

# WOAH Reference Laboratory Reports Activities

## 2022

### Activities in 2022

This report has been submitted : 25 avril 2023 13:12

#### Laboratory Information

<b>Name of disease (or topic) for which you are a designated WOA Reference Laboratory:</b>	Rabies
<b>Address of laboratory:</b>	Hyeoksin 8-ro 177, Gimcheon-si, Gyeongsangbuk-do, Republic of Korea
<b>Tel.:</b>	+82549120785
<b>E-mail address:</b>	yangdk@korea.kr
<b>Website:</b>	-
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dong-Kun Yang
<b>Name (including Title and Position) of WOA Reference Expert:</b>	Dr. Dong-Kun Yang (Research Officer)
<b>Which of the following defines your laboratory? Check all that apply:</b>	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 WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Virus Neutralization test	Yes	332	
Direct diagnostic tests		Nationally	Internationally
Direct fluorescence assay	Yes	3	

#### TOR2: REFERENCE MATERIAL

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

No

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

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAH 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 WOAH 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.)
Rabies bait vaccine using ERAGS-GFP	Korean Society of Virology, 109

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

No

### **TOR4: DIAGNOSTIC TESTING FACILITIES**

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

No

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

Yes

NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
UNITED STATES OF AMERICA	prevention of rabies in wild animals	sharing my published paper related to oral rabies vaccine with e-mail
GERMANY	list of diagnostic method	providing published papers associated with rapid diagnostic kit by e-mail

### **TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

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

No

### **TOR6: EPIZOOLOGICAL DATA**

14. Did your Laboratory collect epidemiological data relevant to international disease control?

No

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

No

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:

0

-

b) International conferences:

0

-

c) National conferences:

5

- 1) Development of rabies bait vaccine strain named as ERAGS-GFP using reverse genetic system (The Korean Society of virology)
- 2) Strategies for developing rabies and Japanese encephalitis vaccine in animals (Konkum University)
- 3) Technique transfer about rabies antibody test (blocking ELISA) (Median diagnostic Ltd Company & Basic science Ltd company)
- 4) Current status and prospects of bait vaccine development for wild animals (Seoul National University)
- 5) Laboratory preparation and training for internationally recognized rabies serology (Neodin Ltd company)

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 : 1

c) Hands-on training courses: 0

d) Internships (&gt;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	Malaysia	2
b	Kazakhstan	5

b	Philippines	10
b	Sri Lanka	4
b	Viet Nam	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	jpg	2020.10.20 ISO17025 certificate (YangDK).jpg

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 WOA?

No

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

No

## TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

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

Yes

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

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOA REF. LABS/ ORGANISING WOA REF. LAB.
RABLAB	participants	10	whole reference lab

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

pathogen?

No

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?

Yes

TITLE OF THE PROJECT OR CONTRACT	SCOPE	NAME(S) OF RELEVANT WOA Reference LABORATORIES
RABLAB zoom meeting	Eradicate dog-mediated rabies	whole reference laboratories for rabies worldwide

## 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?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOA Member Countries
preparation for rabies serological proficiency test	organizer	1	Asia and Pacific

## TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

*As you may know, it was hard to visit to WOA member countries due to the continuous pandemic situation of COVID-19. Instead of the visit or participate the international conferences, we provided web-seminar to WOA member countries. Also, we had planned to provide reference reagent(Non-WOA approved, DFA positive control) to Brunei, but it was impossible as the direct flights disappeared due to COVID-19.*

*When it comes to rabies vaccine, 6 Korean biologic companies have been produced rabies vaccine and provided it to vet clinic. So, my lab has focused on development of new rabies vaccine.*

*When it comes to laboratory proficiency test, rabies serology proficiency test was performed by ANCES in France until 2 years ago. However, the ANCES is no longer conducting the test. Therefore, the rabies serology proficiency test cannot be recognized. To my knowledge, IAEA is scheduled to conduct the test, but no announcement has been made yet.*