

WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 24 avril 2023 18:07

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	AFRICAN SWINE FEVER
Address of laboratory:	Avda. Puerta de Hierro s/n
Tel.:	672454464
E-mail address:	jmvizcaino@ucm.es
Website:	https://www.visavet.es/
Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Dr. José Manuel Sánchez-Vizcaino
Name (including Title and Position) of WOAHO Reference Expert:	Prof. Dr. José Manuel Sánchez-Vizcaino
Which of the following defines your laboratory? Check all that apply:	Academic institution

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)

No

TOR2: REFERENCE MATERIAL

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

No

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

No

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOA Members?

No

TOR3: NEW PROCEDURES

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

Yes

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

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
DIVA test for ASF vaccine	Patent pending

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

Yes

NAME OF THE NEW VACCINE DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

NAME OF THE WOA MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
DOMINICAN (REP.)	Advice on ASF control and eradication	Chile Advice on ASF control and eradication Phone calls, emails
JAPAN	Advice on ASF control and eradication	Internship
ITALY	Advice on ASF control and eradication	Personal advice

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOA 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
VADCIVA Project	3 years	Development of a safe and effective vaccine against ASF virus for	European ASF reference laboratory (CISA-INIA-	SPAIN

domestic pigs and wild
boar

CSIC)

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:

The data collected is reflected in the published articles mentioned below

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:

The data collected is reflected in the published articles mentioned below

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:

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Cadenas-Fernández E., Ito S., Aguilar-Vega C., Sanchez-Vizcaino JM., Bosch J. "The role of the wild boar spreading African swine fever virus in Asia: another underestimated problem". *Frontiers in veterinary science*, 9:844209. 04/2022.

Ito S., Bosch J., Martinez-Aviles M., Sanchez-Vizcaino JM. "The Evolution of African Swine Fever in China: A Global Threat?". *Frontiers in veterinary science*, 9:828498. 03/2022.

de la Torre A., Bosch J., Sanchez-Vizcaino JM., Ito S., Munoz-Perez C., Iglesias-Martin I., Martinez-Aviles M. "African Swine Fever Survey in a European Context". *Pathogens*, 11(2):137. 01/2022

Munoz-Perez C., Bosch BJ., Ito S., Martinez-Aviles M., Sanchez-Vizcaino JM. "Quantitative Risk Assessment of African Swine Fever Introduction into Spain by Legal Import of Live Pigs". *Pathogens*, 11(1):76. 01/2022

b) International conferences:

10

Cadenas-Fernández E., Ito S., Aguilar-Vega C., Sanchez-Vizcaino JM., Bosch J. "The role of the wild boar spreading African swine fever virus in Asia: another underestimated problem". *Frontiers in veterinary science*, 9:844209. 04/2022.

Ito S., Bosch J., Martinez-Aviles M., Sanchez-Vizcaino JM. "The Evolution of African Swine Fever in China: A Global Threat?". *Frontiers in veterinary science*, 9:828498. 03/2022.

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Munoz-Perez C., Bosch BJ., Ito S., Martinez-Aviles M., Sanchez-Vizcaino JM. "Quantitative Risk Assessment of African Swine Fever Introduction into Spain by Legal Import of Live Pigs". *Pathogens*, 11(1):76. 01/2022

c) National conferences:

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Barroso-Arevalo S. y Sanchez-Vizcaino JM. Nuevos avances en la investigación de la vacuna contra la Peste Porcina Africana. III Congreso Hispano-Luso de Ganadería Extensiva, Cooperativas Agroalimentarias de España, Federación de Agrupaciones de Defensa Sanitaria Ganadera, Asociación de Productores del Sur de Portugal, Unión de ADS del Alentejo, Cáceres, España, 1 de diciembre de 2022.

(Comunicación oral)

Sanchez-Vizcaino JM. La vacuna frente a PPA, cada día más cerca. XLI Congreso Anaporc, Asociación Nacional de Porcinocultura Científica, Granada, España, 29 de diciembre de 2022. (Comunicación oral)

Porras N., Rodríguez-Bertos A., Barasona JA., de Pablo-Moreno J. y Sanchez-Vizcaino JM. Peste porcina africana en el jabalí: estudio histopatológico de las alteraciones del sistema linfoide. XXXIII Reunión de la Sociedad Española de Anatomía Patológica Veterinaria, Sociedad Española De Anatomía Patológica Veterinaria, Lugo, España, 16 de junio de 2022. (Comunicación oral)

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

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit :

b) Seminars : 87

c) Hands-on training courses:

d) Internships (>1 month) 2

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
Seminars	Countries from Europe, Asia and America	3
Internship	Japan	2

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO-17025		Acreditacion.png

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PCR	817/LE1410 ENAC

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

Yes

TOR9: SCIENTIFIC MEETINGS

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

Yes

NATIONAL/ INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	VACDIVA Policy Event	Horizcience	2022-11-29	Madrid, Spain	60

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

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
International Congress for Veterinary Virology ESVV 2022	2022-09-22	Belgium	Speaker	History of African Swine Fever, Europe & Asia
International Congress for Veterinary Virology ESVV 2022	2022-09-22	Belgium	Poster	Potential Target Antigens for Development of a DIVA Assay Accompanying a Prototype Marker Vaccine for ASFV
International Congress for Veterinary Virology ESVV 2022	2022-09-22	Belgium	Poster	Safe and rapid method for sampling African swine fever virus genome and its inactivation in animals skin and environmental samples
International Congress for Veterinary Virology ESVV 2022	2022-09-22	Belgium	Short communication	Vaccination Strategy Framework Against African Swine Fever in Wild Boar
International Symposium on Wild Boar and Other Suids	2022-09-10	Spain	Short communication	A cartographical tool for managing African swine fever based on the most relevant parameters related to African Swine Fever in European wild boar
International Symposium on Wild Boar and Other Suids	2022-09-10	Spain	Short communication	The Evolution of African Swine Fever in Asia: An underestimated but urgent issues
XXXIII Reunión de la Sociedad Española de Anatomía Patológica Veterinaria	2022-06-10	Spain	Short communication	Peste porcina africana en el jabalí: estudio histopatológico de las alteraciones del sistema

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Yes

24. Are you a member of a network of WOAHP Reference Laboratories designated for the same pathogen?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS/ ORGANISING WOAHP REF. LAB.
Interlaboratory test	Participant	39	26 NRLs from UE member states 9 NRLs from Europe non UE member states (Moldova, Serbia, Montenegro, North Macedonia, Bosnia& Herzegovina,

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP Reference Laboratories designated for the same pathogen?

No

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

Yes

TITLE OF THE PROJECT OR CONTRACT	SCOPE	NAME(S) OF RELEVANT WOAHP REFERENCE LABORATORIES
862874-VACDIVA H2020	To develop a safe and effective vaccine against ASFv for domestic pigs and wild boar	European ASF reference laboratory (CISA-INIA-CSIC)

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

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

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOAHP Member Countries
Interlaboratory test	Participant	39	Europe

TOR12: EXPERT CONSULTANTS

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

29. Additional comments regarding your report:

Our expert consultants are always available to the WOA