

WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 25 avril 2023 16:37

Laboratory Information

Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Rabies
Address of laboratory:	Changchun Veterinary Research Institute, Chinese Academy of Agriculture Sciences, 573 Yujinxiang Street, Jingyue Economic Development Zone, Changchun 130122 CHINA (PEOPLE'S REP. OF)
Tel.:	+86-431-81032022
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	3334	0

Direct diagnostic tests		Nationally	Internationally
Fluorescent antibody test (FAT)	Yes	4	0
Reverse transcription-nest PCR (RT-nPCR)	Yes	73	279
Real time TaqMan RT-PCR (FQ-PCR)	Yes	73	0
G gene and N gene Sequencing	Yes	4	50
Genome Sequencing	Yes	4	279

TOR2: REFERENCE MATERIAL

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

No

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

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOA?H MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
The rabies positive microscope slides	FAT	Produced and provide		30 pieces	1	Asia and Pacific
FTA cards	Collect and transport samples	Provide		279 pieces	1	Asia and Pacific
Cell culture	Real time RT-PCR	Produced and provide		30 mL	1	Asia and Pacific

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA?H Members?

No

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 WOA?H Standards for the designated pathogen or disease?

No

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

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOA Member?

Yes

NAME OF WOA MEMBER COUNTRY SEEKING ASSISTANCE	DATE	WHICH DIAGNOSTIC TEST USED	NO. SAMPLES RECEIVED FOR PROVISION OF DIAGNOSTIC SUPPORT	NO. SAMPLES RECEIVED FOR PROVISION OF CONFIRMATORY DIAGNOSES
PHILIPPINES	2022-01-18	High-throughput sequencing	279	

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

Yes

NAME OF THE WOA MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
PHILIPPINES	Strengthen animal rabies surveillance	Via email
MYANMAR	Establish real-time PCR	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)	WOA 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

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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Y Feng, Y. Wang, Hada, Dejjide, Gaosuyilatu, X Li, Z. Xu, Hasibagen, A Bulage, L. Li, Sarula, Y Guo, J. Ma, Z. Kou, S Sun, L Zhang, T. Liu, W. Xu, H. Feng, Z. Zhao, Z. Tu, Y Liu, C. Tu. Diversity of rabies virus detected in Inner Mongolia, China, 2019–2021. *Transbound Emerg Dis*, 2022 Mar, 69(2):249-253.

b) International conferences:

c) National conferences:

1

Rabies conference in China, 2-3rd September, Suzou, China.

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

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit :

b) Seminars : 15

c) Hands-on training courses:

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
c	Cambodia	1
c	India	3
c	Indonesia	2
c	Malaysia	2
c	Mongolia	1
	Myanmar	

c		2
c	Nepal	1
c	Sri Lanka	1
c	Thailand	1
c	Philippines	1

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
CNAS (equal to ISO/IEC 17025)	Certificate.pdf	Certificate.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
CNAS (equal to ISO/IEC 17025)	China National Accreditation Service for Conformity Assessment

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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
WOAH Regional Virtual Training Workshop on Molecular Epidemiology Techniques (MET) for Rabies, 2nd round	2022-08-24	Webinar	Speakers	Introduction to molecular epidemiology techniques for rabies

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. Are you a member of a network of WOA Reference Laboratories designated for the same pathogen?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS/ ORGANISING WOAHP REF. LAB.
Inter-laboratory comparison for rabies serology (FAVN test)	Organiser	5	5 laboratories

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP Reference Laboratories designated for the same pathogen?

No

26. Did your laboratory collaborate with other WOAHP 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 WOAHP Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOAHP Member Countries
Inter-laboratory test for rabies serology (FAVN test)	Organiser	5	Asia and Pacific

TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)
Provide consultations	Beijing, China	Revise national technical specification for prevention and control of animal rabies
Provide consultations about the rabies chapters	Webinar	Compile biosafety development strategy study (2021-2035) and veterinary science and technology research progress report

29. Additional comments regarding your report:

No