

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 23 janvier 2025 07:33

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Rabies
*Address of laboratory:	Changchun Veterinary Research Institute ChineseAcademy of Agriculture Sciences, Changchun, CHINA
*Tel:	+86-431 81.03.20.22
*E-mail address:	changchun_tu@hotmail.com
Website:	
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Changchun Tu, Professor
*Name (including Title and Position) of WOA Reference Expert:	Dr. Changchun Tu, 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 WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Fluorescent antibody virus neutralisation (FAVN)	Yes	4408	0
Direct diagnostic tests		Nationally	Internationally
Fluorescent antibody test (FAT)	Yes	36	0
Reverse transcription-nest PCR			

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(RT-nPCR)	Yes	82	0
Real time TaqMan RT-PCR (FQ-PCR)	Yes	82	0
G gene Sequencing	Yes	1	0
N gene Sequencing	Yes	17	0
Genome Sequencing	Yes	0	3

TOR2: REFERENCE MATERIAL

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

No

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

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHA Members?

No

TOR3: NEW PROCEDURES

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

Yes

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

Yes

Name of the new test or diagnostic method developed	Description and References (Publication, website, etc.)
Blocking ELISA	Development and validation of a blocking ELISA for measurement of rabies virus neutralizing antibody, under review

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

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOAHA Member Country receiving a technical consultancy	Purpose	How the advice was provided

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PHILIPPINES

Strengthen genomic surveillance

Via email

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOA 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
Phylogenetic analysis of RABVs from Philippines	Ongoing	Molecular characterization of currently circulating RABVs in Philippines	Bureau of Animal Industry, Animal Disease Diagnosis and Reference Laboratory	PHILIPPINES
Natural infection of Tembusu virus (TMUV) in bottlenose dolphins in Thailand associated with fatal neurological diseases	Ongoing	This study reports the first documented natural infection of TMUV in mammals	Department of Pathology, Faculty of Veterinary Science, Chulalongkorn University,	THAILAND

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

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:

Nationally, surveillance data from surveillance programmes (suspect dogs and domestic animals) is collected. From an international perspective, RABV sequences from Asian countries were collected from Genbank and analysed.

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:

National data is reported to the Ministry of Agriculture and Rural Affairs of China.

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:

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Guo X*, Zhang M*, Feng Y*, Liu X, Wang C, Zhang Y, Wang Z, Zhang D, Guo Y. Transcriptome analysis of salivary glands of rabies-virus-infected mice. *Front Microbiol.* 2024 Feb 6;15:1354936.

b) International conferences:

0

c) National conferences:

1

Rabies conference in China, 17-18th May, Xiong'an, China.

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 WOA Members?

Yes

a) Technical visit : 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	HONG KONG	1

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17025	PDF	2024认证认可证书.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
FAT,FAVN,RT-PCR, RT-qPCR	China National Accreditation Service for Conformity Assessment (CNAS)

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

Yes

The laboratory activities are carried out according to Biosecurity Law of the People's Republic of China (2020)

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

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

Yes

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

No

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

No

No designated WOA Reference Laboratory organized a proficiency test for rabies this year.

26. Did your laboratory collaborate with other WOA 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 WOA Reference Laboratories for the same pathogen during the past 2 years?

No

No, our laboratory did not organize inter-laboratory proficiency test for rabies, as we are not a proficiency testing provider.

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No