

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-21 13:04:28

| | |
|--|---|
| Name of disease (or topic) for which you are a designated OIE Reference Laboratory: | Avian chlamydiosis |
| Address of laboratory: | 14 rue Pierre et Marie Curie 94701 Maisons-Alfort Cedex, FRANCE |
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| Website: | |
| Name (including Title) of Head of Laboratory (Responsible Official): | Dr Pascal Boireau |
| Name (including Title and Position) of OIE Reference Expert: | Dr Karine Laroucau |
| 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 | | | |
| - | - | 0 | 0 |
| Direct diagnostic tests | | | |
| PCR | yes | 271 | 208 |
| Isolation | yes | 4 | 0 |

**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.) |
|--|---|
| New genotyping tools for <i>C. psittaci</i> (PCR-HRM) | Manuscript in preparation |

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?

Yes

| Name of OIE Member Country seeking assistance | Date (month) | No. samples received for provision of diagnostic support | No. samples received for provision of confirmatory diagnoses |
|---|---------------|--|--|
| UNITED KINGDOM | December 2020 | 175 | 0 |
| ECUADOR | July 2020 | 31 | 0 |
| UNITED STATES OF AMERICA | July 2020 | 0 | 2 |

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 |
|--|-----------|---|-------------------------|---|
| Research and typing of Chlamydiaceae in ruminants, domestic and wild birds in Mexico: what is the risk for humans? | 36 months | Detection and genotyping of Chlamydia strains | UNAM, INIFAP | MEXICO |

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: |
|--|
| Genotyping data about <i>C. psittaci</i> , <i>C. gallinacea</i> and <i>C. avium</i> in a large number of bird species. |

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: |
|---|
| See publications |

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: 8

Crispo M, Blakey J, Shivaprasad HL, Laroucau K, Vorimore F, AAziz R, Bickford A, et Stoute ST. 2020.

"Chlamydiosis in a Gouldian finch (*Chloebia gouldiae*)."
Avian Diseases 64 ((2)):216-222. doi: doi:

10.1637/0005-2086-64.2.216.

Floriano, A. M., S. Rigamonti, F. Comandatore, E. Scaltriti, D. Longbottom, M. Livingstone, K. Laroucau, A. Gaffuri, S. Pongolini, S. Magnino, et N. Vicari. 2020. "Complete Genome Sequence of *Chlamydia avium* PV 4360/2, Isolated from a Feral Pigeon in Italy."
Microbiol Resour Announc 9 (16). doi: 10.1128/MRA.01509-19.

Holzer, M., L. M. Barf, K. Lamkiewicz, F. Vorimore, M. Lataretu, A. Favaroni, C. Schnee, K. Laroucau, M. Marz, et K. Sachse. 2020. "Comparative Genome Analysis of 33 *Chlamydia* Strains Reveals Characteristic Features of *Chlamydia Psittaci* and Closely Related Species."
Pathogens 9 (11). doi: 10.3390/pathogens9110899.

Laroucau, K., R. Aaziz, A. Lecu, S. Laidebeure, O. Marquis, F. Vorimore, S. Thierry, A. Briend-Marchal, J. Miclard, A. Izembart, N. Borel, et L. Redon. 2020. "A cluster of *Chlamydia serpentis* cases in captive snakes."
Vet Microbiol 240:108499. doi: 10.1016/j.vetmic.2019.108499.

Laroucau, K., N. Ortega, F. Vorimore, R. Aaziz, A. Mitura, M. Szymanska-Czerwinska, M. Cicerol, J. Salinas, K. Sachse, et M. R. Caro. 2020. "Detection of a novel Chlamydia species in captive spur-thighed tortoises (*Testudo graeca*) in southeastern Spain and proposal of *Candidatus Chlamydia testudinis*." *Syst Appl Microbiol* 43 (2):126071. doi: 10.1016/j.syapm.2020.126071.

Ornelas-Eusebio, E., G. Garcia-Espinosa, F. Vorimore, R. Aaziz, B. Durand, K. Laroucau, et G. Zanella. 2020. "Cross-sectional study on Chlamydiaceae prevalence and associated risk factors on commercial and backyard poultry farms in Mexico." *Prev Vet Med* 176:104922. doi: 10.1016/j.prevetmed.2020.104922.

Pichon, N., L. Guindre, K. Laroucau, M. Cantaloube, A. Nallatamby, et S. Parreau. 2020. "Chlamydia abortus in Pregnant Woman with Acute Respiratory Distress Syndrome." *Emerg Infect Dis* 26 (3):628-629. doi: 10.3201/eid2603.191417.

Wang, H., J. K. Jensen, A. Olsson, F. Vorimore, R. Aaziz, L. Guy, P. Ellstrom, K. Laroucau, et B. Herrmann. 2020. "Chlamydia psittaci in fulmars on the Faroe Islands: a causative link to South American psittacines eight decades after a severe epidemic." *Microbes Infect.* doi: 10.1016/j.micinf.2020.02.007.

b) International conferences: 0

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 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: 0

d) Internships (>1 month): 1

| 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 |
|--|---|---|
| d | Mexico | 1 |

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) |
|-----------------------------------|---|
| ISO17025 | Attestation 1-2246 révision 19_201204.pdf |

16. Is your quality management system accredited?

Yes

| Test for which your laboratory is accredited | Accreditation body |
|--|--------------------|
| PCR Chlamydiacea | COFRAC |

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?

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 |
|--|--------------------------------|---|
| PCR proficiency | 5 | <input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" 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?

Yes

| Kind of consultancy | Location | Subject (facultative) |
|---------------------|----------|---|
| Expertise | France | Solicitation from OIE Sub Regional Office for Central Asian |

25. Additional comments regarding your report:

The current global health situation related to coronavirus has severely limited work and exchanges during this period.