

# WOAH Reference Laboratory Reports Activities 2022

## Activities in 2022

This report has been submitted : 26 avril 2023 11:47

### Laboratory Information

<b>Name of disease (or topic) for which you are a designated WOA Reference Laboratory:</b>	Peste des petits ruminants
<b>Address of laboratory:</b>	No. 369 Nanjing Road, Qingdao, P.R.China
<b>Tel.:</b>	+8653285639166
<b>E-mail address:</b>	zlwang111@163.com
<b>Website:</b>	
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Zhiliang Wang, Prof. , PhD, DVM
<b>Name (including Title and Position) of WOA Reference Expert:</b>	Zhiliang Wang, Prof. , PhD, DVM Deputy Director General of China Animal Health and Epidemiology Center
<b>Which of the following defines your laboratory? Check all that apply:</b>	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 WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
ELISA	Yes	15000	
Direct diagnostic tests		Nationally	Internationally
Real-time RT-PCR	Yes	15000	7
RT-PCR	Yes	100	

### TOR2: REFERENCE MATERIAL

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

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA 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 MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
PPRV positive sera	ELISA	Produced/ provide	200 ml	/		Asia and Pacific
PPRV N -mAb	ELISA	Produced/ provide	500 ml	/		Asia and Pacific
PPRV N antigen	ELISA	Produced/ provide	10 mg	/		Asia and Pacific

4. Did your laboratory produce vaccines?

No

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

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
mAb based bELISA	<a href="https://www.ppr-labs-oie-network.org/materials-and-protocols/standard-operating-procedures">https://www.ppr-labs-oie-network.org/materials-and-protocols/standard-operating-procedures</a>

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

Yes

NAME OF THE NEW VACCINE DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
Bivalent vaccine against PPR and Echinococcus granulosus	Field study on the safety and efficiency of the recombinant vaccine has been underway since the strain was constructed in 2019. (Virus Res. 2019 Feb; 261:50-55.)

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

No

## TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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
	Vaccination programmes, diagnostics, surveillance strategy.	Advice were given during the meeting or status evaluation organized by WOA or FAO.

## TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

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, FAO ECTAD, Published research paper, international meetings

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 webstie,Published 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:

b) International conferences:

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[1] Fifth PPR Global Eradication Programme Advisory Committee, Nov 2-3, 2022, introduce the PPR status in China

[2] 5th Peste des Petits Ruminants Global Research and Expertise Network (PPR-GREN) Meeting. Dec 7-9, 2022.

c) National conferences:

2

[1] National conference for animal disease surveillance and investigation( July 2022)

[2] National meeting for PPR prevention and control ( Dec 2022)

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

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<http://www.xmsyj.moa.gov.cn/yqfb/>

<https://www.cahec.cn/imgList/85.html>

WeChat Official Account

## 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 :

b) Seminars : 24

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
b	India, UK, Bangladesh, France	24

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/IEC 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)
PPR block-ELISA	China National Accreditation Service for Conformity Assessment (ilac-MRA, APLAC-MRA)
PPRV virus isolation	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 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?

Yes

NATIONAL/ INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	Annual workshop of the WOA reference laboratory network for PPR	CIRAD,PIRBRIGHT,CAHEC	2022-12-01	Online	24
International	5th meeting of the PPR Global Research and Expertise Network (PPR-GREN)	PPR GREN Bureau members, CIRAD,FAO,WOAH	2022-12-07	Hybrid	123
National	National meeting for PPR prevention and control		2022-12-01	Online	45

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
Fifth PPR Global Eradication Programme Advisory Committee	2022-11-02	Online	Speaker	WRL/WOA Reference laboratory on PPR
Annual workshop of the WOA reference laboratory network for PPR	2022-12-01	Online	Speaker	An amplicon-based deep-sequencing method for the whole genome characterization of peste des petits ruminants virus from clinical samples
5th meeting of the PPR Global Research and Expertise Network (PPR-GREN)	2022-12-07	Online	Speaker	An amplicon-based deep-sequencing method for the whole genome characterization of peste des petits ruminants virus from clinical samples
Regional Consultation meeting for the South Asian countries for the	2022-01-20	Online	Participant	/

formulation of the second phase of the PPR GEP				
PPR CET meeting for drafting PPR GEP Blueprint and roadmap	2022-04-25	Online	One of the five drafters	Drafting PPR GEP Blueprint and roadmap
PPR CET meeting for drafting PPR GEP Blueprint and roadmap	2022-05-05	Online	One of the five drafters	Drafting PPR GEP Blueprint and roadmap
PPR CET meeting for drafting PPR GEP Blueprint and roadmap	2022-06-23	Online	One of the five drafters	Drafting PPR GEP Blueprint and roadmap
PPR CET meeting for drafting PPR GEP Blueprint and roadmap	2022-07-26	Online	One of the five drafters	Drafting PPR GEP Blueprint and roadmap
Launching of the rinderpest book and the PPR GEP Blue Print	2022-11-04	Online	Participant	/
Contributions of Vétérinaires Sans Frontières (VSF) to the 2030 global PPR eradication programme	2022-11-17	Online	Participant	/

## TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Yes

24. Are you a member of a network of WOAHP 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.
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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?

Yes

TITLE OF THE PROJECT OR CONTRACT	SCOPE	NAME(S) OF RELEVANT WOAHP REFERENCE LABORATORIES
WOAHP 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 WOAHO Reference Laboratories for the same pathogen?

No

## TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)
Attendance at PPR ad hoc Group meeting	Online	Evaluation PPR Status of 4 Members as WOAHO ad hoc Group member
Drafting the PPR eradication Plan blueprint and roadmap, WOAHO/ FAO	Online	Drafting the PPR eradication Plan blueprint and roadmap as FAO/WOAHO Core Expert Team member

29. Additional comments regarding your report:

Yes

*COVID-19 situation and restriction on international exchange of material with biological hazard limited some international activities. As PPR diagnostics and vaccine are relatively matured, technical demands from members are becoming less.*