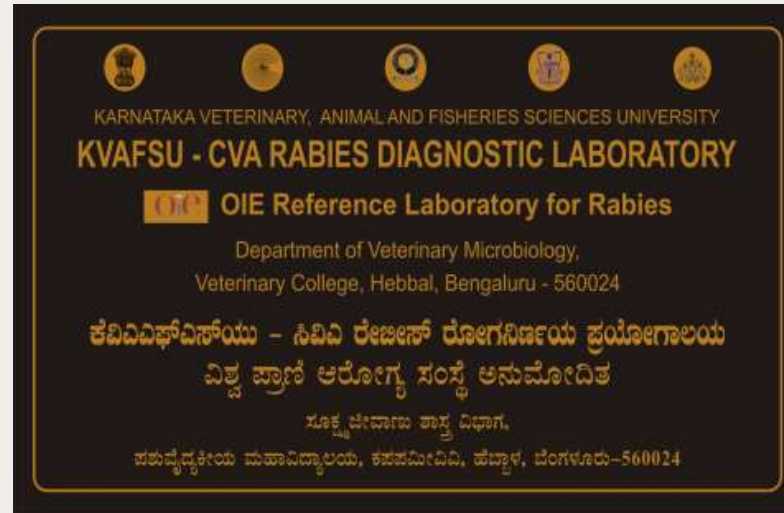


Mandates of KVAFSU - CVA Rabies Diagnostic Laboratory as WOAH Reference Laboratory for Rabies



Sharada, R.,

Associate Prof. & Quality Manager

KVAFSU-CVA Rabies Diagnostic Laboratory



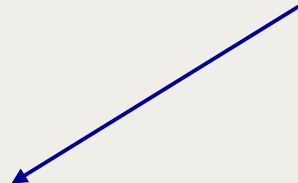
WOAH Reference Laboratory for Rabies

Dept. of Microbiology, Veterinary College, KVAFSU

Hebbal, Bengaluru, India

KVAFSU-CVA- Crucell Rabies Diagnostic Lab. Established in 2013

“Human Mab Combination for PEP of Rabies - Evaluation Versus Indian Natural Rabies Virus Strains”

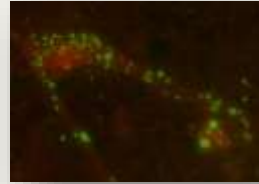


Determine G
gene sequence
of India RABV
isolates for
phylogenetic
analysis



Diagnostic surveillance

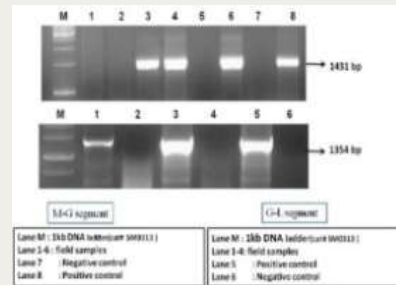
DFA



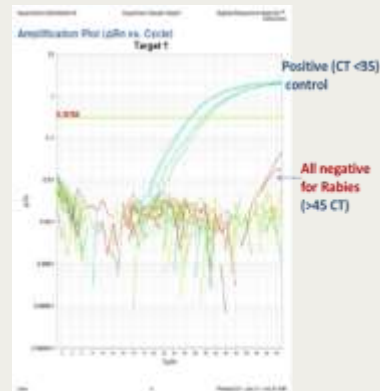
LFA



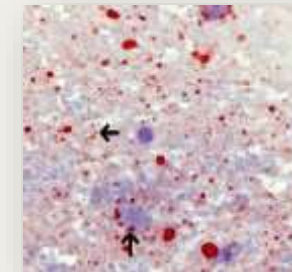
PCR
Conventional



Real time PCR



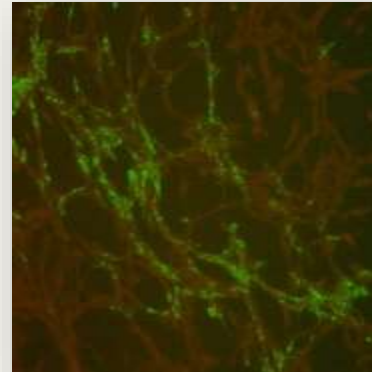
dRIT



Sero surveillance

Mass dog vaccination

- Sero monitoring of vaccinal antibodies.
- **RFFIT / FAVN /ELISA** (limited facilities to conduct RFFIT)



Specific mandate of OIE twinning: Strengthening diagnosis of rabies in India



KVAFSU- CVA - CRUCELL RABIES DIAGNOSTIC LABORATORY

OIE LABORATORY TWINNING PROJECT

2016 - 2019



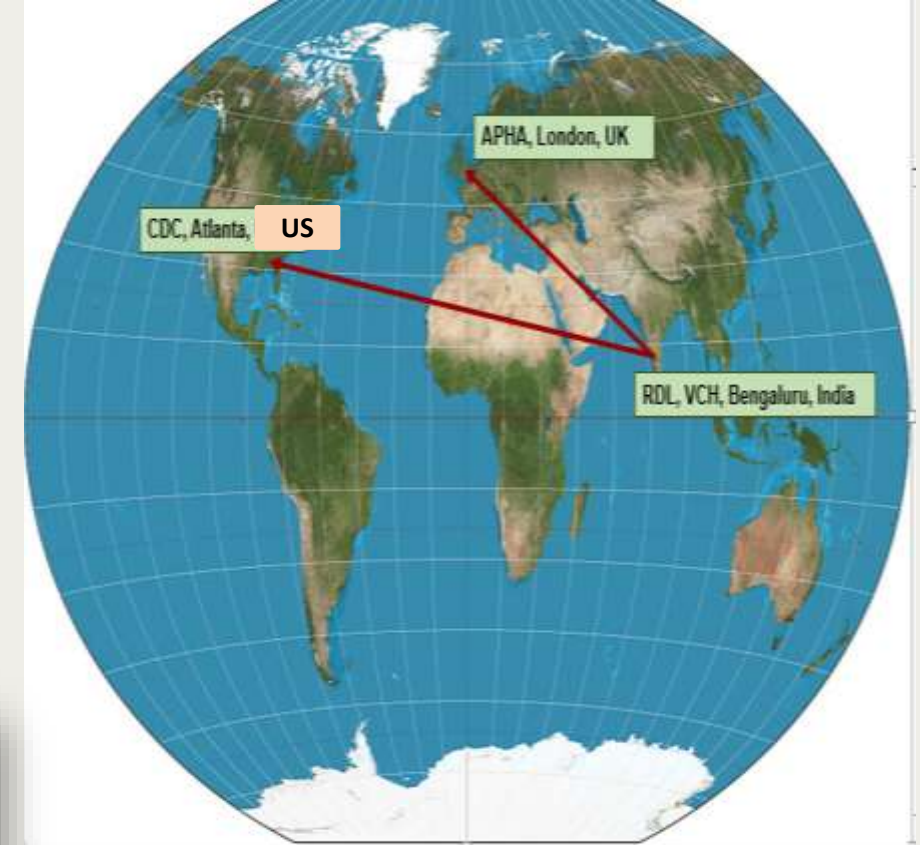
Animal & Plant Health Agency



CDC
CENTERS FOR DISEASE CONTROL AND PREVENTION

Animal and Plant Health Agency (APHA)
United Kingdom

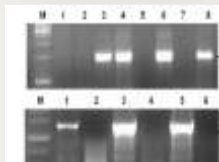
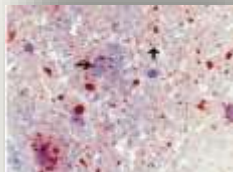
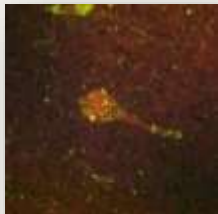
Centers for Disease Control and Prevention (CDC), Atlanta, GA, USA



Mandates of Laboratory

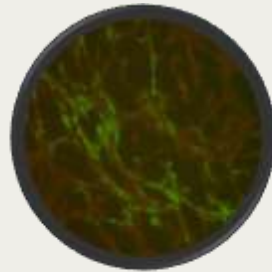
Diagnosis

- LFA
- DFA
- dRIT
- PCR
 - ✓ Conventional
 - ✓ Real time



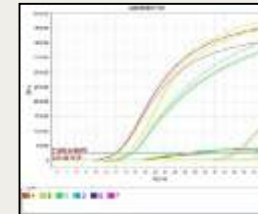
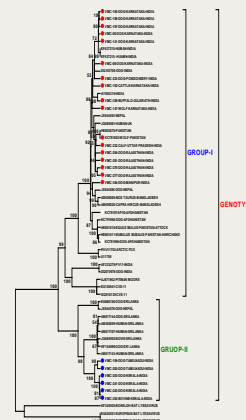
Seromonitoring

- RFFIT
 - ✓ Pet travel
 - ✓ Vaccination programme



Post Graduate & Extra mural funded Research

- Phylogenetic analysis
 - ✓ G gene
 - ✓ N gene
 - ✓ G-L intergenic region
- LAMP
- Recombinant G protein ELISA
- Development of diagnostics



Human Resource Development

- Trainings / workshops
 - ✓ KVAFSU-CVA RDL
 - ✓ On-site / Regional
 - ✓ Virtual - SAARC



... with this, animal rabies surveillance scaled up in India



Designation as WOAH Reference Lab for rabies – a mile stone



Laboratory Services to SAARC countries

- **Provide consultancy services**
 - **Test and disease consultancy**
 - **Disease surveillance on rabies and non-rabies lyssa viruses**
 - **Control strategies**
 - **Diagnostics**
- **Improving surveillance of rabies in animals**
 - **To ensure systematic surveillance - accurate reporting of rabies cases**
 - **Dog vaccination**

Building laboratory capabilities in the countries

➤ Training in all Quality assurance systems

Health & safety procedures

biosafety and biosecurity awareness & practices

➤ Knowledge transfer and training

Sample collection, Submission & Processing

Antigen detection methods,

Molecular diagnostic methods,

Antibody detection methods,

Proficiency testing,

Inter laboratory comparisons,

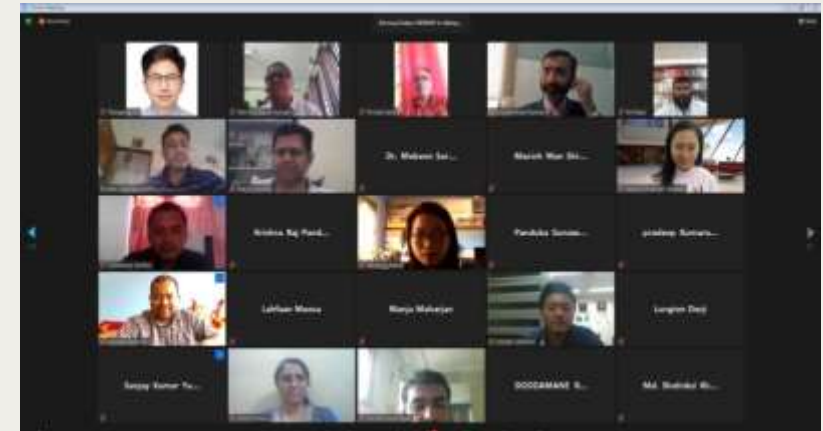
Developing quality standards

Laboratory Services to SAARC countries

- Consultancy services
- Improving surveillance
- Training in all QA systems
- Knowledge transfer
- Training



OIE Virtual Training Series on Rabies Diagnosis for SAARC Region
on 5th – 6th November 2020 (7 SAARC countries)



OIE Virtual Training Series on Rabies Serology for SAARC Region : 11th -13th Oct 2021

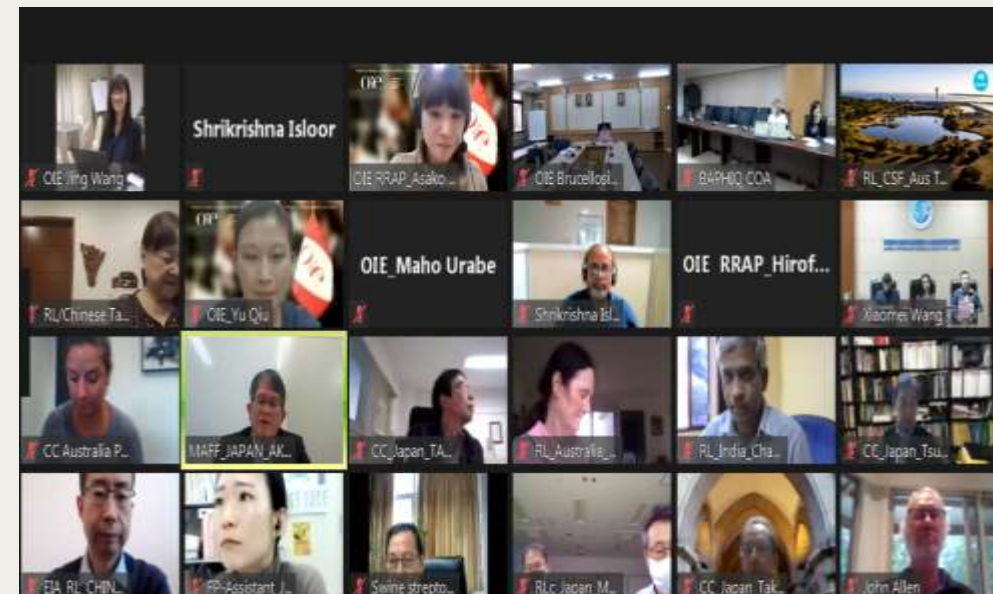
(Bangladesh, Bhutan, India, Japan, Nepal, Pakistan, Srilanka)



3rd OIE Regional Meeting for OIE Reference Centres in Asia and the Pacific 24-25 February 2021, Virtual meeting for networking and collective working in Asia & Pacific

REFERENCE LABORATORIES		
	World	Asia
RLs	285	59
Diseases	117	42
Members	37	8

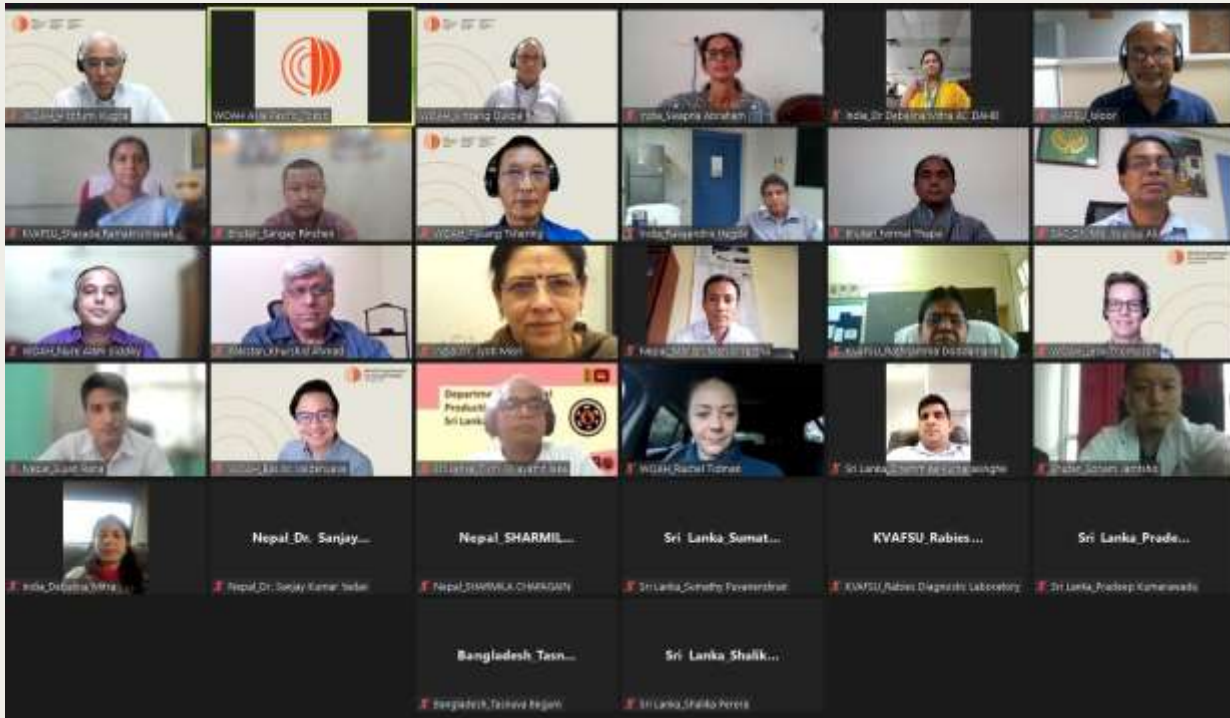
COLLABORATING CENTRES		
	World	Asia
Institutes for CCs	83	25
Topics	63	12
Members	29	6



Virtual Workshop on Proposed South Asia Rabies Lablab Network

14th July 2022


Bangladesh, Bhutan, India,
Nepal, Pakistan, Srilanka,



Regional Training of Trainers workshop on Mass Dog Vaccination

28th November to 2nd December, 2022

Bangladesh, Bhutan,
Cambodia, India, Indonesia,
Myanmar, Nepal, Philippines,
Srilanka, Thailand



Agenda
Regional Training of Trainers Workshop on Mass Dog Vaccination
28 November – 2 December 2022, Bengaluru, Karnataka, India

Time	Module	Topic	Speaker	Duration
Day 1, Monday 28 November 2022. Theme: Concepts of dog vaccination methods				
09:00 – 10:00	Intro	Opening and welcome Dr Hirafuru Kugita (recorded speech for 7 minutes) Spl. Commissioner, BHMP Director, DANYS, Karnataka Country self-introduction	WOAH, KVAFSU, NR	1hour
10:00 – 10:30		Tea break and photo session		30min
10:30 – 10:45	Intro	Workshop overview and objectives	Dr Gowri Yate	15min
10:45 – 11:05	Intro	United Against Rabies forum overview & updates	Dr Rachel Tidman, WOAH HQ	25 min
11:05 – 11:35	Intro	Endemic to eliminated - Stages of rabies control, key components, campaign design - Goa example	Dr Andy Gibson	30min
11:35 – 12:35	MDV	Experience from scaling from Municipality to State	Dr Balaji Chandrashekar	35min
12:35 – 13:00	MDV	Question session		20 mins
13:00 – 13:30		Lunch		3hr
13:30 – 14:00	App	UAR tools - Data capture & management in mass dog vaccination	Dr Fred Lohr	30min
14:00 – 14:30	WOAH	WOAH's activities on rabies and UAR national strategy template	Dr Kinzang Dikpa, WOAH RRAP	30 min
14:30 – 15:00	MDV	National, provincial & district MDV planning - STARC	Dr Andy Gibson	30 min
15:00 – 15:15		Tea		15min
15:15 – 16:00	MDV	Hand catching – Videos from Goa and Mumbai	Julie Cormat	45 minutes
16:00 – 17:00	App	App demonstration and practical session, give logins	Dr Fred Lohr	1 hour

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WOAH Sub-Regional Training Workshop on Animal Rabies Diagnosis for South Asia

18th to 21st January, 2023

Bangladesh, Bhutan, India,
Nepal, Srilanka, Zambia



Harmonization of rabies surveillance in the SAARC region is an immediate need

Possible through...

- Networking
- Virtual training
- Laboratory training
- Strengthening Laboratory infrastructure
- Quality diagnostics
- Uniformity in Diagnostics
- Effective reporting system

**Lets join hands to Strengthen Animal Rabies Diagnosis
to make Zero Rabies by 2030 A Reality**

Thank you.

WOAH Sub-Regional Training Workshop
on Animal Rabies Diagnosis for South Asia
Veterinary College, KVAFSU, Bengaluru, India
18 – 21 January, 2023



World Organisation
for Animal Health
Founded as OIE

