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 WOAH 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 WOAH 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

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in WOAH Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td>Yes</td>
<td>Nationally: 500</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCR</td>
<td></td>
<td>Nationally: 50</td>
</tr>
</tbody>
</table>

**TOR2: REFERENCE MATERIAL**

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?
   No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?
   No

4. Did your laboratory produce vaccines?
   Not applicable

5. Did your laboratory supply vaccines to WOAH 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 WOAH Standards for the designated pathogen or disease?
8. Did your laboratory develop new vaccines for the designated pathogen or disease?
No

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?
No

**TOR4: DIAGNOSTIC TESTING FACILITIES**

10. Did your laboratory carry out diagnostic testing for other WOAH Members?
No

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

<table>
<thead>
<tr>
<th>NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY</th>
<th>PURPOSE</th>
<th>HOW THE ADVICE WAS PROVIDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAKISTAN</td>
<td>About the epidemiology and diagnosis of ovine theileriosis</td>
<td>By communication with colleagues in University of Lahore and Islamia University of Bahawalpur</td>
</tr>
</tbody>
</table>

**TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?
No

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

**Research need : 1**

- **Please type the Research need:** Rapid and pensided 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 WOAH** 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:

2
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:

2
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 WOAH Members?
Yes

a) Technical visit: 0
b) Seminars: 0
c) Hands-on training courses: 0
d) Internships (>1 month): 3

<table>
<thead>
<tr>
<th>Type of technical training provided (a, b, c or d)</th>
<th>Country of origin of the expert(s) provided with training</th>
<th>No. participants from the corresponding country</th>
</tr>
</thead>
<tbody>
<tr>
<td>D D D</td>
<td>TOGO</td>
<td>1</td>
</tr>
<tr>
<td>D D D</td>
<td>ETHIOPIA</td>
<td>1</td>
</tr>
<tr>
<td>D D D D</td>
<td>PAKISTAN</td>
<td>1</td>
</tr>
</tbody>
</table>

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?
Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
<th>Certificate scan details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILAC-MRA, CNAS 17025</td>
<td>ILAC-MRA, CNAS 17025 certificate</td>
<td>CNAS2023.jpg</td>
</tr>
</tbody>
</table>
19. Is your quality management system accredited?
Yes
<table>
<thead>
<tr>
<th>Test for which your laboratory is accredited</th>
<th>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td>China National Accreditation Service for Conformity Assessment</td>
</tr>
</tbody>
</table>

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 vector according to China 19489 biosafety standards

**TOR9: SCIENTIFIC MEETINGS**

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

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

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

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

**TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES**

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?
Not applicable (only WOAH Reference Laboratory designated for the disease)

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen?
Not applicable (Only WOAH Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
Not applicable (Only WOAH Reference Laboratory designated for the disease)

26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
Not applicable (Only WOAH 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 WOAH Reference Laboratories for the same pathogen?
Yes

<table>
<thead>
<tr>
<th>Purpose for inter-laboratory test comparisons</th>
<th>Role of your reference laboratory (organizer/participant)</th>
<th>No. participating laboratories</th>
<th>Name of the Test</th>
<th>WOAH Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>To test the proficiency of staff</td>
<td>Organizer</td>
<td>3</td>
<td>PCR</td>
<td>CHINA (PEOPLE’S REP OF),</td>
</tr>
</tbody>
</table>

**TOR12: EXPERT CONSULTANTS**
28. Did your laboratory place expert consultants at the disposal of WOAH?
Yes

<table>
<thead>
<tr>
<th>KIND OF CONSULTANCY</th>
<th>Location</th>
<th>SUBJECT (FACULTATIVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing consultancy for the Chinese delegate for General Assembly of WOAH for the Standards, Manual of Diagnostic Tests and Vaccines for Terrestrial Animals.</td>
<td>Beijing and Qingdao</td>
<td>To help the Chinese veterinary authority to assess the present standard and consult the modification of standards, manuals of WOAH.</td>
</tr>
</tbody>
</table>

29. Additional comments regarding your report:
Yes
As ovine theileriosis is not on the priority list of fundation, and we collaboratively submitted several project proposals with colleagues in Egypt, Pakistan, Iran. However, all of them have not been financially supported, thus there has been not any international collaboration 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.