# OIE Reference Laboratory Reports Activities

## Activities in 2014

**This report has been submitted : 2015-01-23 21:30:20**

<table>
<thead>
<tr>
<th>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</th>
<th>Bovine tuberculosis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address of laboratory:</strong></td>
<td>Unité des zoonoses bactériennes (ACI-ROU-009), Laboratoire de Santé Animale, Anses, 14 rue Pierre et Marie Curie, 94701 Maisons-Alfort, FRANCE</td>
</tr>
<tr>
<td><strong>Tel.:</strong></td>
<td>+33 (0)1 49 77 13 50</td>
</tr>
<tr>
<td><strong>Fax:</strong></td>
<td>+33 (0)1 49 77 13 44</td>
</tr>
<tr>
<td><strong>E-mail address:</strong></td>
<td><a href="mailto:Maria-laura.boschirol@anses.fr">Maria-laura.boschirol@anses.fr</a></td>
</tr>
<tr>
<td><strong>Website:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Name (including Title) of Head of Laboratory (Responsible Official):</strong></td>
<td>Dr. Pascal Boireau, Head of the Animal Health Laboratory, Anses, Maisons Alfort</td>
</tr>
<tr>
<td><strong>Name (including Title and Position) of OIE Reference Expert:</strong></td>
<td>Dr. María Laura Boschirol-Cara, Research Director, head of the Tuberculosis National Reference Laboratory</td>
</tr>
<tr>
<td><strong>Which of the following defines your laboratory? Check all that apply:</strong></td>
<td>Governmental</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in OIE Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nationally</td>
<td>Internationally</td>
</tr>
<tr>
<td>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IFNg test</td>
<td>Y</td>
<td>40</td>
</tr>
<tr>
<td>Serology (cattle)</td>
<td>N</td>
<td>80</td>
</tr>
<tr>
<td>Serology (wild boar)</td>
<td>N</td>
<td>40</td>
</tr>
<tr>
<td>tuberculine batch control</td>
<td>Y</td>
<td>14</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bacteriology</td>
<td>Y</td>
<td>438</td>
</tr>
<tr>
<td>strains identification</td>
<td>Y</td>
<td>1065</td>
</tr>
<tr>
<td>PCR</td>
<td>Y</td>
<td>1742</td>
</tr>
<tr>
<td>spoligotyping</td>
<td>Y</td>
<td>772</td>
</tr>
<tr>
<td>MLVA</td>
<td>Y</td>
<td>149</td>
</tr>
</tbody>
</table>

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?
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

<table>
<thead>
<tr>
<th>Name of the OIE Member Country receiving a technical consultancy</th>
<th>Purpose</th>
<th>How the advice was provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRELAND</td>
<td>Achievement of a vaccination trial for wildlife</td>
<td>bacteriology and PCR on samples from vaccinated badgers</td>
</tr>
</tbody>
</table>

**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?
**Title of the study**

Protective efficacy of heat inactivated M. bovis as an oral vaccine against tuberculosis in European badgers

**Duration**

6 months

**Purpose of the study**

Evaluation of the efficacy of an inactivated M. bovis strain in badgers for vaccination

**Partners (Institutions)**

Neiker (Spain), IREC (Spain), University of Dublin (Ireland), AHVLA (UK), INRA (France), Anses (France), University College of Dublin (Ireland)

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**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

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

Yes

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: 11


b) International conferences: 11


c) National conferences: 4


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?

Yes

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

<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>Hands-on training course</td>
<td>Korea</td>
<td>1</td>
</tr>
</tbody>
</table>

**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 certified according to an International Standard?

Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 17025</td>
<td>1-2246.pdf</td>
</tr>
</tbody>
</table>

16. Is your laboratory accredited by an international accreditation body?

No

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

Yes
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

<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>Primer encuento inter-americano brucelosis y tuberculosis en el mundo animal</td>
<td>20/11/2014</td>
<td>Montpellier, France</td>
<td>speaker</td>
<td>TB, the French approach • Comparisons amongst methodologies</td>
</tr>
</tbody>
</table>

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?

Yes
Protective efficacy of heat inactivated M. bovis as an oral vaccine against tuberculosis in European badgers

control of badger disease and then spillover to cattle

bovine tuberculosis OIE reference laboratory, AHVLA, GB.

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**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](http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing) see point 1.3*

<table>
<thead>
<tr>
<th>Purpose for inter-laboratory test comparisons</th>
<th>No. participating laboratories</th>
<th>Region(s) of participating OIE Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVR-spoligotyping (organised by the bovine tuberculosis EURL)</td>
<td>unknown (ongoing)</td>
<td>□Africa □Americas □Asia and Pacific □Europe □Middle East</td>
</tr>
<tr>
<td>Biological test of tuberculins (organised by the bovine tuberculosis EURL)</td>
<td>unknown (ongoing)</td>
<td>□Africa □Americas □Asia and Pacific □Europe □Middle East</td>
</tr>
<tr>
<td>Direct extraction and microbiological culture (organised by the bovine tuberculosis EURL)</td>
<td>unknown (ongoing)</td>
<td>□Africa □Americas □Asia and Pacific □Europe □Middle East</td>
</tr>
<tr>
<td>Direct extraction and microbiological culture (organised by our laboratory)</td>
<td>18</td>
<td>□Africa □Americas □Asia and Pacific □Europe □Middle East</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Kind of consultancy</th>
<th>Location</th>
<th>Subject (facultative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIE ad hoc group</td>
<td>OIE Headquater</td>
<td>revision of code chapter for animal tuberculosis</td>
</tr>
</tbody>
</table>

25. Additional comments regarding your report: