

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 31 janvier 2025 18:11

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Scrapie	
*Address of laboratory:	3851 Fallowfield Road, Ottawa, Ontario, K2J 4S1, CANADA	
*Tel:	+1-343 212 02 72	
*E-mail address:	gordon.mitchell@inspection.gc.ca	
Website:	www.inspection.gc.ca	
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Abed Harchaoui, Laboratory Network Director, Animal Health, CFIA	
*Name (including Title and Position) of WOAH Reference Expert:	Dr. Gordon Mitchell, Head, National and WOAH Reference Laboratory for Scrapie and CWD	
*Which of the following defines your laboratory? Check all that apply:	Governmental	

TOR1: DIAGNOSTIC METHODS

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 WOAH Manual (Yes/No)	Total number of tes	
Indirect diagnostic tests		Nationally	Internationally
Direct diagnostic tests		Nationally	Internationally
PrP ELISA	Yes	2869	0
PrP Immunohistochemistry	Yes	17	0
PrP Western Blot	Yes	4	0

WOAH Reference Laboratory Reports Activities 2024



PRNP Genotyping	Yes	310	0

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members? Yes

Type of reagent available	Related diagnostic test	Produced/ provide		Amount supplied internationally (ml, mg)		Country of recipients
Tissue Homogenates	PrP ELISA / PRNP Genotyping	Provide	Multiple	Multiple	3	BRAZIL, CANADA, UNITED STATES OF AMERICA,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAH Members?

No

TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?

No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

No

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAH Members?

No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?

Yes

Name of the WOAH Member Country receiving a technical consultancy	Purpose	How the advice was provided
BRAZIL	TSE diagnostic testing	Email
ARGENTINA	TSE diagnostic testing	Email
UNITED STATES OF AMERICA	Diagnostic testing and transmission	Virtual meeting



TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAH Member Countries involved other than your country
Genetic approaches and tools to prevent, control, and eradicate TSEs	Ongoing	Developing genetic and diagnostic tools to manage scrapie	Washington State University, USDA	UNITED STATES OF AMERICA

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH?

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

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

Data arising from all surveillance and disease investigation-associated diagnostic testing is collected.

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

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

Case data from all disease positive herds or regions is collated and communicated to regulatory agencies.

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

1

Yilmaz G, Morrill T, Pilot W, Ward C, Mitchell G, Soutyrine A, Dan H, Lin M, Guan J. Optimization of RT-QuIC Assay Duration for Screening Chronic Wasting Disease in White-Tailed Deer. Vet. Sci. 2024; 11(2), 60.

b) International conferences:



Raihan T, Hemmerling KM, Galloway NL, Sargent GA, Wild MA, Schroeder GM, Powers JG, McCann BE, Ernest HB, Edwards W, Malmberg JL, Wright W, Mitchell GB, Dewey SR, Taus NS, Schnider DA, and Mousel MR. Genomic Cartography of the North American Elk Using Genotype-by-Sequencing Approach. International Plant and Animal Genome Conference, San Diego, CA, 2024.

Jerez-Garrido N, Fernández-Borges N, Canoyra S, Moreno AM, Benestad SL, Andreoletti O, Mitchell G, Balachandran A, Villa-Diaz A, Torres JM and Espinosa JC. Chronic wasting disease in bovine-PrP transgenic mice propagates with different prion strain features. 12th Iberian Prion Congress, Spain, 2024.

c) National conferences:

1

Arifin MI, Staskevicius A, Pilot W, Guan J, Mitchell G. An overview of genotyping for CWD and Scrapie resistance. Canadian Animal Health Laboratorians Network 22nd Annual Meeting, Ottawa, Canada, 2024

d) Other (Provide website address or link to appropriate information):

1

Information on Scrapie in Canada: https://inspection.canada.ca/en/animal-health/terrestrial-animals/diseases/reportable/scrapie

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
	ASB_CTF_15367-CFIA-Certificate_v2_2022-	ASB_CTF_15367-CFIA-Certificate_v2_2022-
ISO/IEC 17025:2017	08-29.pdf	08-29.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PrP Immunohistochemistry	Standards Council of Canada (SCC)
PrP ELISA	SCC
PrP Western blot	SCC
PRNP Genotyping	SCC

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

WOAH Reference Laboratory Reports Activities 2024



The Ottawa Laboratory Fallowfield, Canadian Food Inspection Agency, has a dedicated Biosafety Officer who manages the biosafety, biocontainment, biosecurity, and health and safety portfolios for the laboratory. The OLF holds valid Human Pathogens and Toxins Act (HPTA) licences, administered by the Public Health Agency of Canada, for all of the facilities where work with regulated materials is performed. As a condition of the licences, OLF must ensure compliance with the Canadian Biosafety Standard, which details the physical and operational requirements for Containment Level 2 and 3 laboratories, including Prion facilities. As well, many of the activities at OLF are further regulated by the CFIA's Office of Biohazard Containment and Safety. In order to demonstrate compliance to both these regulatory bodies, the Biosafety Officer regularly submits performance and verification testing results for the recertification of the containment facilities, and participates in on-site inspections by the federal biosafety regulators.

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?

No

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease? Yes

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen? No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen during the past 2 years?

No

26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen during the past 2 years?

Yes Purpose for inter- laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAH Member Countries
PrP Immunohistochemistry	Organizer	2	PrP Immunohistochemistry	CANADA, UNITED

WOAH Reference Laboratory Reports Activities 2024



proficiency testing				STATES OF AMERICA,
PrP ELISA proficiency testing	Organizer	6	PrP ELISA	CANADA,
PRNP Genotyping proficiency testing	Organizer	2	PRNP Genotyping	CANADA,

TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOAH?

Yes

Kind of consultancy	Location	Subject (facultative)
Responding to specific technical queries from WOAH	Via Email	Clarification sought on items related to a review of the Scrapie Terrestrial Code Chapter

29. Additional comments regarding your report:

No