

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-10 07:57:38

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Newcastle disease
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Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Zhiliang Wang Deputy Director General of China Animal Health and Epidemiology Center
Name (including Title and Position) of OIE Reference Expert:	Dr. Zhiliang Wang Deputy Director General of China Animal Health and Epidemiology Center
Which of the following defines your laboratory? Check all that apply:	Governmental Research

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
HI	Yes	1050	0
Direct diagnostic tests		Nationally	Internationally
Virus isolation (SPF eggs)	Yes	11703	0
RT-PCR	Yes	11703	0
ICPI	Yes	7	0
Real-time RT-PCR	Yes	246	0
NDV genetic analysis by sequencing	Yes	351	

**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
Antigen	Realtime RT-PCR	Provide	24	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" 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?

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.)
Digital RT-PCR for genotype VI NDV	Detection and quantitation of genotype VI NDV
Digital RT-PCR for genotype VII NDV	Detection and quantitation of genotype VII NDV
Genotype-matched vaccine for pigeon NDV (Genotype VI)	Genotype-matched vaccine for sub-genotype VI using reverse genetics
Genotype-matched vaccine for NDV (Genotype VII.2)	Genotype-matched vaccine for sub-genotype VII.2 using reverse genetics

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
NEPAL	Consultation on master seed for vaccine production	Email

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

If the answer is yes, please provide details of the data collected:
The current situation of Newcastle disease in China

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

Yes

If the answer is yes, please provide details of the data collected:
The current situation of Newcastle disease in China

**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: 4

1. The 3rd OIE Regional Meeting of OIE Reference Centres(RCs) in Asia and the Pacific, September 29-30, 2021. Presentation on Newcastle Disease-Global Situation and Effective Control Strategies.
2. Regional expert network for avian diseases in Asia-Pacific, December 10, 2021. Presentation on Newcastle Disease-Global Situation and Effective Control Strategies.
3. Biregional Advocacy Meeting on Risk Mitigation in Traditional Food Markets in the Asia Pacific Region, September 1-2, 2021.
4. FAO-OIE-WHO Global Technical Meeting on MERS-CoV and Other Emerging Zoonotic Coronaviruses, November 15-16, 2021.

c) National conferences: 3

1. National Epidemiological Investigation Meeting. Qingdao, May 27-28, 2021.
2. National Training on Prevention and Control of Avian Diseases. Qingdao, September 23-25, 2021.
3. The Epidemic Analysis Meeting for Major Avian Diseases. Hefei, September 27-28, 2021.

d) Other:

(Provide website address or link to appropriate information) 1

The annual training material has been dispatched through webmail to 33 international trainees from 13 countries, which had been involved in our training programme before.

**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: 1

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	Vietnam, Burma, Thailand, Nepal, Cambodia, Lao PDR, Myanmar	34

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?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO/IEC 17025	17025-EN.jpg

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Virus isolation	China National Accreditation Service for Conformity Assessment
RT-PCR	China National Accreditation Service for Conformity Assessment
Realtime RT-PCR	China National Accreditation Service for Conformity Assessment

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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
The 3rd OIE Regional Meeting of OIE Reference Centres(RCs) in Asia and the Pacific	09/21	Webinar	Speaker	Global Situation and Effective Control Strategies on Newcastle Disease
Regional expert network for avian diseases in Asia-Pacific	12/21	Webinar	Speaker	Newcastle disease in China

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 ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Ability verification for HI test	6	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Ability verification for RT-PCR	6	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Ability verification for realtime RT-PCR	6	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input 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)
Effective control strategies on Newcastle disease	Webinar	OIE Regional Meeting of OIE Reference Centres in Asia and the Pacific
The epidemic situation of Newcastle disease in China	Webinar	Regional expert network for avian diseases in Asia-Pacific

25. Additional comments regarding your report: