

# WOAH Reference Laboratory Reports Activities 2025

This report has been submitted: 14 janvier 2026 07:08

## LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAHO 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):	Dr. Dong-Kun Yang (Senor scientist of Animal and Plant Quarantine Agency: APQA)
*Name (including Title and Position) of WOAHO Reference Expert:	Dr. 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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
Virus Neutralization test (FAVN)	Yes	14	0
Direct diagnostic tests			
RT-PCR	Yes	134	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?

## 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 WOAHO Standards for the designated pathogen or disease?

No

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

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

## 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
LAOS MONGOLIA VIETNAM	Diagnosis and eradication of rabies in Asia	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

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 related data from countries such as Mongolia, Taiwan, Viet Nam, Thailand, Sri Lanka, Laos and Philippines 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 epidemiological data to WOAHP member countries including Laos, Mongolia, Viet Nam, Thailand, Malaysia, Singapore, Sri Lanka to assist eradication of rabies in Asia in the workshop that was hold iin Animal and Plant Quarantine Agency

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) Yang DK, Kim C, Kim J, Yeo J, Yoo S, Won H, Lee JY, Lee HJ, Cho YS. Protective antibody response in Korean raccoon dogs (*Nyctereutes procynoide koreensis*) administered a new rabies bait vaccine containing the ERAGS-GFP strain. *Clin Exp vaccine Res*, 2025, 14(2):149-156

2) Yang DK, Lee JY, Kim MU, Lee HJ, Cho YS. Evaluation of the safety and immunogenicity of the ERAGS-GFP oral rabies vaccine in dogs. *Clin Exp vaccine Res*, 2025, 14(3):e29.

b) International conferences:

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c) National conferences:

4

- 1) Strategy to eliminate rabies in Asian countries (FAVA's Asian rabies cleanup Task force, 23, March, 2025)
- 2) Rabies serology level management conference (Chung-Ang vaccine, Komipharm, Korea BNP, APQA Seoul regional, 28, May, 2025)
- 3) Transfer of technical training for International Rabies Proficiency testing (technical education, Green Cross Ltd company, 20, Nov, 2025)
- 4) Rabies bait vaccine using ERAGS-GFP: a safe GFP expressing recombinant for wild life and dogs (Korean association of zoonosis, 21, Nov, 2025)

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

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## 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 : 62
- b) Seminars : 15
- c) Hands-on training courses: 9
- 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
A	LAOS	50
A	MONGOLIA	12
B	VIETNAM	15
C	LAOS	2
C	SRI LANKA	2
C	SINGAPORE	2
C	THAILAND	2
C	MALAYSIA	1

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/IEC 17025	pdf	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.

## 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	location	Role (speaker, presenting poster, short communications)	Title of the work presented
United Against Rabies	2025-10-05	Bangkok	short communication	Online participant

## 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

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAHP 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 WOAHP Reference Laboratories designated for the same pathogen during the past 2 years?

No

*Instead of the inter-laboratory proficiency test organized by ANSES, we participated the inter-laboratory proficiency test by University of Missouri.*

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?

No

## 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 during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAHP Member Countries
ETC	participant	41	2025 University of Missouri Rabies serology proficiency test	KOREA (REP. OF),

## TOR12: EXPERT CONSULTANTS

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

Yes

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

29. Additional comments regarding your report:

**Dong-Kun Yang - - KOREA\_(REP\_OF)**

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Yes

*Since the last rabies outbreak in 2014, the Republic of Korea (ROK) has remained rabies-free for 12 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 and commercialized by our laboratory, targeting wild raccoon dogs, received product approval in 2024 and is now being distributed twice a year, in spring and fall. We have been conducted monitoring and surveillance to maintain rabies-free status in the ROK.*