Name of disease (or topic) for which you are a designated OIE Reference Laboratory: Avian chlamydiosis

Address of laboratory: Laboratory for Immunology and Animal Biotechnology, Ghent University, Faculty of Bioscience Engineering, Department of Animal Production, Coupure links, 653, 9000 Ghent BELGIUM

Tel.: +32-09 264.59.72

Fax: +32-09 264.8721

E-mail address: Daisy.Vanrompay@ugent.be

Website: 

Name (including Title) of Head of Laboratory (Responsible Official): Prof. Dr. Daisy Vanrompay (DVM, PhD)

Name (including Title and Position) of OIE Reference Expert: Prof. Dr. Daisy Vanrompay (DVM, PhD)

Which of the following defines your laboratory? Check all that apply: Academic
**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>0</td>
<td>0</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>nested PCR</td>
<td>YES</td>
<td>81</td>
</tr>
<tr>
<td>real-time PCR</td>
<td>yes</td>
<td>34</td>
</tr>
<tr>
<td>antibody ELISA</td>
<td>yes</td>
<td>5</td>
</tr>
<tr>
<td>isolation in cell culture</td>
<td>yes</td>
<td>2</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?

   Yes
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
<table>
<thead>
<tr>
<th>Name of the new test or diagnostic method or vaccine developed</th>
<th>Description and References (Publication, website, etc.)</th>
</tr>
</thead>
</table>

**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>THE NETHERLANDS</td>
<td>techniques for culturing C. psittaci.</td>
<td>training in our BSL3 lab</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?

Yes
<table>
<thead>
<tr>
<th>Title of the study</th>
<th>Duration</th>
<th>Purpose of the study</th>
<th>Partners (Institutions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plat4m-2Bt-psittacosis: an integrated human-veterinary approach</td>
<td>4 years</td>
<td>In this project, a ‘one health’ web-based framework that facilitates the exchange of epidemiological, clinical and molecular data from both human and animal cases of psittacosis will be constructed, evaluated and implemented to improve source finding by infectious disease control professionals</td>
<td>RIVM Utrecht, The Netherlands CVI Lelystad, The Netherlands Ghent University GD Deventer, The Netherlands Orbits Medical Center, Sittard, The Netherlands Stichting PAMM, Veldhoven, The Netherlands Amsterdam University GGD Midden Nederland, The Netherlands</td>
</tr>
<tr>
<td>Host-pathogen interactions in specific pathogen-free chickens following aerogenous infection with Chlamydia psittaci and Chlamydia abortus</td>
<td>1 year</td>
<td>study of the pathology and immune response of C. psittaci and C. abortus in chickens</td>
<td>K. Sachse. FLI Jena, Germany</td>
</tr>
</tbody>
</table>

**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: 9


   Cindy De Boeck. Isabelle Kalmar, Annelien Dumont, Daisy Vanrompay. Longitudinal monitoring for respiratory
pathogens in broiler chickens reveals co-infection of Chlamydia psittaci and Ornithobacterium rhinotracheale. Journal of Medical Microbiology, 64, 565-574.


Paul Tavernier, DVM, Stanislas U. Sys, MD, PhD, Kris De Clercq, DVM, MSc Ilse De Leeuw, MSc, Anne Brigitte Caij, Ir Miet De Baere, Ir, PhD, Nick De Regge, Ir, PhD, David Fretin, PhD, Virginie Roupie, PhD, Marc Govaerts, DVM, Paul Heyman, BSc, Daisy Vanrompay, DVM, PhD, Lizi Yin, DVM, PhD, Isabelle Kalmar, DVM, PhD, Vanessa Suin, PhD, Bernard Brochier, DVM, PhD, Alexandre Dobly, PhD, Stéphane De Craeye, Ir, PhD, Sophie Roelandt, DVM, MSc, Els Goossens, DVM, PhD and Stefan Roels, DVM, PhD. Serologic screening for 13 infectious agents in roe deer (Capreolus capreolus) in Flanders. Infection, Ecology & Epidemiology, 2015, 5: 29862.

b) International conferences: 5


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
14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

Yes

a) Technical visits: 1
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>a</td>
<td>The Netherlands</td>
<td>1</td>
</tr>
<tr>
<td>a</td>
<td>The Netherlands</td>
<td>1</td>
</tr>
</tbody>
</table>

15. Does your laboratory have a Quality Management System certified according to an International Standard?

No

<table>
<thead>
<tr>
<th>Explain Quality Management System in adoption process or currently in place</th>
</tr>
</thead>
<tbody>
<tr>
<td>internal quality management system</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

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2014, Chapter 1.1.3a)

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?

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

<table>
<thead>
<tr>
<th>Title of the project or contract</th>
<th>Scope</th>
<th>Name(s) of relevant OIE Reference Laboratories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host-pathogen interactions in specific pathogen-free chickens following aerogenous infection with <em>Chlamydia psittaci</em> and <em>Chlamydia abortus</em></td>
<td>pathogenesis and immune response</td>
<td>FLI Jena, Germany (K. Sachse)</td>
</tr>
</tbody>
</table>

**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*
### Purpose for inter-laboratory test comparisons

<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>real-time PCR</td>
<td>about 25</td>
<td>□ Africa</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Americas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Asia and Pacific</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Europe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ 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?

No

25. Additional comments regarding your report: