation on "Successful control of H5/H7 avian influenza in China and the vaccine update for Egypt" in the Workshop on Prevention and Control Technologies for new-Emerging and re-Emerging Significant Infectious Animal Diseases, held in Cario, Egypt from Nov. 4 to Nov. 6, 2024.
12.Yanbing Li gave a presentation on "Public safety threats of the currently circulating 2.3.4.4b branch of H5N1 subtype HPAIV" at the 1st International Forum on Challenges of and Responses to Zoonoses, held in Taigu, Shanxi, China from Oct. 29 to Oct. 31, 2024.

c) National conferences:

18
1.Hualan Chen gave a presentation on "Monitoring and Prevention of Highly Pathogenic Avian Influenza" at the 2024 Animal Influenza Monitoring and Prevention Situation Exchange Training Conference held in Ningxia, China on July 31, 2024.
2.Hualan Chen presented a report on "Epidemic and Prevention Progress of Highly Pathogenic Avian Influenza" at the 2024 Youth Workers Conference of the Veterinary Public Health Branch of the Chinese Society of Animal Husbandry and Veterinary Medicine, along with training on strategies and techniques for the prevention and control of zoonotic tuberculosis, held in Lanzhou from August 2 to August 5, 2024.
3.Hualan Chen gave a presentation on "Epidemic and Prevention Progress of Highly Pathogenic Avian Influenza" at the 16th Academic Exchange Conference of the Biotechnology Branch of the Chinese Society of Animal Husbandry and Veterinary Medicine and the Veterinary Immunology Branch of the Chinese Society for Immunology, held in Harbin from August 7 to August 9, 2024.
4.Hualan Chen presented a report on "Epidemic and Prevention Progress of Highly Pathogenic Avian Influenza" at the first BSC-PC Symposia - Pathogen and Vaccine Pharmacology Academic Seminar held in Chengdu from September 6 to September 7, 2024.
5.Hualan Chen gave a presentation on "Research and Application Effectiveness of Avian Influenza Vaccines" at the Engineering Technology Academic Seminar of the Chinese Academy of Engineering - Conference on Important Zoonotic Diseases and Their Vaccine Research and Development held in Zhengzhou from October 10 to October 11, 2024.
6.Hualan Chen presented a report on "Current Situation of Highly Pathogenic Avian Influenza in Waterfowl and Blocking Technologies" at the 21st Academic Seminar of the Poultry Diseases Branch of the Chinese Society of Animal Husbandry and Veterinary Medicine held in Chengdu from October 11 to October 12, 2024.
7.Guobin Tian gave a presentation titled "Current Situation of Avian Influenza Epidemic and Comprehensive Prevention and Control Measures" at the 2024 Shandong Poultry Industry Development Summit Forum held on September 24, 2024.
8.Guobin Tian gave a presentation titled "Avian Influenza Epidemic, Diagnosis, and Comprehensive Prevention and Control Measures" at the Shanghai 2024 Veterinary Laboratory Personnel Training Course held on September 10, 2024.
9.Guobin Tian gave a presentation titled "Prevention and Control of Major Infectious Diseases in Broilers" at the 2024 National Science and Technology Special Envoy Team's training session on poultry disease prevention and control held on June 4, 2024.
10.Guobin Tian gave a presentation titled "Dynamics and Prevention of Highly Pathogenic Avian Influenza" at the Spring 2024 Major Animal Epidemic and Zoonotic Disease Prevention and Control Work Conference held in Heilun City on April 8, 2024.
11.Guobin Tian gave a presentation titled "Current Situation of Avian Influenza Epidemic and Immunization Prevention and Control" at the 2024 National Major Animal Epidemic Immunization Technology Training Course held online on March 13, 2024.
12.Xiurong Wang gave a presentation titled "Rapid Diagnosis Technology for Avian Influenza" at the 2024 Hainan Province Veterinary Laboratory Diagnosis and Biosafety Training held on April 16, 2024.
13.Yongping Jiang gave a presentation titled "Development of Avian Influenza DNA Vaccine" at the 2024 Animal Influenza Monitoring and Prevention Situation Exchange Training Conference held on August 1, 2024.
14.Jianzhong Shi gave a presentation titled "Monitoring and Prevention of H7N9 Subtype Avian Influenza Virus" at the 2023-2024 National Influenza Monitoring and Prevention Work Annual Conference held by the Chinese Center for Disease Control and Prevention on September 9, 2024.
15.Guohua Deng gave a presentation titled "Monitoring and Evolutionary Analysis of Avian Influenza Virus" at the 2024 Shanghai Animal Epidemic Purification and Regional Management Work Conference and Animal Epidemic Prevention Training Course held on September 19, 2024.
16.Guohua Deng gave a presentation titled "Research on Monitoring and Prevention of Avian Influenza Virus" at the 2024 Major Animal Epidemic Prevention Technology Training Course held in Chongqing on April 17, 2024.

17.Guohua Deng gave a presentation titled "Research on Monitoring and Prevention of Avian Influenza Virus" at the 2024 Animal Influenza Monitoring and Prevention Situation Training Course held in Ningxia on July 31, 2024.
18.Guohua Deng gave a presentation titled "Research on Monitoring and Prevention of Avian Influenza Virus" at the 2024 Provincial Animal Epidemic Monitoring and Investigation Training Course held in Hunan Province on April 1, 2024.

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

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?

Yes

a) Technical visit : 0

b) Seminars : 113

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	EGYPT	113

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ILAC-CNAS-ISO 17025	JPG	ILAC-CNAS-17025(2023-2029).jpg

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Isolation of influenza virus	ILAC
RT-PCR	ILAC
Haemagglutination inhibition test(HI)	ILAC
Neutralization assay	ILAC

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

Yes

Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
National	2024 Animal Influenza Monitoring and Prevention Situation Exchange Training Conference	Ningxia Animal Disease Prevention and Control Center	2024-07-30	Yinchuan, Ningxia, China	100

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
2023 NAPRRS/NC229: International Conference of Swine ViralDiseases	2024-11-02	Chicago, USA	SPEAKER	Evolution and Pandemic Potential of the EurasianAvian-like H1N1 Swine Influenza Viruses
5th International Symposium on Neglected Influenza Viruses	2024-04-07	Lexington, USA	SPEAKER	Control of highly pathogenic avian influenza through vaccination
World Influenza Conference:Integrated Prevention and Control from Influenza to Respiratory Infectious Diseases	2024-07-05	Boao, China	SPEAKER	Control of highly pathogenic avian influenza through vaccination
WOAH Regional Workshop on Avian Disease Prevention and Control in Asia and the Pacific 2024	2024-09-26	Seoul, South Korea	SPEAKER	Activity updates on highly pathogenic avian influenza in China
The first-ever Global Conference on Animal Health Innovation, Reference Centres, and Vaccines (RCVI)	2024-09-23	Roma, Italy	SPEAKER	Vaccination against HPAI - the decision and the impact
National Reference Laboratories for Avian Influenza and Newcastle Disease of uropean Union Member States	2024-10-09	Online	SPEAKER	Update on avian influenza research and control activities in China

the 23rd Federation of Asian Veterinary Associations Congress (FAVA 2024)	2024-10-26	Daejeon, South Korea	SPEAKER	Control of highly pathogenic avian influenza through vaccination
the World Flu Day 2024 Symposium / 9th Japan-China Bilateral Symposium on All Influenza Viruses (WFD-CJS2024)	2024-10-31	Tokyo, Japan	SPEAKER	Mysteries of influenza virus infection and pathogenicity
the joint ""UK-China Partnership and Flu-Trail Map Project Workshop"" on Avian Influenza Control Strategies	2024-11-11	London, UK	SPEAKER	Identification of the key receptor for influenza virus entry into cells
Vaccination and Surveillance for HPAI in Poultry: Current Situation and Perspectives	2024-10-22	Paris, France	SPEAKER	Strain surveillance is important for a successful vaccination strategy
Regional Technical Consultation on Reassortant Avian Influenza in Southeast Asia	2024-07-22	Bangkok, Thailand	SPEAKER	Genomic Epidemiology of Highly Pathogenic H5 Viruses in China
Workshop on Prevention and Control Technologies for new-Emerging and re-Emerging Significant Infectious Animal Diseases	2024-11-04	Cario, Egypt	SPEAKER	Successful control of H5/H7 avian influenza in China and the vaccine update for Egypt
1st International Forum on Challenges of and Responses to Zoonoses	2024-10-29	Taigu, Shanxi	SPEAKER	Public safety threats of the currently circulating 2.3.4.4b branch of H5N1 subtype HPAIV
2024 Animal Influenza Monitoring and Prevention Situation Exchange Training Conference	2024-07-30	Ningxia, China	SPEAKER	Monitoring and Prevention of Highly Pathogenic Avian Influenza

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAH REF. LABS
			ACDP (Australia), ANSES (France), AHRI (Egypt), APHA

OFFLU network	participant	19	(UK), APQA (Rep. Korea), ARRIAH, (Russia), CFIAN (Canada), FLI (Germany), HVRI (China), ICAR (India), IZSVe and IZSVL (Italy), Ghent University (Belgium), NIAH (Japan), NVL (Viet Nam), Institut Pasteur (Cambodia), SSI(Denmark), USDA-APHIS NVSL and USDAARS NADC (USA), RVC (UK), WUR(Netherlands)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen during the past 2 years?

Yes

Purpose of the proficiency test:	Role of your Reference Laboratory (organiser/ participant)	No. participating Laboratories	Participating WOAH Ref. Labs/ organising WOAH Ref Lab
To test and document the ability of OFFLU member laboratories to detect and characterize notifiable avian influenza (NAI) and other relevant avian influenza viruses with the aim of improving accurate global detection and haracterization of influenza in birds.	PARTICIPANT	11	Australian Centre for Disease Preparedness CSIRO

26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAH Member Countries
To evaluate the aboratory proficiency in Animal Disease Prevention and Control Center of different provinces in China	PARTICIPANT	30	HA and HI test	CHINA (PEOPLE'S REP. OF),

TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOAH?

Yes

Kind of consultancy	Location	Subject (facultative)
Member of OFFLU STEERING AND EXECUTIVE COMMITTEE MEETING	Online	update on OFFLU committees

29. Additional comments regarding your report:

No