

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 30 avril 2024 08:46

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Peste des petits ruminants
Address of laboratory:	No. 369 Nanjing Road, Qingdao, P.R.China
Tel.:	+86-532 85.63.91.66
E-mail address:	zlwang111@163.com
Website:	https://www.cahec.cn/
Name (including Title) of Head of Laboratory (Responsible Official):	Zhiliang Wang, Prof. , PhD. DVM
Name (including Title and Position) of WOAHO Reference Expert:	Zhiliang Wang, Prof. , PhD. DVM, Deputy Director General of China Animal Health and Epidemiology Center
Which of the following defines your laboratory? Check all that apply:	Governmental

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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
ELISA		19479	0
Direct diagnostic tests			
Real-time RT-PCR		19085	0

TOR2: REFERENCE MATERIAL

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

No

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

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOAHO MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
PPRV N -mAb	ELISA	Produced	7 ml	/	1	CHINA (PEOPLE'S REP. OF),
PPRV N antigen	ELISA	Produced	55 mg	/	1	CHINA (PEOPLE'S REP. OF),

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHO 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 WOAHO Standards for the designated pathogen or disease?

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
Rapid detection of PPR virus based on RAA-CRISPR/Cas12a	To be published

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

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

NAME OF THE WOAHO MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
CHINESE TAIPEI FRANCE HONG KONG JAPAN KENYA KOREA (REP. OF) MONGOLIA SOUTH AFRICA	Advices were given on vaccination programmes, diagnostics, surveillance strategy	Advices were given in local during the East Asia CVO/Contact Persons Meeting on PPR and LSD, Jul 24-26, 2023

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

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:

Global Distribution and Genetic Characterization of PPRV, sourced from WAHIS, EMPRES-i, Published research paper, international meetings, etc.

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:

Global Distribution and Genetic Characterization of PPRV, disseminated by MARA website, CAHEC website, Research paper, international/national meetings, Wechat official account.

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:

0

b) International conferences:

5

- [1] *East Asia CVO/Contact Persons Meeting on PPR and LSD, Jul 24-26, 2023*
 [2] *6th meeting of the Peste des Petits Ruminants Global Research and Expertise Network (PPR-GREN), Nov 28 –Nov 30, 2023*
 [3] *6th Peste des Petits Ruminants Advisory Committee (PPR AC), Dec 1 – Dec 2, 2023*
 [4] *Annual workshop of the WOAHA reference laboratory network for PPR, Dec 13, 2023*
 [5] *PPR RL Network secretary meeting(WOAH)*

c) National conferences:

3

- [1] *National conference for major animal diseases epidemiological investigation (Apr 20-21, 2023)*
 [2] *National workshop for PPR Eradication Programme (May 24, 2023)*
 [3] *National conference on prevention and control for ASF and other exotic animal diseases (Oct 25, 2023)*

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

3

- [1] <http://www.xmsyj.moa.gov.cn/yqfb/>
 [2] <https://www.cahec.cn/imgList/85.html>
 [3] *WeChat Official Account*

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

No

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	ISO 17025	ISO 17025.jpg

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PPRV RT-PCR	China National Accreditation Service for Conformity Assessment (ilac-MRA, APLAC-MRA)
PPRV qRT-PCR	China National Accreditation Service for Conformity Assessment (ilac-MRA, APLAC-MRA)
PPRV block-ELISA	China National Accreditation Service for Conformity Assessment (ilac-MRA, APLAC-MRA)
PPRV virus isolation	China National Accreditation Service for Conformity Assessment (ilac-MRA, APLAC-MRA)

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

Yes

The experiments related to PPRV are conducted in ABSL-3 laboratory(CNAS BL0008,CNAS-CL 05:2009)

TOR9: SCIENTIFIC MEETINGS

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

Yes

NATIONAL/ INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	East Asia CVO/Contact Persons Meeting on PPR and LSD	WOAH\MARA\CAHEC	2023-07-24	Qingdao, P.R.China	30

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

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
6th Peste des Petits Ruminants Advisory Committee (PPR AC)	2023-12-01	online	speaker	Update on Reference Laboratory Activities
6th meeting of the Peste des Petits Ruminants Global Research and Expertise Network (PPR-GREN)	2023-11-28	online	speaker	Update on PPR activities in China
Annual workshop of the WOA reference laboratory network for PPR	2023-12-13	online	speaker	Update on WOA PPR ref lab activities

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?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOA REF. LABS
Update on WOA PPR ref lab activities	PARTICIPANT	9	CIRAD, PIRBRIGHT

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

No

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?

Yes

TITLE OF THE PROJECT OR CONTRACT	SCOPE	NAME(S) OF RELEVANT WOA REFERENCE LABORATORIES
WOAH PPR RL network	Establishing the network and sharing scientific information on PPR diagnosis and control	CIRAD, PIRBRIGHT

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?

No

TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)

Attendance at PPR ad hoc Group work	Online	Evaluation PPR Status of 2 Members as WOAHO ad hoc Group member
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29. Additional comments regarding your report:

No