

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 24 avril 2024 05:57

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Equine influenza
Address of laboratory:	Equine Research Institute, Japan Racing Association 1400-4 Shiba, Shimotsuke, Tochigi 329-0412 JAPAN
Tel.:	+81-285 44.0090
E-mail address:	manabu_nemoto@jra.go.jp
Website:	https://japanracing.jp/en/about/jra_organization/jeri.html
Name (including Title) of Head of Laboratory (Responsible Official):	Toshiyuki Takahashi DVM, PhD, Director
Name (including Title and Position) of WOAHO Reference Expert:	Manabu Nemoto DVM, PhD
Which of the following defines your laboratory? Check all that apply:	Horse racing authority

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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
Haemagglutination Inhibition		12	0
Direct diagnostic tests			
Real-time RT-PCR		539	0

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?

No

5. Did your laboratory supply vaccines to WOAHO Members?

No

TOR3: NEW PROCEDURES

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

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
Application of a microfluidic immunofluorescence assay kit for the detection of equine influenza virus antigen	Kawanishi N, Kinoshita Y, Kambayashi Y, Bannai H, Tsujimura K, Yamanaka T, Cullinane A, Nemoto M. Performance of a microfluidic immunofluorescence assay kit for equine influenza virus antigen detection. J Equine Vet Sci. 2023. 131:104956.

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAHP MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Antigenic characterisation of Florida sublineage clade 1 strains	2022-	To evaluate the effectiveness of vaccines against recently circulating Florida sublineage clade 1 strains	- Irish Equine Centre - Gluck Equine Research Center, University of Kentucky	IRELAND UNITED STATES OF AMERICA

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

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:

- We performed RT-PCR for equine influenza using nasal swabs collected from febrile racehorses in Japan, and they were all negative.
- We imported recent strains from abroad and performed the antigenic characterisation.

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:

We submitted the data to the WOAHP expert surveillance panel on equine influenza vaccine composition.

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:

2

1. Nemoto M, Reedy SE, Yano T, Suzuki K, Fukuda S, Garvey M, Kambayashi Y, Bannai H, Tsujimura K, Yamanaka T, Cullinane A, Chambers TM. Antigenic comparison of H3N8 equine influenza viruses belonging to Florida sublineage clade 1 between vaccine strains and North American strains isolated in 2021-2022. *Arch Virol.* 2023. 168:94.
2. Kawanishi N, Kinoshita Y, Kambayashi Y, Bannai H, Tsujimura K, Yamanaka T, Cullinane A, Nemoto M. Performance of a microfluidic immunofluorescence assay kit for equine influenza virus antigen detection. *J Equine Vet Sci.* 2023. 131:104956.

b) International conferences:

2

- WOAHA expert surveillance panel on equine influenza vaccine composition
- Webinar on Equine Influenza, WOAHA Regional Representation for Asia and the Pacific

c) National conferences:

0

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

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 0

b) Seminars : 1

c) Hands-on training courses: 0

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	JAPAN	19

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	PDF	L22-702.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Haemagglutination Inhibition	Perry Johnson Laboratory Accreditation (PJLA)
Conventional RT-PCR	Perry Johnson Laboratory Accreditation (PJLA)

20. Does your laboratory maintain a "bio-risk 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 WOAHP?

No

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

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
Webinar on Equine Influenza, WOAHP Regional Representation for Asia and the Pacific	2023-05-31	On-line meeting	Speaker	Vaccines for Equine influenza and recent developments

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. Do you network (collaborate or share information) with other WOAHP Reference Laboratories designated for the same pathogen?

No

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
WOAHP expert surveillance panel on equine influenza vaccine composition	Evaluation of vaccine efficacy against recently circulating strains	- Irish Equine Centre - Gluck Equine Research Center, University of Kentucky

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?

No

TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)
Participant at STAR-IDAZ workshop	On-line meeting	Influenza research roadmap – diagnostic tests development

29. Additional comments regarding your report:

No