

WOAH Reference Laboratory Reports Activities 2024

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Rabies
*Address of laboratory:	177 Hyeoksin 8-ro Gimcheong-si Gyeongsangbuk-do 39660
*Tel:	+82 54 912.0785
*E-mail address:	yangdk@korea.kr
Website:	
*Name (including Title) of Head of Laboratory (Responsible Official):	Jung-hee Kim (Commissioner of Animal and Plant Quarantine Agency: APQA)
*Name (including Title and Position) of WOAH Reference Expert:	Dong-Kun Yang (Senor scientist of Animal and Plant Quarantine Agency: APQA)
*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 test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Virus Neutralization test(FAVN)	Yes	14	0
Direct diagnostic tests		Nationally	Internationally
RT-PCR	Yes	134	0

TOR2: REFERENCE MATERIAL

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

No

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

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHP 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 WOAHP Standards for the designated pathogen or disease?

No

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)
CaniShot RV-F	Rabies bait vaccine for raccoon dogs we commercialized with cooperation of Chung-Ang vaccine Ltd company

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?

Yes

Name of the WOAHP Member Country receiving a technical consultancy	Purpose	How the advice was provided
VIETNAM	Rabies control in Vietnam	Presentation including Q&A

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

No

TOR6: EPIZOOLOGICAL DATA

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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 collected rabies data from countries such as Kazakhstan, Malaysia, Vietnam, Srilanka, Phillippines and Mongolia and shared it with WOAHP member countries to support the eradication of rabies in Asia

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 disseminated sero-epidemiological data to WOAHP member countries , that may conduct sero-surveillance of rabies. Sero-epidemiological data (or seroprevalence data) were released through WOAHP diagnostic workshops attended by seven countries.

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

A global perspective on oral vaccination of wildlife against rabies (Journal of Wildlife Diseases, 2024 Apr 1;60(2):241-284)

b) International conferences:

0

c) National conferences:

8

- 1) Distributing rabies bait vaccine (technical education, Chung-Ang vaccine Ltd company, 2 October, 2024)
- 2) Transfer of technical training for development of rabies serum diagnostic kit (technical education, Bionote Ltd company)
- 3) Rabies serology level management conference (Chung-Ang vaccine, Komipharm, Korea BNP, APQA seoul regional, 18 December, 2024)
- 4) Protective antibody response in Korean raccoon dogs (*Nyctereutes procyonoides koreensis*) administered a new rabies bait vaccine containing the ERAGS-GFP strain - Oral presentation (Oral, Korea Society of Veterinary Pathology, 27 September, 2024)
- 5) Evaluation of the rabies therapeutic effectiveness using rabies monoclonal antibodies against rabies in animals (Poster, Korean Society of Veterinary Science, 17-19 October, 2024)
- 6) Therapeutic effectiveness of rabies monoclonal antibodies in animal (Poster, FAVA-Federation of Asian Veterinary Association Congress, 25-27 October, 2024)
- 7) International Standards for rabies antibody testing in dogs and cats technology and training transfer (APQA newsletter, Vol.52, 2024)
- 8) Information session on improving rabies vaccines (Chung-Ang vaccine, Komipharm, Korea BNP, Ctc vac, Woogene B&G, Grees cross veterinary products (Zoom meeting, 18 December, 2024)

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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 WOA Members?

Yes

a) Technical visit : 0

b) Seminars : 82

c) Hands-on training courses: 12

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	THAILAND	60
B	CAMBODIA	2
B	INDONESIA	3
B	LAOS	2
B	PHILIPPINES	3
B	VIETNAM	2
B	VIETNAM	10
C	MALAYSIA	2
C	MONGOLIA	2
C	SRI LANKA	1
C	SINGAPORE	2
C	KAZAKHSTAN	2
C	THAILAND	1
C	PHILIPPINES	2

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management	Certificate scan (PDF)	
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system adopted	JPG, PNG format)	
ISO/IEC 17025:2017	PDF	(영문 인정서)KT372_Animal_and_Plant_Quarantine_Agency_PM_Eng_20241121.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
DFA	KOLAS
RT-PCR	KOLAS
FAVN	KOLAS
ELISA	KOLAS

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

Yes

According to the ISO/IEC 17025, we manage the biorisk by APQA

TOR9: SCIENTIFIC MEETINGS

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

No

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

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
Asia Pacific Rabies conference to eradicate rabies	2024-07-14	Thailand(Bangkok)	Short communications (ask the pro)	Rabies diagnosis and additional for rabies control

TOR10: NETWORK WITH WOA?H REFERENCE LABORATORIES

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

Yes

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

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOA?H REF. LABS
RABLAB meeting/Rabies	Participant	15	Rachel-Tidman, Changchun tu, Israel KVI, Conrad, Christine Fehlner-Gardiner, June Antonio Montano Hirose, Monal Daptardar, Claude Sabeta,(UP, RSA), Thomas Muller, Boris Yakobson, Ai-Ping Hsu, ryan.

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

No

ANSES in France no longer performs rabies serum quality control

26. Did your laboratory collaborate with other WOA 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 WOA Reference Laboratories for the same pathogen during the past 2 years?

No

ANSES in France no longer performs rabies serum quality control

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Eradication of rabies	Online	WOAH RABLAB meeting

29. Additional comments regarding your report:

Yes

Since the last rabies outbreak in 2014, the Republic of Korea (ROK) has remained rabies-free for 10 years, with no reported cases. We have organized conference meeting in collaboration with seven industry partners to advance rabies vaccine development and have disseminated related research through conference publications. In ROK, the rabies bait vaccine developed by our laboratory, targeting wild raccoons, received product approval in 2024 and is now being distributed twice a year, in spring and fall. We will conduct monitoring and surveillance to eradicate rabies in the ROK.