

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-19 19:33:38

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Brucellosis (Brucella abortus, B. melitensis, B. suis)
Address of laboratory:	Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise, Via Campo Boario 64100 Teramo ITALY
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Name (including Title) of Head of Laboratory (Responsible Official):	Dr Nicola D'Alterio, DVM, Director General
Name (including Title and Position) of OIE Reference Expert:	Dr Fabrizio De Massis, DVM, Head of Branch Laboratory
Which of the following defines your laboratory? Check all that apply:	Governmental Other: Research in Public Health

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
RBT	Yes	235824	50
CFT	Yes	22919	50
I-ELISA (bovine serum)	Yes	537	50
I-ELISA (ovicaprine serum)	Yes	0	20
I-ELISA (porcine serum)	Yes	1634	0
C-ELISA (Bovine / Ovine / Caprine sera)	Yes	537	0
C-ELISA (porcine serum)	No	1634	0
Milk ELISA	Yes	150	0
CFT RB51	No	2127	0
SAT B. canis	No	2519	0
Direct diagnostic tests		Nationally	Internationally
Bacterial isolation	Yes	2565	0
Brucella identification and biotyping (animal strains) Yes 339	Yes	339	0
Brucella identification and biotyping (human strains) Yes 1	Yes	1	0
PCR	Yes	340	0
MALDI-TOF	No	400	0
PCR-RFLP (identification)	Yes	251	0
Bruceladder	Yes	74	0
MLVA in silico from genome assembly	Yes	87	6
MLST	Yes	87	6
WGS (SNP typing, cgMLST)	Yes	87	6

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
Rose Bengal Antigen	RBT	Produced and provided (223080 ml)	143520	200	4	<input checked="" type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Brucella CFT Antigen CFT Produced (0ml) 0 0 0 Africa	CFT	Produced (0ml)	0	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Brucella RB51 Antigen	CFT	Produced and provided (300 ml)	2586	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Milk Ring Test Antigen	Milk Ring Test	Produced (0 ml)	0	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Brucella canis SAT Antigen	SAT	Produced and provided (900 ml)	95	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
LPS Antigen from Brucella abortus s 99	Various	Produced and provided (53 ml)	3.3	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

Negative Buffalo Serum for <i>Brucella abortus</i>	Negative control for all serological methods	Produced and provided (25 ml)	5	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Positive Buffalo Serum for RB51	CFT	Produced and provided (0 ml)	16	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Negative Standard Bovine Serum for <i>Brucella abortus</i>	Negative control for all serological methods	Produced (0 ml)	228	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Rabbit Serum positive for <i>Brucella canis</i>	Positive control for all serological methods	Provided (220 ml)	6.5	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Bovine Serum Negative for <i>Brucella</i> spp.	Negative control for all serological methods	Produced and provided (0 ml)	256	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Water Buffalo Serum Positive for <i>Brucella abortus</i> strain RB51	Positive control for all serological methods	Produced and provided (0 ml)	30	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
National Standard Serum for <i>Brucella abortus</i>	Positive control for all serological methods	Produced and provided (0 ml)	149	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input 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?

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.)
Search for antibodies to <i>Brucella canis</i> by slow serum agglutination in micromethod	Improvement of the Method
Search for antibodies to <i>Brucella canis</i> by Indirect Immunofluorescence test (IFAT)	Improvement of the Method
Search for antibodies to <i>Brucella canis</i> by Complement fixation test (CFT)	Improvement of the Method
Search for vaccine antibodies against <i>Brucella abortus</i> RB51 strain by complement fixation test (CFT)	Improvement of the Method
Search for antibodies against <i>Brucella</i> spp. (smooth strains) by rapid serum agglutination and complement fixation	Improvement of the Method

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
ERFAN. Enhancing Research and Development in Africa through OIE Reference Laboratories and Collaborating Centres, and Poles of Excellence, as resultant of OIE twinning Projects - ERFAN	3 years	ERFAN is an OIE network to facilitate and strengthen collaboration among countries of the SADC Region and Arab Maghreb Union (UMA) as well as IZSAM in the Animal health and food security domains.	OIE CC University of Pretoria National Central Veterinary Laboratories, and some Faculties of Veterinary Science of other African countries: Angola, Mozambique, Namibia, Tanzania, Zambia and Zimbabwe	ALGERIA ANGOLA LIBYA MOROCCO MOZAMBIQUE NAMIBIA TANZANIA TUNISIA ZAMBIA ZIMBABWE
OIE twinning project on Epidemiology and Risk Assessment Between IZSAM and the Department of Animal Resources Risk Assessment (KSA ARRAD) - Kingdom of Saudi Arabia	3 years	OIE Twinning project	Department of Animal Resources Risk Assessment (KSA ARRAD) Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale"	SAUDI ARABIA
Twinning Project Strengthening the Veterinary Services and Food Safety Capacities of the Lebanese Ministry of Agriculture - LB 15 ENI AG 03 18	2 years	Twinning project founded by the European Union	Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" Lebanese Veterinary Services	LEBANON
IDEMBRU	2.5 year (30 months, 2020-2022)	Identification of potentially emerging Brucella species: new threats for human and animals. To produce a toolkit of immunological and molecular techniques to detect classical and emerging strains of Brucella spp.	ANSES (lead) + Members of the consortium of One Health EJP	BULGARIA FRANCE GERMANY ITALY PORTUGAL THE NETHERLANDS UNITED KINGDOM
EUOHZ Report	4 years 2021-2024	Provision of support to EFSA and to ECDC in the production of the EU One Health Zoonoses report and in related zoonoses online interactive data visualisation dashboards and zoonoses story maps	IZSAM (lead) + different expert coming from the EU Member States	

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:
<p>The Reference Laboratory collaborates with the OIE CC for veterinary epidemiology, in managing and updating the Information System on animal brucellosis, taking care, in particular, of the publication of the quarterly summaries on the progress of the national plans for the eradication of bovine, buffalo, sheep and goat brucellosis in non-officially free territories. Criteria for the calculation of main epidemiological indicators have been defined in order to highlight the dissemination or persistence of infection in specific geographic areas. The quarterly summaries are produced by integrating the laboratory data with the data generated by veterinary services activities. As part of its institutional activities in collaboration with The national reference centers for brucellosis and epidemiology, the CRNB has provided technical support in the analysis and organization of the data and information necessary for the preparation of national plans for the eradication of bovine, buffalo, sheep and goats brucellosis in Italy, submitted to the European Commission for the approval of the financial contribution and the necessary changes due to the entry into force of Regulation (EU) 2016/429 (the so-called Animal Health Law - AHL).</p>

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:
<p>International and national research conference and seminars. See publications below</p>

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: 5

- Bruno Tilocca, Alessio Soggiu, Viviana Greco, Flavio Sacchini, Giuliano Garofolo, Valentina Paci, Luigi Bonizzi, Andrea Urbani, Manuela Tittarelli, Paola Roncada, "Comparative proteomics of *Brucella melitensis* is a useful toolbox for developing prophylactic interventions in a One-Health context" *One Health*, Volume 13, 2021, <https://doi.org/10.1016/j.onehlt.2021.100253>.
- De Massis, F., Sacchini, F., Averaimo, D., Garofolo, G., Lecchini, P., Ruocco, L., Lomolino, R., Santucci, U., Sgariglia, E., Crotti, S., Petrini, A., Migliorati, G., D'Alterio, N., Gavaudan, S., & Tittarelli, M. (2021). First Isolation of *Brucella canis* from a breeding kennel in Italy. *Veterinaria Italiana*. <https://doi.org/10.12834/VetIt.2497.15848.1>
- Ledwaba, M. B., Glover, B. A., Matle, I., Profiti, G., Martelli, P. L., Casadio, R., Zilli K., Marotta F., Janowicz A., Garofolo G., Van Heerden, H. (2021). Whole Genome Sequence Analysis of *Brucella abortus* Isolates from Various Regions of South Africa. *Microorganisms*, 9(3), 570.
- Paci V., Visciano P., Krasteva I., Di Febo T., Perletta F., Di Pancrazio C., D'Onofrio F., Schirone M., Tittarelli M., Luciani M., 2021. Identification of immunogenic candidate for new serological tests for *Brucella melitensis* by proteomic approach. *The Open Microbiology Journal*, 15: 92-97.
- Hallberg I., Alm H., Dahlquist M., Gunnarsson Schütz L., Lopes, S., Schöneberg B., Pleva R., Linde Forsberg. C., De Massis F., Ström Holst. B., 2021. Misstänkt fall av infektion med *Brucella canis* hos en hanhund i Sverige. *Svensk Veterinärtidning* 73: 20-24. <https://pub.epsilon.slu.se/26067/>

b) International conferences: 17

- Zilli K., A. Janowicz, Tittarelli M., Ancora M., Anna Cerrone, Alessandro Dondo, Chiara Piraino, F. De Massis, Garofolo G.: Brucellosi in Italia quadro epidemiologico degli ultimi dieci anni nelle popolazioni animali. XX Congresso Nazionale S.I.Di.L.V - Webinar 25-26 novembre 2021

- F. Perletta, C. Di Pancrazio, D. Rodomonti, V. Paci, T. Di Febo, M. Luciani, I. Krasteva, F. De Massis, F. Sacchini, M. Tittarelli. 2021. "Comparison of three Serological Tests for the Diagnosis of Canine Brucellosis Caused by *Brucella canis* in Italy". Atti del Discontools Symposium – Filling the knowledge gaps in animal disease control, Brussels (Belgio), 20 ottobre 2021, p. 17
- Krasteva I., Luciani M, Di Febo T., Perletta F., Sonsini L., Sacchini F., Tittarelli M., 2021. Proteomics and bioinformatics investigations to improve serological diagnosis of canine brucellosis caused by *Brucella canis*. Atti del 7th European Veterinary Immunology Workshop, Belgrado (Serbia), 29-31 agosto 2021, p. 106
- Perletta F., Di Pancrazio C., Rodomonti D., Paci V., Di Febo T., Luciani M., Krasteva I., De Massis F., Sacchini F., Tittarelli M. "Comparazione di Test Sierologici per la Diagnosi di Brucellosi Canina" SIDILV 2021
- Ponsart C., Ferreira A.C., Daskalov H., Garofolo G., Melzer F., Freddi L., Girault G., Ferreira Vicente A., Ashford R., Whatmore A., Al Dahouk S., Prasse D., Kydyshev K., Cavaco S., De Massis F., Sacchini F., Milanov M., Pelerito A., van der Esker M., Kampfraath D., Djokic V. Biotopes for detection of emerging *Brucella* species: a new strategy to identify putative threats (IDEMBRU). Proceedings of the One Health EJP Annual Scientific Meeting 2021, Copenhagen, Denmark, 9th-11th June 2021.
- Martina Scudeler, Giacomo Zoppi, Lara Savini, Luca Candeloro, Luigi Bertolotti, Mario Giacobini. Italian Buffalo Movement Network: qualitative analysis and impact on disease diffusion. Live presentation, ModAH² webinar, 27 May 2021.
- Luciani M., Krasteva I., Di Febo T., Perletta F., Sonsini L., De Massis F., Sacchini F., Tittarelli M., 2021. Proteomics and bioinformatics investigations to improve serological diagnosis of canine brucellosis caused by *Brucella canis*. Proceedings of the 72nd Annual Brucellosis Research Conference International Brucellosis Society, December 4-5, 2021, Marriott Downtown Magnificent Mile Chicago, Illinois. 24.
- Perletta F., Di Pancrazio C., Rodomonti D., Paci V., Di Febo T., Luciani M., Krasteva I., De Massis F., Sacchini F., Tittarelli M., 2021. Comparison of three Serological Tests for the Diagnosis of Canine Brucellosis Caused by *Brucella canis* in Italy. Proceedings of the 72nd Annual Brucellosis Research Conference International Brucellosis Society, December 4-5, 2021, Marriott Downtown Magnificent Mile Chicago, Illinois. 20-21.
- F. De Massis, F. Sacchini, S. Pelini, R. Lomolino, L. Ruocco, D. Lecchini, S. Gavaudan, M. Moriconi, A. Duranti, M. Tittarelli., 2021. Epidemiological and management activities carried out following *Brucella canis* outbreak in Italy in 2020. Proceedings of the 72nd Annual Brucellosis Research Conference International Brucellosis Society, December 4-5, 2021, Marriott Downtown Magnificent Mile Chicago, Illinois. 19.
- ERFAN - Web-based Training days for project partners. Online platform, 12/26 October 2021; 2/9/16 November 2021
- 1° Expert meeting – Animal health law. EU reference laboratory - webinar 9/09/2021
- 2° Expert meeting – Animal health law. EU reference laboratory - webinar 20/10/2021
- 3° Expert meeting – Animal health law. EU reference laboratory - webinar 18/11/2021
- Workshop One Health EJP COHESIVE + IDEMBRU Projects "Controlling the spread of *B. canis* in Europe" 18 maggio 2021 - Webinar
- 14th Workshop of the EU National Reference Laboratories for Brucellosis. Webinar 10 dicembre 2021
- Reporting Guidelines for the Life Sciences and One Health 8, 15 and 22 November 2021.
- Workshop: Controlling the spread of *Brucella canis* in Europe. Webinar 18 May 2021

c) National conferences: 5

- Conference "The results of the current research conducted by the Experimental Zooprophyllactic Institute of Abruzzo and Molise G. Caporale - Year 2020", June 17, 2021, Teramo
- Study day on Brucellosis. Webinar, October 25, 2021
- Training webinar on the correct use of the Brucellosis, Tuberculosis and LEB dashboards present in VETINFO. January 26 and February 4, 9, 12, 2021.
- Methods and approaches for risk assessment in Animal Health (module I). Webinar, 15-16-20-21 September 2021
- - Methods and approaches for risk assessment in Animal Health (module II). Webinar, October 26-28-29 October 2021

d) Other:

(Provide website address or link to appropriate information) 0
www.izs.it

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?

Yes

- a) Technical visits: 1
- b) Seminars: 3
- c) Hands-on training courses: 2
- d) Internships (>1 month): 0

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
a	Lebanon	10
b	Italy	128
b	Italy	200
b	Africa and European Union	45
c	Italy	94
c	Italy	10 (module I) 14 (module II)

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 17025	Certificato Accredia ISO17025_202001.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Complement Fixation test (CFT)	ACCREDIA (member of EA, IAF and ILAC)
Rose Bengal Test (RBT)	ACCREDIA (member of EA, IAF and ILAC)
I-ELISA (milk and serum)	ACCREDIA (member of EA, IAF and ILAC)
Fluorescence Polarization Assay (FPA)	ACCREDIA (member of EA, IAF and ILAC)
CFT - RB51	ACCREDIA (member of EA, IAF and ILAC)
<i>Brucella</i> spp. Isolation	ACCREDIA (member of EA, IAF and ILAC)
<i>Brucella</i> spp. Isolation from food matrix	ACCREDIA (member of EA, IAF and ILAC)
Identification and typing	ACCREDIA (member of EA, IAF and ILAC)
c-ELISA	ACCREDIA (member of EA, IAF and ILAC)
PCR-RFLP	ACCREDIA (member of EA, IAF and ILAC)
PCR Bruce ladder	ACCREDIA (member of EA, IAF and ILAC)

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?

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?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
EU Bovine Brucellosis Serum Proficiency Test 2021 organised by EU-RL ANSES.	Participant	EU Member States	ANSES France EU RL for Brucellosis
ILPT Brucellosis milk serum iELISA 2021.	Participant	EU Member States	ANSES France EU RL for Brucellosis

¹ validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

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?

Yes

Title of the project or contract	Scope	Name(s) of relevant OIE Reference Laboratories
IDEMBRU	Capacity building for atypical Brucella	OIE Reference Laboratories for Brucellosis: ANSES Scientific coordinator, FLI Germany, APHA UK, IZSAM, LNIIV.
ERFAN. Enhancing Research and Development in Africa through OIE Reference Laboratories and Collaborating Centres, and Poles of Excellence, as resultant of OIE twinning Projects - ERFAN	Research Development in African Countries. ERFAN is an OIE network to facilitate and strengthen collaboration among countries of the SADC Region and Arab Maghreb Union (UMA) as well as IZSAM in the Animal health and food security domains.	

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
8th IZSAM National and international proficiency testing for brucellosis identification in food	7 (No Internationals)	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
15th IZSAM National and international proficiency testing for brucellosis identification in animal specimens	15 (No Internationals)	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
21th IZSAM National and international brucellosis serology proficiency testing	65 (1 International)	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
FAO International brucellosis serology proficiency testing	12	<input checked="" 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?

No

25. Additional comments regarding your report:

- Organised by OIE; Working Group for the revision of the chapters of the OIE Manual concerning brucellosis (*B. abortus*, *B. melitensis*, *B. suis* and *B. ovis*)
- Organised by EU; Chairmanship and participation to the Task force on monitoring animal disease eradication programmes in Member States- Brucellosis subgroup.
- Organised by EFSA; Participation to the Animal Health and Welfare Network
- Organised by EFSA; Participation to the Task Force on Zoonosis Data Collection;
- Organised by EFSA; Participation to the Working group on Zoonosis SINZOO;
- Organised by EFSA; Participation to the Zoonosis Monitoring Network;
- Organised by OIE ERFAN Project: Online Meetings of the ERFAN Brucellosis Working Group
- Organised by EURL for Brucellosis: PCR Expert Meeting
- Organised by EURL for Brucellosis: 1st and 2nd Expert Meeting of the EU Brucellosis National Reference

Laboratories online

- Organised by EURL for Brucellosis: IDEMBRU Online meetings
- One Health EJP COHESIVE + IDEMBRU Projects Working group: Controlling the spread of *Brucella canis* in Europe.