

Activities of the EURL during 2013-2014

2015 EURL Expected Activities

EU Reference Laboratory for Brucellosis
ANSES – Maisons-Alfort, France

The 2013-2014 Workprogramme

A1

- Support to DG Sanco and NRLs

A2

- Training activities

A3

- Interlaboratory ring trials

A4

- Meetings, WS

A5

- Website

A6

- Specific studies

A1 - Support to DG Sanco and to EU Brucellosis NRLs

Technical advises

- Unexpected or doubtful results from sera
- Identification and biotyping of strains

Supply of biological material

- Standardised reagents for immunological diagnosis
- Reference strains

Reagent controls

- 9 batches of RBT antigen
- 1 batch of CFT antigen
- batches of iELISA (10 bovine sera and 5 milk)
- 4 batches of positive control sera

+ Report of the Brucellosis NRL's annual activity

A1 - Support to DG Sanco and to EU Brucellosis NRLs

Strains collection

- Collection of *B melitensis* (request sent in early 2014)
- Only a few responses....**so please, help us !**
- Transport : to be organised

Technical advises



1) 25 sera from Northern Ireland

3) 1 strain from Lithuania genotyped

4) 3 strains from FYROM genotyped

2) 20 sera from Kosovo

5) 6 strains from Cyprus genotyped

Biological material

Reference strain (supplier)

Reference strains (ext. EU)

★ Thailand

Standard sera (+17 supplier requests)

B. ovis antigen (+ control)



Monospecific (Anti-A, M) , polyclonal (R, S) and negative sera : to be organised before end of 2014



Scale 1: 19,500,000
Lambert Conformal Conic Projection,
standard parallels 40°N and 56°N
300 Kilometers
20 300 Miles
Boundary representation is

A2 - Training activities (2013 & 2014)



Trainees



EU standardised CFT (7+4)

Bacteriological isolation, identification and typing



A3 - Inter-laboratory ring trials

2013

- Validation RT for EU Porcine brucellosis (EUPBSS) and EU Brucella ovis (EUBoSS) Standard Sera in comparison with the OIE corresponding standards (ISaBsS and ISaBoS) : to be presented during the WS
- ILPT for bovine brucellosis milk I-ELISA : to be presented during the WS

2014

- ILPT for serological tests in brucellosis (RBT, CFT, SAT and iELISA) : to be presented during the WS
- ILPT for batch control of Rose-Bengale diagnostic antigens planned for the 2nd semester of 2014.



A4 - Meetings / Workshops

2013

- A two-day workshop in September 2013 in Zagreb, Croatia

2014

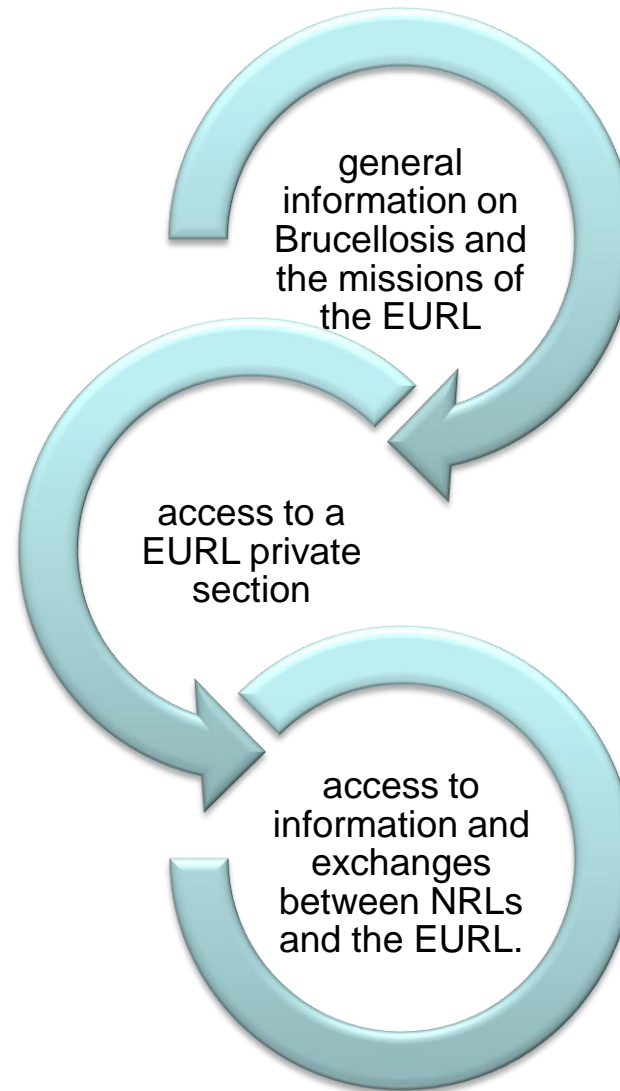
- A two-day workshop in September 2014 in Berlin, Germany



Activity 4. Meetings / Workshops



A5 – Website management





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OIE manuel, EU regulation...

OIE, FAO, WHO, DG SANCO....

EURL contacts, NRL network details

Enter your LRUE username.

Password *

Enter the password that accompanies your username.

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Brucella

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BRUCELLA

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- Approved biologicals
- Documents

Workshops (agenda, presentations, pictures...)

- Interlaboratory tests
- Meetings
- Diagnostics - Control activities
- Reagents provided
- Standard operating procedures
- Training courses
- Workplan
- EURL reports
- Scientific activities

Tests in progress + previous reports (instructions, result sheets...)

List of tests performed by EURL team + contacts

List of reagents provided + product sheets, price list

Posters, publications.....

Brucella

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A6 – Specific studies

6.1. *To address the recommendations of EFSA for ovine and caprine brucellosis*



- Comparative analysis of EU approved tests (RBT, CFT) with FPA, iELISA (standardised according recently adopted criteria against the OIE ISaBmS international standard serum) and cELISA of different formats (*i.e.* at least 3 different commercial kits available in the EU)
- **2014** : Fluorescence polarisation assay (FPA) in progress

6.2. *Molecular typing as a tool for improving the investigation of Brucellosis outbreaks and human cases*



Under progress....



OPEN ACCESS PEER-REVIEWED
RESEARCH ARTICLE

Brucella melitensis in France: Persistence in Wildlife and Probable Spillover from Alpine Ibex to Domestic Animals

Virginie Mick, Gilles Le Carrou, Yannick Corde, Yvette Game, Maryne Jay, Bruno Garin-Bastuji
Published: April 14, 2014 • DOI: 10.1371/journal.pone.0094168

Reemergence of *Brucella melitensis* in Wildlife, France

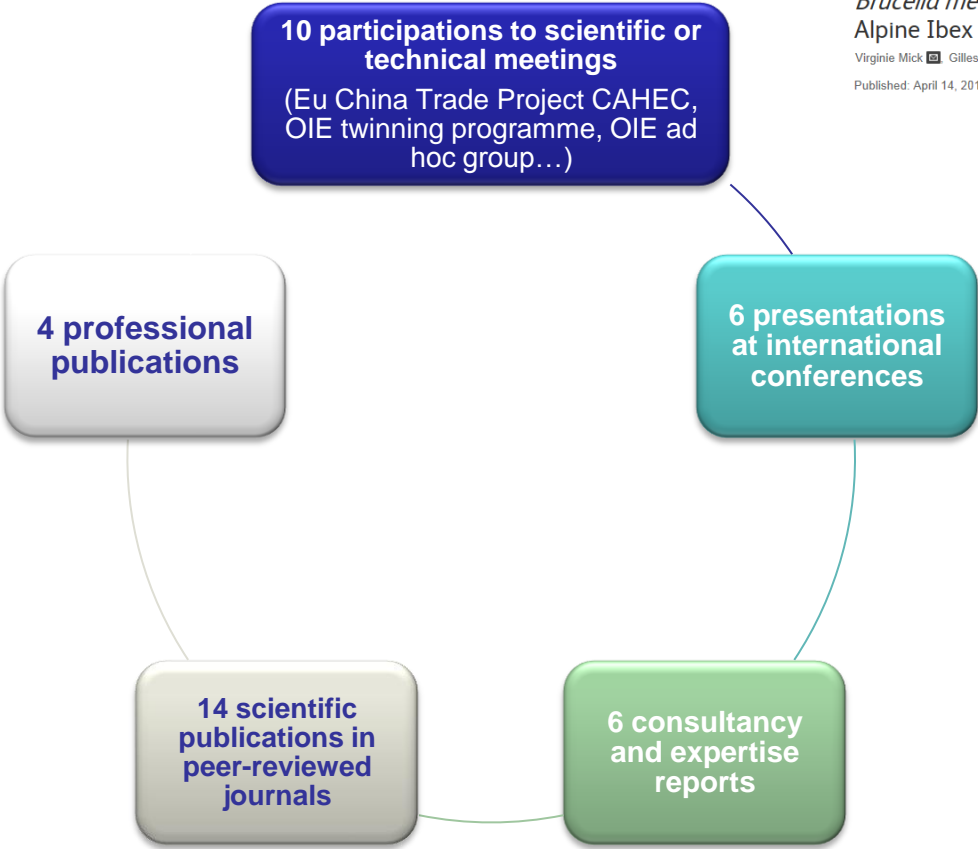
To the Editor: Brucellosis is a worldwide zoonosis caused by *Brucella* spp. France has been free of bovine, ovine, and caprine brucellosis (caused by *B. abortus* or *B. melitensis*) since 2003 (1). In early 2012, an outbreak of bovine and human brucellosis caused by *B. melitensis* biovar 3 (*Bmel3*) occurred in a French Alp massif (mountainous region), where the last reported outbreak occurred in 1999 (online Technical Appendix Figure, <http://wwwnc.cdc.gov.EID/article/20/9/13-1517-Techapp1.pdf>) (2). This outbreak suggested the

We conducted our investigation during the fall–winter of 2012–2013 in the entire massif where the outbreak occurred. Blood, lung, spleen, and testes or uterus samples were obtained from all hunted animals. French Authorities authorized the killing of 12 seropositive or diseased Alpine ibex with clinical signs of brucellosis (i.e., arthritis or orchitis) among 30 captured animals.

All serum samples were tested according to requirements of the World Organisation for Animal Health for diagnosis of brucellosis in small ruminants by using by the Rose Bengal test (RBT) and the complement fixation test (CFT) (7), and by indirect ELISA (IDEXX, Montpellier, France) and competitive ELISA

1570

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The 2015 Workprogramme

A1

- Support to DG Sanco and NRLs

A2

- Interlaboratory ring trials

A3

- NRLs network related training activities and animation

A4

- Development, evaluation of innovative analytical methods

The 2015 Workprogramme

A1

- SOP « Brucella identification (species / biovar)
- Strains collection : B abortus requested
- Report of the NRLs activity

A2

- One milk iELISA ILPT

A3

- 2 training sessions : topics to be discussed during the WS
- WS : Fall 2015, France, Maisons-Alfort
- Website : private sections will be developed

A4

- Ovine and caprine serological tests study (following EFSA recommendations) : **final analysis**
- Development of iELISA bulk milk in small ruminants (2015-2017) : **collection of samples**
- Molecular typing as a tool for improving the investigation of outbreaks (including human cases)
- Diagnostic tools including AST and sequencing approaches for *Brucella* strains



Thank you

