

# OIE Reference Laboratory Reports Activities

## *Activities in 2020*

**This report has been submitted : 2021-02-10 09:43:01**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Campylobacteriosis
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Prof. Jaap A. Wagenaar, DVM, PhD, Dipl ECVM
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Prof. Jaap A. Wagenaar, DVM, PhD, Dipl ECVM
<b>Which of the following defines your laboratory? Check all that apply:</b>	Governmental 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

Diagnostic Test	Indicated in OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
no	no	0	0
Direct diagnostic tests			
Culture (primary or as isolate)	yes	16	7
nahE real-time PCR (van der Graaf et al., 2013)	yes	2	7
Whole Genome Sequencing (WGS)	no	10	0
Maldi-Tof	no	14	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?

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

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
UNITED STATES OF AMERICA	Advice and assistance for culturing of novel <i>Campylobacter infans</i> species	E-mail and shipment of strains
PAKISTAN	Advice and assistance for culturing, isolation and identification of <i>Campylobacter</i> species	E-mail and shipment of DNA

***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
Whole genome sequencing of <i>Campylobacter</i> species	ongoing	Whole genome sequencing of <i>Campylobacter</i> species	USDA	UNITED STATES OF AMERICA
<i>Campylobacter</i> in the poultry meat production chain	ongoing	Descriptive epidemiology of <i>Campylobacter</i> in the poultry production chain in Sri Lanka	Vet School in Peradeniya	SRI LANKA
Bioinformatics approach and molecular analysis to identify <i>Campylobacter fetus</i> subspecies markers	ongoing	Study the host specificity and virulence of <i>C. fetus</i> subspecies	Universitas Gadjah Mada, Yogyakarta (UGM)	INDONESIA
WHO Global Food Borne Infections Network (WHO- GSS)	ongoing	WHO-Capacity building program	Global collaboration	SWITZERLAND

***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?

No

If the answer is no, please provide a brief explanation of the situation:
The lab did not report as this is the responsibility of the submitting country.

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

No

If the answer is no, please provide a brief explanation of the situation:
The lab did not report as this is the responsibility of the submitting country.

**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: 4

Fuat AYDIN, Murat ABAY, Ayhan ATASEVER, Latife ÇAKIR, Emre KARAKAYA, Seçil ABAY, Görkem EKEBAŞ, Hamit Kaan, Kadir Semih, Linda van, Kadir Serdar. Ovine Abortion Associated with *Campylobacter fetus* subsp. *fetus* ST2

in Turkey. Kafkas Univ Vet Fak Derg, 26 (4): 557-562, 2020. DOI: 10.9775/kvfd.2019.23769

Flipse J, Duim B, Wallinga JA, de Wijkerslooth LRH, Graaf-van Bloois LV, Timmerman AJ, Zomer AL, Veldman KT, Wagenaar JA, Bloembergen P. A Case of Persistent Diarrhea in a Man with the Molecular Detection of Various Campylobacter species and the First Isolation of *Campylobacter infans*. Pathogens. 2020 Nov 30;9(12):1003. doi: 10.3390/pathogens9121003. PMID: 33265947; PMCID: PMC7761484.

Mughini-Gras L, Pijnacker R, Coipan C, Mulder AC, Fernandes Veludo A, de Rijk S, van Hoek AHAM, Buij R, Muskens G, Koene M, Veldman K, Duim B, van der Graaf-van Bloois L, van der Weijden C, Kuiling S, Verbruggen A, van der Giessen J, Opsteegh M, van der Voort M, Castelijin GAA, Schets FM, Blaak H, Wagenaar JA, Zomer AL, Franz E. Sources and transmission routes of campylobacteriosis: A combined analysis of genome and exposure data. J Infect. 2020 Dec 1:S0163-4453(20)30733-7. doi: 10.1016/j.jinf.2020.09.039. Epub ahead of print. PMID: 33275955.

Mulder AC, Franz E, de Rijk S, Versluis MAJ, Coipan C, Buij R, Muskens G, Koene M, Pijnacker R, Duim B, Bloois LVG, Veldman K, Wagenaar JA, Zomer AL, Schets FM, Blaak H, Mughini-Gras L. Tracing the animal sources of surface water contamination with *Campylobacter jejuni* and *Campylobacter coli*. Water Res. 2020 Sep 20;187:116421. doi: 10.1016/j.watres.2020.116421. Epub ahead of print. PMID: 32992147.

b) International conferences: 0

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 1

Update of OIE Terrestrial Manual: Chapter on bovine genital campylobacteriosis

[https://www.oie.int/fileadmin/Home/eng/Health\\_standards/tahm/3.04.04\\_BGC.pdf](https://www.oie.int/fileadmin/Home/eng/Health_standards/tahm/3.04.04_BGC.pdf)

**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?

No

**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	ISO_17025_2005.pdf
ISO 9001:2015	ISO_9001_2015.pdf

16. Is your quality management system accredited?

No

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

No

*(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?

Not applicable (Only OIE Reference Lab. designated for disease)

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?

Not applicable (Only OIE Reference Lab. designated for disease)

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?

Not applicable (Only OIE Reference Lab. designated for disease)

**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 <sup>1</sup>	No. participating laboratories	Region(s) of participating OIE Member Countries
Performance for culture	3	<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?

No

25. Additional comments regarding your report:

In addition to ToR7 "Scientific and technical training":  
Because of Covid most planned activities were cancelled.