

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 6 juin 2024 03:24

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Ovine Theileriosis
Address of laboratory:	Xujiaping 1, yangchangbo, Lanzhou, Gansu China
Tel.:	+86-93 18.34.26.81
E-mail address:	yinhong@caas.cn
Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Guiquan Guan
Name (including Title and Position) of WOAHO Reference Expert:	Dr. HongYin
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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
ELISA		500	0
Direct diagnostic tests			
PCR		50	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?

No

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAHO Members?

Not applicable

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.)
LAMP-LFB	We are developing a LAMP-LFB (LFBlood-mediated isothermal amplification combined lateral flow biosensor) for rapid detection ovine theileriosis, which will be used to differentiate Theileria luwenshuni and Theileria uilenbergi, two of the most important pathogens for ovine theileriosis.

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

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

NAME OF THE WOAHS MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
PAKISTAN	About the epidemiology and diagnosis of ovine theileriosis	By communication with colleagues in University of Lahore and Islamia University of Bahawalpur

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

Yes

Research need : 1

Please type the Research need: Rapid and persided diagnostic techniques for the diagnosis of ovine theileriosis in the field, chemical resistance assessing method for chosing drug for the treatment of clinical sick animals.

Relevance for WOAHS Disease Control, Standard Setting, Facilitation of international collaboration,

Relevance for the Codes or Manual Manual,

Field Epidemiology and Surveillance, Diagnostics, Therapeutics,

Animal Category Terrestrial,

Disease:

Ovine theileriosis

Kind of disease (Zoonosis, Transboundary diseases) Transboundary diseases,

If any, please specify relevance for Codes or Manual, chapter and title

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

Answer: Terrestrial Manual Chapter 3.4.15. Chapter 3.8.13. DIAGNOSTIC TECHNIQUES

Notes:

Answer:

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:

The distribution of ovine theileriosis, the diversity of ovine Theileria, the vectors of ovine Theileria

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:

We collected the data on epidemiology and analysed them, and submitted to the Chinese Animal Health and Epidemiological Center.

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. *Asia and Australasia Regional Network on Infectious Diseases of Animals and Zoonoses*, Monday 9 October 2023

2. *The Ninth International Workshop on Parasitology organized By Chinese Society of Parasitology, Shenyang, China, 7-10th, April, 2023*

c) National conferences:

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1. *The 4th Forum on Tropical Vector-Borne Diseases and Vector Control, Sanya, Hainan, China, April 1- 4, 2023*

2. *The Third Youth Workshop on Veterinary Parasitology organized by Chinese Society of Veterinary Parasitology*

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 WOAHA Members?

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 0

d) Internships (>1 month) 3

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
D	TOGO	1
D	ETHIOPIA	1
D	PAKISTAN	1

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ILAC-MRA,CNAS 17025	ILAC-MRA,CNAS 17025 certificate	CNAS2023.jpg

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISA	China National Accreditation Service for Conformity Assessment

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

Yes

We have the biosafety system for the pathogen and its vecotor acoording to China 19489 biosafy standards

TOR9: SCIENTIFIC MEETINGS

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

Yes

NATIONAL/ INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
National	The 4th Forum on Tropical Vector-Borne Diseases and Vector Control, Sanya, Hainan, China, April 1- 4, 2023	Hainan University, china	2023-04-01	Sanyan, Hainan	28

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

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
Animal Diseases Prevention and control in the point view of One Health	2023-10-13	Zhengzhou, Henan, China	short communication	Ovine piroplasma and their vectors

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Not applicable (only WOAHP Reference Laboratory designated for the disease)

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

Not applicable (Only WOAHP Reference Laboratory designated for the disease)

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

Not applicable (Only WOAHP Reference Laboratory designated for the disease)

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?

Not applicable (Only WOAHP Reference Laboratory designated for the disease)

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	Name of the Test	WOAHP Member Countries
To test the proficiency of staff	Organizer	3	PCR	CHINA (PEOPLE'S REP. OF),

TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)
Providing consutance for the Chinese delegate for General Assemy of WOA?H for the Standards, Manual of Diagnostic Tests and Vaccines for Terrestrial Animals.	Beijing and Qingdao	To help the Chinese veterinary authority to assess the prensent standard and consult the modification of standards, manuals of WOA?H.

29. Additional comments regarding your report:

Yes

As ovine theileriosis is not on the priority list of fundation, and we coloborately submited several project propsals with colleagues in Egypt, Pakistan, Iran, However, all of them have not been financially supported, thus there has been not any international coloboration with our lab. As the culture of T. luwenshuni T. uilenbergi for vaccine development has been in fail, no one is studying vaccine and not validation is performed in our lab.