

# **WOAH Reference Laboratory Reports Activities**2024

This report has been submitted: 30 janvier 2025 13:02

# LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Rabies
*Address of laboratory:	KVAFSU-CVA Rabies Diagnostic Laboratory Department of Microbiology Veterinary College Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU) Hebbal, Bengaluru 560024 INDIA
*Tel:	+91-80 29.53.22.87
*E-mail address:	rdlkvafsucva@gmail.com
Website:	
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Shrikrishna Isloor, Laboratory Director & Professor KVAFSU-CVA Rabies Diagnostic Laboratory. Department of Microbiology Veterinary College Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU) Hebbal, Bengaluru 560024 INDIA
*Name (including Title and Position) of WOAH Reference Expert:	Dr. Shrikrishna Isloor, Laboratory Director & Professor KVAFSU-CVA Rabies Diagnostic Laboratory. Department of Microbiology Veterinary College Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU) Hebbal, Bengaluru 560024 INDIA
*Which of the following defines your laboratory? Check all that apply:	Governmental 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)

Yes

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Immnochromatography (LFA)	No	374	



			0
Direct diagnostic tests		Nationally	Internationally
Direct Fluorescent Antibody (DFA)	Yes	320	0
Rapid Fluorescent Focus inhibition Test (RFFIT)	Yes	671	0
PCR	Yes	61	0

# **TOR2: REFERENCE MATERIAL**

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

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?

Nc

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?

No

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?

Vac

Name of the WOAH Member Country receiving a technical consultancy	Purpose	How the advice was provided
	A Regional Training Workshop on	
	Rabies Diagnosis for the South-	
	East Asia Region was held from	
	October 21st to 25th, 2024, at the	
	Department of Neurovirology,	



**BHUTAN** 

#### Shrikrishna Isloor - - INDIA

WHO Collaborating Centre for Reference & Research in Rabies, NIMHANS, Bangalore. Organized in partnership with the WOAH Reference Laboratory for Rabies, Department of Veterinary Microbiology at the Veterinary College, KVAFSU, Bangalore, the "REGIONAL TRAINING workshop received support from WORKSHOP ON RABIES the World Health Organization DIAGNOSIS FOR SOUTH-EAST (WHO) and the World ASIA" Organized by Department of Organization for Animal Health **Neurovirology National Institute** (WOAH). The workshop aimed to of Mental Health and equip participants with essential Neurosciences (NIMHANS), knowledge, practical skills, and Bangalore and KVAFSU-CVA collaborative networks to enhance Rabies Diagnostic Laboratory, rabies diagnosis, surveillance, and Department of Veterinary control efforts across the South-Microbiology, Veterinary College East Asia Region, in alignment KVAFSU, Bangalore. 21st –25th with the One Health approach. October, 2024 Supported by the Objectives 1. Enhance laboratory | World Health Organization (WHO) diagnostic capacity for rabies in and the World Organization for endemic SEA countries 2. Improve Animal Health (WOAH) rabies surveillance capabilities on the ground, leading to enhanced disease detection, reporting, and control 3. Establish a foundation for implementing IBCM as an advanced rabies surveillance method 4. Foster networking and coordination among rabies diagnostic laboratories within the region 5. Facilitate collaboration between human and animal rabies diagnostic laboratories at the national and regional levels A Regional Training Workshop on Rabies Diagnosis for the South-East Asia Region was held from October 21st to 25th, 2024, at the Department of Neurovirology, WHO Collaborating Centre for Reference & Research in Rabies, NIMHANS, Bangalore. Organized in partnership with the WOAH Reference Laboratory for Rabies, Department of Veterinary Microbiology at the Veterinary College, KVAFSU, Bangalore, the "REGIONAL TRAINING

WOAH Reference Laboratory Reports Activities 2024



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WOAH Reference Laboratory Reports Activities 2024

**INDIA** 

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Organization for Animal Health

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DIAGNOSIS FOR SOUTH-EAST

ASIA" Organized by Department of Neurovirology National Institute

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Bangalore and KVAFSU-CVA



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Rabies Diagnostic Laboratory,
Department of Veterinary
Microbiology, Veterinary College
KVAFSU, Bangalore. 21st –25th
October, 2024 Supported by the
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and the World Organization for
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control efforts across the South-

East Asia Region, in alignment

with the One Health approach.

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diagnostic capacity for rabies in

endemic SEA countries 2. Improve

A Regional Training Workshop on

"REGIONAL TRAINING
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**INDONESIA** 



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A Regional Training Workshop on

Animal Health (WOAH)

MALAYSIA

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SRI LANKA

### Shrikrishna Isloor - - INDIA

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TIMOR-LESTE	Reference Laboratory for Rabies, Department of Veterinary Microbiology at the Veterinary College, KVAFSU, Bangalore, the workshop received support from the World Health Organization (WHO) and the World Organization for Animal Health (WOAH). The workshop aimed to equip participants with essential knowledge, practical skills, and collaborative networks to enhance rabies diagnosis, surveillance, and control efforts across the South- East Asia Region, in alignment with the One Health approach. Objectives 1. Enhance laboratory diagnostic capacity for rabies in endemic SEA countries 2. Improve rabies surveillance capabilities on the ground, leading to enhanced disease detection, reporting, and control 3. Establish a foundation for implementing IBCM as an advanced rabies surveillance method 4. Foster networking and coordination among rabies diagnostic laboratories within the region 5. Facilitate collaboration between human and animal rabies diagnostic laboratories at the national and regional levels	"REGIONAL TRAINING WORKSHOP ON RABIES DIAGNOSIS FOR SOUTH-EAST ASIA" Organized by Department of Neurovirology National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore and KVAFSU-CVA Rabies Diagnostic Laboratory, Department of Veterinary Microbiology, Veterinary College KVAFSU, Bangalore. 21st –25th October, 2024 Supported by the World Health Organization (WHO) and the World Organization for Animal Health (WOAH)
RUSSIA	The KVAFSU-CVA Rabies Diagnostic Laboratory, WOAH Rabies Reference Laboratory for Rabies, Department of Veterinary Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru organized an International Training on "Brain Sampling and Laboratory Diagnosis of Rabies in Dogs" from 25th – 29 th November, 2024 for two Russian participants. This training program was supported by Federal Government Budgetary Institution, "Federal Centre for Animal Health" (FGBI "ARRIAH") Vladimir, Yur'evets, Russian	International Training on Brain Sampling and Laboratory Diagnosis of Rabies in Dogs. 25 th -29 th November, 2024



rederation.		

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

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

NIO

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

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:

In this Laboratory, for detection of Rabies virus from brain samples of various animals (Dog, Cattle, Cat, Buffalo and Bat) anti-N protein rabies monoclonal antibody based DFA are being routinely employed. During Jan-DEC, 2024, 320 brain samples of different species of animals from various states of India were tested by DFA for rabies viral inclusions. Of these, 224 were found to be positive. Serum samples (671) were tested by RFFIT to assess anti-rabies vaccinal antibody titre. Of these, 97 were found to be unprotected. This was done majorly for international movement of pets.

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

Yes

1

## If the answer is yes, please provide details of the data collected:

The details of the data has been submitted to Department of Animal Husbandry and Dairying (DAHD) and National Center for Disease Control (NCDC), Govt. of India.

- 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:

A. K. Santosh, Deepak Kumar, Charanpreet Kaur, IPriya Gupta, Pagala Jasmeen, L. Dilip, G. Kavitha, Suresh Basagoudanavar, Madhusudan Hosamani, V. Balamurugan, R. Sharada, D. Rathnamma, K. M. Sunil, Nagendra R. Hegde, Shrikrishna Isloor. 2024. "
Evaluation of the immune status of dogs vaccinated against rabies by an enzyme-linked immunosorbent assay using crude preparations of insect cells infected with a recombinant baculovirus encoding the rabies virus glycoprotein gene "Journal Plos One. PLoS ONE 19(12): e0314516

b) International conferences:



3

- 1. Participated in a Regional seminar for Focal points for Veterinary Laboratories at World Organisation for Animal Health, Tokyo, Japan, during 16-18 th July, 2024.
- 2. Participated in An International Network of Veterinary Education for sustainable Antimicrobial use and tracking antimicrobial resistance (NetVet4SAMU) at Royal Holloway University, Egypt during 6-9 th September, 2024.
- 3. Participated in Asia Pacific Rabies Meeting. Enhancing animal rabies surveillance- by capacity building. Jointly organized by World Organisation for Animal Health (WOAH) together with it regional Tripartite partners (FAO & WHO)
- c) National conferences:

2

- 1.Skill enhancement of field Veterinarians to improve surveillance of dog –mediated rabies in livestock and wildlife in Assam. Topic: Sample collection, storage, rapid testing, transport & diagnostics. Khanapara, Guwahati, 25 th & 26 th July, 2024
- 2. Conference on Advancements in Rabies and KFD research. Topic: Challenges and Advancements in Rabies Diagnosis and Control in Animals. 4th June, 2024
- 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 WOAH Members?

Yes

a) Technical visit: 3b) Seminars: 0

c) Hands-on training courses: 17

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
С	BHUTAN	2
С	BANGLADESH	2
С	INDIA	1
С	INDONESIA	2
С	MALAYSIA	3
С	NEPAL	2
С	SRI LANKA	2



С	TIMOR-LESTE	1
С	RUSSIA	2
А	JAPAN	1
А	EGYPT	1
А	THAILAND	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 17025:2017	QAI Certificate of Accreditation	Certificate-KVAFSU-CVA Rabies Diagnostic Laboratory, Bengaluru.pdf
ISO/IEC 17025:2017	QAI Scope of accreditation	Scope-KVAFSU-CVA Rabies Diagnostic Laboratory, Bengaluru.pdf

19. Is your quality management system accredited?

Ves

Test for which your laboratory is accredited	Accreditation body
Direct Fluorescent Antibody assay	Quality and Accreditation Institute, Centre for Laboratory Accreditation
Rapid Fluorescent Focus Inhibition Test	Quality and Accreditation Institute, Centre for Laboratory Accreditation
Polymerase Chain Reaction	Quality and Accreditation Institute, Centre for Laboratory  Accreditation

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

Yes

Rabies

# **TOR9: SCIENTIFIC MEETINGS**

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

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
		Department of			
		Neurovirology,			
		National Institute of			
		Mental Health and			
	"REGIONAL	Neurosciences			
	TRAINING				



International	WORKSHOP ON RABIES DIAGNOSIS FOR SOUTH-EAST ASIA"	(NIMHANS), Bangalore. Supported by the World Health Organization (WHO) and the World Organization for Animal Health (WOAH)	2024-10-20	Bengaluru	15
International	International Training on Brain Sampling and Laboratory Diagnosis of Rabies in Dogs	"Federal Centre for Animal Health" (FGRI	2024-11-24	Bengaluru	2

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

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
RABLAB meeting	2024-02-26	Online	Participant	
RABLAB meeting	2024-05-15	Online	Participant	
WOAH training to increase capacity for pandemic preparedness: Wildlife Disease investigation and mitigation of Disease transmission risks.	2024-12-08	Online	Speaker	International sample transfer from wildlife - WOAH reference Lab experience

# **TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES**

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

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

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAH REF. LABS
Rabies	Organizer	2	Federal Government Budgetary Institution, "Federal Centre for Animal Health" (FGBI "ARRIAH") Vladimir, Yur'evets, Russian Federation.



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

No

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

Nο

IV

# **TOR12: EXPERT CONSULTANTS**

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

Yes

Kind of consultancy	Location	Subject (facultative)	
Hands on Training	Bengaluru, India	Regional Training Workshop on Rabies Diagnosis for the South-East Asia	
Hands on Training	Bengaluru, India	International Training on Brain Sampling and Laboratory Diagnosis of Rabies in Dogs	

## 29. Additional comments regarding your report:

Yes

- 1. The details of activities carried out at this laboratory are already provided in the report. Further the laboratory supporting post graduate and doctoral thesis programs on Rabies
- 2. Organized a month long Free anti rabies vaccination for dogs and cats at the Veterinary College Hospital, Bengaluru. This event was supported by the Indian Immunologicals Ltd., Hyderabad.
- 3. Organized Free anti rabies vaccination for about 300 people including Undergraduate, post graduate, faculties, supporting staff and general public. The event was supported by the Dept. of community Medicine, KIMS college, Bengaluru and Medical Dispensary, Veterinary College Hebbal.
- 4.Organized a walkathon as part of World Rabies Day-2024 on the 29 th October 2024 to bring an awareness among the general public about their role in control of rabies in dogs.
- 5. Organized A rabies workshop on the 30 th October 2024 as part of World Rabies Day-2024 for the benefit of Under graduate, Post graduate students of Veterinary College, Bengaluru. This
- event was supported by National Academy of Agricultural Science (NAAS).
- 6. Organized and Participated in rabies awareness programme for the general public and students during the Mysore Dasara from 5 th to 7 th October 2024.
- 7. Organized and Participated in rabies awareness programme during 'Fodder Mela' at Veterinary college, KVAFSU, Bengaluru on 25 th October 2024 for livestock farmers, pet animal owners and students.