

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-19 10:56:02

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Scrapie
Address of laboratory:	Centro de Investigación en Encefalopatías y Enfermedades Transmisibles Emergentes Universidad de Zaragoza Miguel Servet, 177 50013 Zaragoza SPAIN
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Name (including Title) of Head of Laboratory (Responsible Official):	Dra. Marta Monzón
Name (including Title and Position) of OIE Reference Expert:	Prof. Juan José Badiola Díez Catedrático de Sanidad Animal. Director del Centro de Investigación en Encefalopatías y Enfermedades Transmisibles Emergentes
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

Diagnostic Test	Indicated in OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
BioRad TeSeE ELISA	Sí	489	-
IDEXX herdCheck Scrapie/BSE antigen test kit, EIA ELISA	Sí	5872	-
Direct diagnostic tests		Nationally	Internationally
Histopatología	Sí	97	-
Inmunohistoquímica	Sí	97	-

**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?

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
Programa operativo de Cooperación Territorial España-Francia-Andorra (POCTEFA) 2014-2020 REDPRION	3 años	Red de investigación transfronteriza en enfermedades priónicas humanas y animales.	Universidad de Zaragoza, INRA Toulouse, Universidad de Barcelona y Autónoma de Barcelona, CIC BioGUNE.	SPAIN FRANCE

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:
Los datos se recogen y envían al Ministerio de Agricultura, Pesca y Alimentación.

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:
Los datos recogidos se envían al Ministerio de Agricultura, Pesca y Alimentación para su difusión y divulgación.

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

1. López-Pérez Ó, Toivonen JM, Otero A, Solanas L, Zaragoza P, Badiola JJ, Osta R, Bolea R, Martín-Burriel I. Impairment of autophagy in scrapie-infected transgenic mice at the clinical stage. Lab Invest. 2020 Jan;100(1):52-63. doi: 10.1038/s41374-019-0312-z.

2. Guijarro IM, Garcés M, Marín B, Otero A, Barrio T, Badiola JJ, Monzón M. Neuroimmune response in natural preclinical scrapie after Dexamethasone treatment. Int J Mol Sci. 2020 Aug 12;21(16):5779. doi: 10.3390/ijms21165779.

3. Barrio T, Filali H, Otero A, Sheleby-Elías J, Marín B, Vidal E, Béringue V, Torres JM, Groschup M, Andréoletti O, Badiola JJ, Bolea R. Mixtures of prion substrains in natural scrapie cases revealed by ovinised murine models. Sci Rep. 2020 Mar 19;10(1):5042. doi: 10.1038/s41598-020-61977-1

4. Guijarro IM, Garcés M, Andrés-Benito P, Marín B, Otero A, Barrio T, Carmona M, Ferrer I, Badiola JJ, Monzón M. Assessment of glial activation response in the progress of natural scrapie after chronic Dexamethasone treatment. *Int J Mol Sci.* 2020 May 2;21(9):3231. doi: 10.3390/ijms21093231.

5. López-Pérez O, Badiola JJ, Bolea R, Ferrer I, Llorens F, Martín-Burriel I. An update on autophagy in prion diseases. *Front Bioeng Biotechnol.* 2020; 8: 975. Published online 2020 Aug 27. doi: 10.3389/fbioe.2020.00975

b) International conferences: 0

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 2

1. Defensa de una tesis doctoral titulada "Valoración de la respuesta inflamatoria en un modelo de Scrapie como prototipo de enfermedad priónica" por Isabel Guijarro Torvisco (18 de Septiembre de 2020).

2. También se han impartido otros cursos y conferencias dirigidos a investigadores, veterinarios, ganaderos, asociaciones de consumidores y público en general. También se ha proporcionado información a través de los medios de comunicación (periódicos, revistas, radio y televisión).

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)
UNE-EN ISO/IEC 17025:2017	PE_05.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISA BIORAD	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
ELISA IDEXX	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
HISTOPATOLOGÍA	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
INMUNOHISTOQUÍMICA	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)

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?

No

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
Comprobar la capacidad de los laboratorios participantes de diagnosticar correctamente muestras para prurigo lumbar, mediante el empleo de técnicas de diagnóstico rápido autorizadas en la UE.	18	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Determinar la aptitud de un laboratorio para efectuar pruebas de diagnóstico del prurigo lumbar (como parte del programa de acreditación de dicho laboratorio).	2	<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)
Colaboración en la revisión del OIE Terrestrial Manual Chapter on Scrapie	Correo electrónico	OIE Terrestrial Manual Chapter on Scrapie.

25. Additional comments regarding your report:

Tras la oferta de colaboración formulada por nuestro laboratorio a varios países, se mantiene el contacto para la potencial colaboración con los laboratorios responsables del diagnóstico de Prurigo lumbar de Paraguay y Perú, que han solicitado la realización de una estancia en nuestro laboratorio de los responsables del diagnóstico de Encefalopatías espongiformes transmisibles, mediante la cual recibirán formación en el diagnóstico de BSE y Prurigo lumbar.

Como comentario general debe tenerse en cuenta que en este año 2020 la Pandemia Covid-19 ha reducido de

forma importante las actividades previstas en varios países de Latinoamérica, así como la anulación de la mayoría de los congresos previstos sobre enfermedades priónicas lo que ha afectado a la actividad de nuestro laboratorio.