

OIE Reference Laboratory Reports Activities

Activities in 2019

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Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Campylobacteriosis
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Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Jaap A. Wagenaar, DVM, PhD, Dipl ECVM
Name (including Title and Position) of OIE Reference Expert:	Prof. Jaap A. Wagenaar, DVM, PhD, Dipl ECVM
Which of the following defines your laboratory? Check all that apply:	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		Nationally	Internationally
-	-	-	-
Direct diagnostic tests		Nationally	Internationally
Culture (primary or as isolate)	yes	1485	56
nahE real-time PCR (van der Graaf et al., 2013)	yes		31
Whole Genome Sequencing (WGS)	no	2	14
Maldi-Tof	no	4	24
Amplified Fragment Length Polymorphism (AFLP)	yes	1	
Real-time PCR (Josefsen et al. 2004)	no	522	
Campylobacter 16S PCR (Inglis et al. 2003)	no	1	1
16S sequencing	no	1	

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?

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
INDIA	February 2019	0	1
UNITED STATES OF AMERICA	February 2019	0	2
INDIA	April 2019	0	12
SPAIN	April 2019	0	19
BELGIUM	April 2019	0	1
AUSTRIA	May 2019	0	1
FRANCE	November 2019	0	2

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
INDIA	Advice and assistance for culturing, isolation and identification of Campylobacter species	E-mail and shipment of strains
SPAIN	Advice and assistance for identification of Campylobacter fetus subspecies	E-mail and shipment of strains
AUSTRIA	Advice and assistance for identification of Campylobacter fetus subspecies with whole genome sequencing	E-mail
ARGENTINA	Advice and assistance for identification of Campylobacter fetus subspecies	E-mail
PAKISTAN	Advice and assistance for culturing, isolation and identification of Campylobacter species	E-mail and shipment of strains

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

Yes

If the answer is yes, please provide details of the data collected:
The metadata of the isolates is collected

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:
If the collected isolates are used in studies, the metadata of the isolates is used in presentations on conferences and/or described in 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: 2

Differentiation of *Campylobacter fetus* Subspecies by Proteotyping

Emele, M. F., Karg, M., Hotzel, H., van der Graaf - van Bloois, L., Groß, U., Bader, O. & Zautner, A. E., 3 Jun 2019, In : European journal of microbiology & immunology. 9, 2, p. 62-71 10 p.

Living in Cold Blood: *Arcobacter*, *Campylobacter*, and *Helicobacter* in Reptiles.

Gilbert MJ, Duim B, Zomer AL, Wagenaar JA. Front Microbiol. 2019 May

15;10:1086. doi: 10.3389/fmicb.2019.01086. eCollection 2019. Review. PubMed PMID:31191467; PubMed Central PMCID: PMC6530492.

b) International conferences: 1

Campylobacter, Helicobacter and Related Organisms (CHRO) 2019. Belfast, Ireland, 8-11 September 2019

c) National conferences: 1

The Scientific Spring Meeting. Royal Dutch Society of Microbiology (KNMV) and the Dutch Society of Medical Microbiology. Arnhem, the Netherlands. 26-27 March 2019

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: 1

c) Hands-on training courses: 1

d) Internships (>1 month): 0

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
b	China	30
c	China	12

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	Wageningen Bioveterinary Research (WBVR).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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
CHRO 2019	September 2019	Belfast, Ireland	Speaker	Time-resolved genomic phylogeny of <i>Campylobacter fetus</i> isolates from different hosts
OIE Sub-Regional Conference on AMR Related Research and Information	March 2019	Bangkok, Thailand	Speaker	Practical aspects of antimicrobial stewardship in animal production.
OIE Sub-Regional Conference on AMR Related Research and Information	March 2019	Bangkok, Thailand	Speaker	How to motivate farmers and veterinarians to change practice regarding antimicrobial use

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 ¹	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?

Yes

Kind of consultancy	Location	Subject (facultative)
no	no	no

25. Additional comments regarding your report: