

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-19 08:55:34

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Cysticercosis
Address of laboratory:	Department of Parasitology State Key Laboratory of Veterinary Etiological Biology Lanzhou Veterinary Research Institute Chinese Academy of Agricultural Sciences 1 Xujiaping, Lanzhou, Gansu Province 730046 CHINA (PEOPLES REP. OF)
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Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Xuenong Luo
Name (including Title and Position) of OIE Reference Expert:	Xuenong Luo
Which of the following defines your laboratory? Check all that apply:	Research Academic

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
indirect ELISA	Yes	2400	0
dot-ABC-ELISA	No	5	0
Direct diagnostic tests			
PCR	Yes	4	0
multi-PCR	No	4	0

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

Yes

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
indirect ELISA based on recombinant 18ku	Zhang S, Jia W, Luo X, Jing Z, Wu G, Zheng Y, Guo A, Cai X. Renaturation, purification and antigenicity identification of recombinant protein of <i>Cysticercus cellulosae</i> expressed in <i>Escherichia coli</i> . <i>Sheng Wu Gong Cheng Xue Bao</i> . 2008 Aug;24(8):1490-5.
dot-ABC-ELISA based on monoclonal antibody against cyst fluid	Zhang S, Luo X, Guo A, Zhu X, Cai X. Generation and characterization of monoclonal antibodies specific for 18 kDa antigen from <i>Taenia solium</i> cysticerci. <i>Exp Parasitol</i> . 2016 Jul;166:75-82.

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

No

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:

we have been collectting international epidemiological data about cysticercosis from website or publications.

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:

we have been disseminating the epizootiological data by conference presentations and publishing academic paper and so on.

**13. What method of dissemination of information is most often used by your laboratory?
(Indicate in the appropriate box the number by category)**

a) Articles published in peer-reviewed journals: 2

1. Wang L, Liang P, Wei Y, Zhang S, Guo A, Liu G, Ehsan M, Liu M, Luo X. Taenia solium insulin receptors: promising candidates for cysticercosis treatment and prevention. Acta Trop. 2020 Sep;209:105552.

2. Wang LQ, Liu TL, Liang PH, Zhang SH, Li TS, Li YP, Liu GX, Mao L, Luo XN*. Characterization of exosome-like vesicles derived from Taenia pisiformis cysticercus and their immunoregulatory role on macrophages. Parasit Vectors. 2020 Jun 19;13(1):318.

b) International conferences: 0

c) National conferences: 2

d) Other:

(Provide website address or link to appropriate information) 1

Modified Chinese national standard:diagnostic techniques for cysticercosis

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries

To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO17025	□□□□□□□□.jpg

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Microscope test	China National Accreditation Service for Conformity Assessment(CNAS)
indirect ELISA	China National Accreditation Service for Conformity Assessment(CNAS)

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

Yes

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory

proficiency testing to ensure comparability of results

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

Not applicable (Only OIE Reference Lab. designated for disease)

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Not applicable (Only OIE Reference Lab. designated for disease)

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

Not applicable (Only OIE Reference Lab. designated for disease)

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: <http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
evaluate the indirect ELISA method based on recombinant 18ku	4	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

Yes

Kind of consultancy	Location	Subject (facultative)
review of OIE Standards and Terrestrial Animal Health Code	chapter 3.9.5	Cysticercosis

25. Additional comments regarding your report:

All of the activities related with reference laboratory have been influenced by COVID-19 in 2020.