

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-18 09:54:08

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Brucellosis (Brucella abortus, B. melitensis)
Address of laboratory:	P.O. Box 12 Beit Dagan 5025001 ISRAEL
Tel.:	+972-3 968 16 98
Fax:	+972-3 968 17 53
E-mail address:	menachemba48@gmail.com
Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Boris Yakobson
Name (including Title and Position) of OIE Reference Expert:	Menachem Banai
Which of the following defines your laboratory? Check all that apply:	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			
MAT goats	No	15/56 (positive/total)	none
CFT goats	Yes	148/6729	none
MAT sheep	No	43/616	none
CFT sheep	Yes	788/31709	none
FPA goats	Yes	96/1529	none
FPA sheep	Yes	586/10213	none
MAT cattle	No	11/1042	none
CFT cattle	Yes	313/58533	none
MAT Camels	No	11/1042	none
CFT Camels	Yes	27/831	none
Direct diagnostic tests			
Bacterial Isolation	Yes	Sheep 1	none
Bacterial isolation	Yes	Goats 0	none
Bacterial isolation	Yes	. mel bv. 2Cattle 11B. mel bv.1; 13 B	none
Brucella typing human strains	yes	B. mel bv. 1 68; B. mel bv. 2 5 1, B. mel rough 1	none
Bacterial isolation	Yes	B. canis from bitch 1	none

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.)
Serum PCR	2nd International Symposium on Brucellosis, On Line Download https://rr-asia.oie.int/wp-content/uploads/2020/09/20201019_20_the-second-international-academic-conference-on-brucellosis.pdf On-Line https://rr-asia.oie.int/en/news/new-webpage-on-events-organised-by-the-oie-rcs/
Brucella OPS conjugate vaccine	2nd International Symposium on Brucellosis, On Line Download https://rr-asia.oie.int/wp-content/uploads/2020/09/20201019_20_the-second-international-academic-conference-on-brucellosis.pdf On-Line https://rr-asia.oie.int/en/news/new-webpage-on-events-organised-by-the-oie-rcs/

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?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
Rev. 1 vaccine recognition by MALDI Tof	3 months	Identify Rev. 1 strain by MALDI Tof	Prof. Sascha Al Dahouk from the Federal Institute for Risk Assessment (BfR), Berlin, Germany	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?

No

If the answer is no, please provide a brief explanation of the situation:

Israel is not approached by other countries for sustainable collaborative research

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:

Due to Corona limitations, our laboratory worked only at low gear

**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: 1

2nd International Symposium on Brucellosis, Beijing, China, 19-20, October, 2020

Video Conference

Brucella vaccines, purpose of use and unorthodox solutions

Shubham Mathur^{1,2}, Dani Cohen¹ and Menachem Banai²

¹Department of Epidemiology and Preventive Medicine, School of Public Health, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel, and ²National, OIE and FAO Reference Laboratory for Brucellosis, Department of Bacteriology, Kimron Veterinary Institute, Bet Dagan, Israel.

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 1

Download

https://rr-asia.oie.int/wp-content/uploads/2020/09/20201019_20_the-second-international-academic-conference-on-brucellosis.pdf

On-Line

<https://rr-asia.oie.int/en/news/new-webpage-on-events-organised-by-the-oie-rcls/>

***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 17025:2017 ISO 15189:2012	ISO 17025+ ISO 15189.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
MAT	Animal and Plant Health Agency (APHA) Telephone: +44 (0)1509 670 607 Email: claire.jones@apha.gsi.gov.uk or vetqas@apha.gsi.gov.uk Website: www.gov.uk/apha Twitter: @APHAgovuk Facebook: aphagov Address: Quality Assurance Unit, The Elms, College Road, Sutton Bonington, Loughborough, LE12 5RB
CFT	Animal and Plant Health Agency (APHA) Telephone: +44 (0)1509 670 607 Email: claire.jones@apha.gsi.gov.uk or vetqas@apha.gsi.gov.uk Website: www.gov.uk/apha Twitter: @APHAgovuk Facebook: aphagov Address: Quality Assurance Unit, The Elms, College Road, Sutton Bonington, Loughborough, LE12 5RB
RBT	Animal and Plant Health Agency (APHA) Telephone: +44 (0)1509 670 607 Email: claire.jones@apha.gsi.gov.uk or vetqas@apha.gsi.gov.uk Website: www.gov.uk/apha Twitter: @APHAgovuk Facebook: aphagov Address: Quality Assurance Unit, The Elms, College Road, Sutton Bonington, Loughborough, LE12 5RB

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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
2nd International Symposium on Brucellosis	October, 2020	Beijing, China	Key note speaker	Brucella vaccines, purpose of use and unorthodox solutions

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?

Yes

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?

No

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?

No

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
Proficiency	40	<input checked="" type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input checked="" 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)
Editing next OIE Manual	By correspondence	Brucella

25. Additional comments regarding your report:

This year is remarked by Covid-19 pandemic that also severely affected laboratory performances following several lock-downs and limits in field activities. Nevertheless, all national duties have been successfully conducted with excellence.

Our work on development of serum PCR on one hand, and Brucella OPS conjugate vaccine, on the other, has been performed by Mr. Shubham Mathur, an Indian civilian, a Ph.D. candidate of Tel Aviv University that fulfils his research work on Brucella at the Israeli National, OIE and FAO Reference Laboratory for Brucellosis, in co-supervision by Dr. Menachem Banai