

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-18 11:27:05

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Middle East respiratory syndrome
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Name (including Title) of Head of Laboratory (Responsible Official):	Priv. Doz. Dr. Dr.habil. Ulrich Wernery
Name (including Title and Position) of OIE Reference Expert:	Priv. Doz. Dr. Dr.habil. Ulrich Wernery, Scientific Director
Which of the following defines your laboratory? Check all that apply:	Other: Semi Governmental

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		Nationally	Internationally
ELISA	Yes	332	0
Direct diagnostic tests		Nationally	Internationally
Virus Isolation	Yes	451	
PCR	Yes	26	

**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?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Viral strains	PCR	Provided	0	9 strains	Friedrich-Loeffler-Institut	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Pooled MERS spike protein RBD Positive sera	Immunoassay	Provided	0	7.2 ml	Sektion für Experimentelle Onkologie und Nanomedizin (SEON)	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
MERS negative camel sera	Immunoassay	Provided	0	200 ml	Sektion für Experimentelle Onkologie und Nanomedizin (SEON)	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

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?

No

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

No

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?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
KOREA (REP. OF)	Diagnostic test development	E-mail

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?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
Development of multi-technology based multi-sided diagnostic platform	2yrs	Development of a highly sensitive detection method	Korea Research institute of chemical technology and center for convergent research of emerging virus infection	KOREA (REP. OF)
Development of a MERS CoV vaccine for camels	2-5 yrs	Preventing the spread of MERS CoV from camels to humans	University of Saskatchewan	CANADA
To sequence complete genome of MERS CoV isolated from the UAE	2 yrs	Phylogenetic analysis	Friedrich-Loeffler-Institut, Insel Riems	GERMANY
Development of a MERS CoV vaccine for camels	5 yrs	Preventing the spread of MERS CoV from camels to humans	Institut für Infektionsmedizin und Zoonosen Lehrstuhl für Virologie, LMU München	GERMANY

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:
MERS epidemiological study is carried out in a camel dairy farm for a year on both mother and calves to evaluate the transmission of the virus within the herd. This study is going on but not yet completed.

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

No

If the answer is no, please provide a brief explanation of the situation:
In the year 2021, we didn't publish any epizootiological data.

**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: 0

b) International conferences: 0

c) National conferences: 0

d) Other:
(Provide website address or link to appropriate information) 0

**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)
ISO/IEC	iasc.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
African Horse Sickness	IAS, USA
Equine Piroplasmiasis	IAS, USA
Equine Infectious Anaemia	IAS, USA
Equine Viral Arteritis	IAS, USA
Glanders	IAS, USA
Dourine	IAS, USA
CEM	IAS, USA
Brucellosis	IAS, USA
West Nile	IAS, USA
Strangles	IAS, USA
EHV 1 & 4	IAS, USA
Influenza A Virus Isolation	IAS, USA
Avian Paramyxovirus Type-1 (APMV-1) virus isolation	IAS, USA
Equine Arteritis Virus isolation from semen	IAS, USA
MERS CoV isolation	IAS, USA
ELISA techniques for various diseases	IAS, USA
CFT technique for various diseases	IAS, USA
AGID technique for various diseases	IAS, USA

17. Does your laboratory maintain a “bio-risk 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?

No

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

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)
Technical expertise	UAE	Validation of BIONOTE® Rapid MERS-CoV Ag Test, OIE listed LFD product which detects the MERS-CoV Ag.

25. Additional comments regarding your report: