

## Serosurveillance and molecular epidemiology of bovine herpesvirus 1 (BoHV-1) infection in bovines of North Eastern states of Mizoram, Meghalaya and Tripura

S S Patil, D Hemadri, K P Suresh and H Rahman

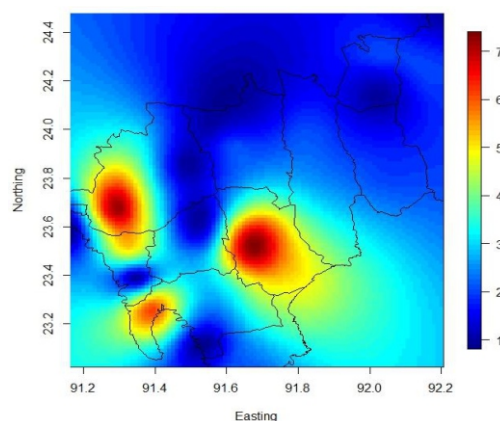
Infectious Bovine Rhinotracheitis (IBR) is a highly contagious, infectious respiratory disease that is caused by Bovine Herpesvirus-1 (BHV-1). It can affect young and older cattle. In addition to causing respiratory disease, the virus can cause conjunctivitis, abortions, encephalitis, and generalized systemic Prevalence of IBR in North Eastern States of India

infections. Disease outbreaks can result in severe production losses, abortion and mortality. A total of 1097 bovine sera samples from North Eastern region were tested for the presence of IBR antibodies using NIVEDI's Avidin-Biotin ELISA and prevalence was found to be 20.78%. [Table 10](#).

**Table10: Prevalence of IBR in NE India**

SN	State	District	Total	Positive	Positive percent	Positive percent
1	Tripura	South Tripura	55	25	45.45	24.29
2	Tripura	West Tripura	110	25	22.73	
3	Tripura	Dhalai	37	4	10.81	
4	Tripura	North & Unakoti	47	6	12.77	
5	Meghalaya	West Garo Hills	94	20	21.28	16.27
6	Meghalaya	Jaintia Hills	10	0	0.00	
7	Meghalaya	East Khasi Hills	10	1	10.00	
8	Meghalaya	Ri-Bhoi	15	0	0.00	
9	Assam	Dhubri	40	4	10.00	7.35
10	Assam	Kamrup	38	2	5.26	
11	Assam	Morigaon	20	2	10.00	
12	Assam	Nagaon	111	8	7.21	
13	Assam	Goalpara	19	1	5.26	17.72
14	Sikkim	North District	8	3	37.50	
15	Sikkim	West District	27	3	11.11	
16	Sikkim	East Sikkim	36	8	22.22	
17	Sikkim	Namchi	8	0	0.00	24.75
18	Manipur	Implal East	252	69	27.38	
19	Manipur	Chandel	49	1	2.04	
20	Manipur	Thoubal	111	32	28.83	
		<b>Total</b>	<b>1097</b>	<b>228</b>	<b>20.78</b>	

The prevalence for IBR in Tripura, Meghalaya, Assam, Sikkim and Manipur is shown in table above. Highest prevalence of 24.75 if found to be in Manipur and lowest prevalence of 7.35 in Assam.



**Fig 24: Spline interpolation of IBR in Tripura**

## Serosurveillance, isolation and molecular characterization of bluetongue virus in sheep and goats of Tripura and Assam states

D Hemadri and V Balamurugan

Serum samples collected and screened by North Eastern partner were analysed and results are given below. Of the 481 serum samples collected from goats, 227 were positive. Overall percent prevalence (PP)

calculated by Bayesian method taking 92% sensitivity and 96% specificity for the screening test is given below [Table 11].

Table 11: Serological survey of bluetongue in goats in Tripura

SN	Village	Tehsil	District	PP	CI (95%)	
					Lower	Upper
1	PurbaNalchar	Melaghar	Sipahijala	27.6	10.4	47
2	Telkajala	Melaghar	Sipahijala	63.1	43.2	81.8
3	Srirampur	Salema	Dhalai	30.9	13.8	50.2
4	Chulubari	Salema	Dhalai	32.6	14.3	52.4
5	Mendi	Salema	Dhalai	77.6	59.8	92.4
6	Halalahi	Salema	Dhalai	10.2	1.1	24.5
7	Jamthumbari	Salema	Dhalai	42.7	23.4	62.7
8	Chandrapur Village	Matabari	Gomati	27.6	10.4	47
9	Dakshin Maharani	Matabari	Gomati	32.6	14.3	52.4
10	Madhya Boxonagar	Boxonagar	Sipahijala	42.4	23.1	62.6
11	PurbaGanki	Khowai	Khowai	68	48.7	85.8
12	East Sonatala	Khowai	Khowai	37.5	19.1	57.4
13	Paschim Chandpur	Hezamara	West Tripura	32.6	14.3	52.4
14	Bharat Chowdhury	Hezamara	West Tripura	57.9	38	77
15	PurbaSatnala	Dasda	Unokoti	22.5	6.6	41.2
16	Mukchari	Karbuk	South Tripura	32.6	14.3	52.4
17	Pangbari	Karbuk	South Tripura	68	48.7	85.8
18	PaschimEkchari	Karbuk	South Tripura	53	33.3	72.6
19	Abhaynagar	Hrashyamukh	South Tripura	53	33.3	72.6
20	Shivpur	Hrashyamukh	South Tripura	77.6	59.8	92.4
21	Bagaicherra	Pecharthai	Unikoti	37.5	19.1	57.4
22	UjanMachhmara	Dasda	Unikoti	73.1	54.1	89.7
23	Noagang	Panisagar	North Tripura	53	33.3	72.6
24	Jagannathbari	Teliamura	West Tripura	27.6	10.4	47
			<b>Total</b>	<b>45</b>	<b>40.1</b>	<b>50.1</b>

## National Surveillance Programme for Aquatic Animal Diseases (NSPAAD)

K P Suresh and G B Manjunatha Reddy

The Customized Web Application (CWA) is designed for capturing the baseline data of the farm and time line data and collection of biological samples and disease outbreaks for the Finfish, Crustaceans, Molluscs etc. The purpose of CWA is to deliver informatics and related predictions on aquatic animal diseases and is highly focussed onto all types of aquaculture based on data collected and collated at the village level, block level, district level, state level and national level. The process of SRS document submission and its approval was carried out by the research team of ICAR-NIVEDI.

Meeting was held in NBFGR, Lucknow to discuss the progress of the process of finalization of Data Format and the rough data entry form online. In the process of completion of the design document, ICAR-NIVEDI has designed the templates and they were also shared with NSPAAD team for review and approval. The implementation flow chart document on the maintenance process on the CWA for NSPAAD project was prepared. Deployment of the NSPAAD application with data entry functionality and login user functionality on the Demo server was done (Fig 25 & 26)

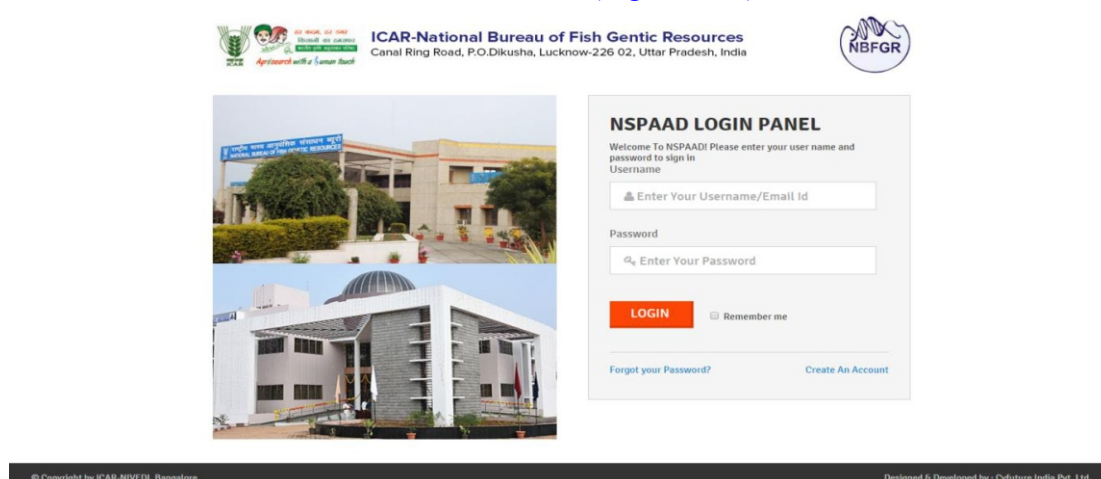


Fig 25: NSPAAD login Dynamic Panel

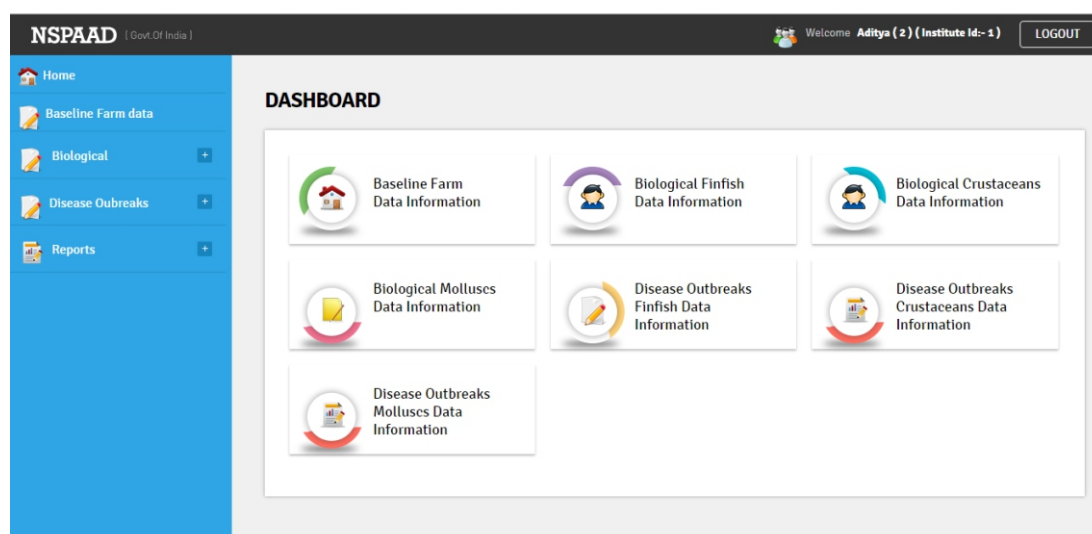


Fig 26: Home page of Customized Web Application (CWA)

## GRANT- IN- AID PROJECTS





## Brucellosis Control Programme

R Shome G B, Manjunatha Reddy and M Nagalingam

A total of 892 post vaccination serum samples from 05 states (Maharashtra=254; Chandigarh=231; and Karnataka=354, Meghalaya=36, Tamil Nadu=17) were screened for the presence of *B. abortus* S19 vaccinal anti-brucella antibodies by RBPT, SAT, iELISA and cELISA and FPA. All the samples from day 21–90<sup>th</sup> were positive by RBPT and iELISA with a varying SAT titres of 1: 2560, 1:1280, 1:640, 1:160 and 1:80 IU/ml on 14, 28, 45, 60 & 90 days of post vaccination. Whereas, FPA showed negative results from day 14, 28, 45, 60 & 90 post vaccination. On analysis of 21-60 days of post vaccination serum samples, the overall vaccine coverage of 67.30% (210/312) was recorded and highest vaccination

coverage was recorded in Tamil Nadu with limited samples assessed (82.35%) followed by Maharashtra state (74.00%) and only 20.33% & 13.85% of sero-positivity was recorded in states of Karnataka and Chandigarh, respectively (Table 12). The samples received were beyond 210 days of post vaccination where vaccinal antibodies were expected to be in the decline phase hence the actual vaccine coverage could not be deciphered in Karnataka and Chandigarh. The commercially available cELISA can be used only beyond 60 days of post vaccination as a DIVA test, whereas indigenously developed FPA test can be used from 21 days post vaccinated animals for differentiation of vaccinal versus infection antibodies.

**Table 12: Sero-monitoring of post brucellosis vaccination sera samples**

State	Post vaccination days					
	21-60	61-120	121-180	181-240	PVD NA*	Total
Tamil Nadu	14/17 (82.35%)					14/17 (82.35%)
Meghalaya		4/36 (11.11%)				4/36 (11.11%)
Karnataka	8/41 (19.51%)	4/48 (8.33%)	16/99 (16.16%)	6/26 (23.07%)	38/140 (27.14%)	72/354 (20.33%)
Chandigarh			5/55 (9.09%)	27/166 (16.26%)	0/10 (0 %)	32/231 (13.85%)
Maharashtra	188/254 (74.01%)					188/254 (74.01%)
Total	210/312 (67.30%)	8/84 (9.52%)	21/154 (13.63%)	33/192 (17.18%)	38/150 (25.33%)	310/892 (34.75%)

\*Vaccination and date of blood collection post vaccination not mentioned

## Evaluation of the immune response against graded dose of *Brucella abortus* S19 (calfhood) vaccine in bovines

R Shome, J Misri, B R Shome, P Krishnamoorthy, J Hiremath and H Rahman

*Brucella abortus* S19 is most widely used vaccine for the prevention of brucellosis in cattle and buffalo and given to female calves aged between 4 and 8 months as a single subcutaneous dose of  $5-8 \times 10^{10}$  viable organisms/2 ml. In India, the requirement of the vaccine is approximately 90 million doses annually and vaccine production capacity is up to 5-10 million doses which are largely insufficient to meet the target of Brucellosis Control Program. Hence four graded doses of  $40 \times 10^9$  CFU (full dose),  $30-40 \times 10^8$  CFU ( $1/10^{\text{th}}$  of full dose),  $15-20 \times 10^8$  CFU ( $1/20^{\text{th}}$  of full dose) and  $30-40 \times 10^7$  CFU ( $1/100^{\text{th}}$  of full dose) were evaluated in cattle calves (13 numbers / each group) and buffalo calves (5 numbers each/ group) near Pune (M/S Intervet Pvt Ltd). All the calves were screened for any pre exposure to the *B. abortus* and only healthy female calves were selected for vaccination with *B. abortus* S19 vaccine. Blood and serum samples were collected from 0, 14, 28, 45, 60, 90, 120, 180, 240 and 300 day intervals (10 collections/animal) for humoral (RBPT, SAT titres, iELISA) and cell mediated immune responses (INF- $\gamma$ , IL-6, IL-12, IL-8, TNF- $\alpha$  and CD4+ and CD8+ profile) studies.

Qualitatively all the graded doses of vaccines induced immune response between post vaccine day 14 to day 150 but showed varying vaccine induced antibody response in RBPT and iELISA by SAT (Fig.27). In the antibody detection tests (RBPT, SAT, iELISA), no significant differences were observed between full dose and  $1/10^{\text{th}}$  dose and differences were observed when full dose was compared with  $1/20^{\text{th}}$  and  $1/100^{\text{th}}$  doses.

In the present study, disappearance of vaccinal antibody was observed by all three serological tests after 240 days of post vaccination. cELISA consistently may not serve as a DIVA test from day 14 to 90 days of post vaccination as claimed in the commercial cELISA kits. In cytokine IL-8 response did not differ between the graded doses and control.

In case of CD4+ cell counts, no significant difference were observed between full dose and  $1/10^{\text{th}}$  dose and the decreased percentage of CD8+ cells cell counts were observed between full to  $1/10^{\text{th}}$ ,  $1/20^{\text{th}}$  and  $1/100^{\text{th}}$  accordance with the dose.

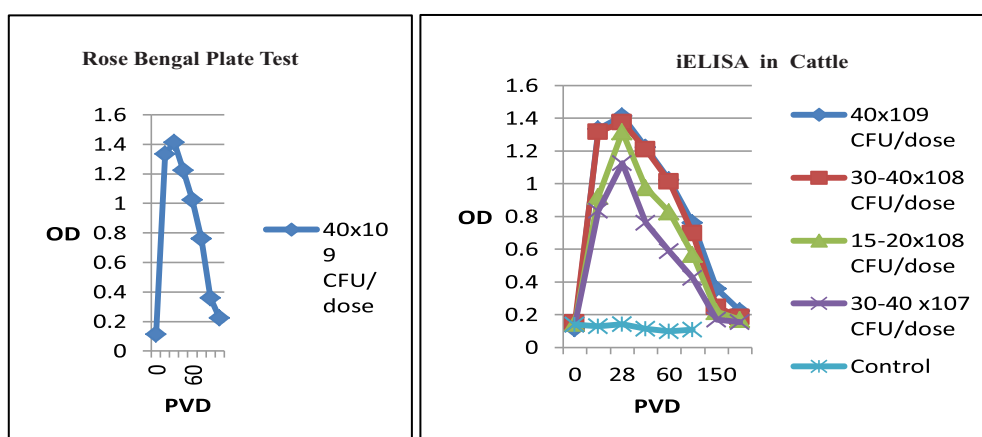


Fig 27: RBPT and Optical Densities (OD) in ELISA in graded doses at different intervals

## Prevalence of *Leptospira* Hardjo and IBR in organized dairy farms in India

V Balamurugan, S S Patil and H Rahman

Investigation was carried out to know the prevalence of *Leptospira* serovars hardjo and Infectious Bovine Rhinotracheitis (IBR) virus antibodies in organized cattle dairy farms of India by using the *Leptospira* Bovine hardjo ELISA kit and ICAR- NIVEDI AB ELISA kit for IBR, respectively. A total of 964 bovine serum samples collected from different organized farm from nine states of India [Chhattisgarh (3 farms), Gujarat (16 farms), Haryana (12 farms), Jharkhand (1 farm), Karnataka (3 farms), Maharashtra (12 farms), Punjab (20 farms), Tamil Nadu (4 farms), Telangana (9 farms)] were tested. In case of leptospirosis, the overall seroprevalence of 12.7% (122/ 964) was

observed with the high sero-positivity of 50% in Tamil Nadu, 30% in Maharashtra and least in Punjab (3.7%). The association between the history of abortion/reproductive/respiratory disorders and sero-positivity across study region is significant ( $p < 0.01$ ). However, sero-positivity is not associated across the age group of animals ( $p > 0.01$ ). In case of IBR, the overall prevalence was found to be 62.87%. The highest seropositivity was found in Tamil Nadu which was 90% (36/40), followed by Maharashtra 77.02% (114/148) and Karnataka 76.6 % (23/30). Chhattisgarh 68.42% (26/38), Gujarat 63.3% (93/147), Haryana 74.1% (83/112), Jharkhand 50% (5/10), Punjab 52.17% (96/184) and Telangana 50.8% (127/250).

IPC: ANSCNIVEDICOP201400900062

Project ID: OXX03174

## Development of diagnostic systems, reference collection and molecular epidemiology studies for important arboviral pathogens of livestock in India

D Hemadri

A total of 459 clinical samples were collected from the bluetongue outbreaks ( $n=72$ ) in nine districts of Karnataka. The clinical samples were processed in KC cells (two blind passages) and BHK 21 cells (two blind passages) for virus isolation and 94 isolates could be recovered from the clinical samples. The bluetongue virus isolates recovered from the 2014-15

outbreaks were serotyped using type specific primers. Out of 48 isolates, 30 samples were positive for BTV 1, 9 samples for BTV 2, 3 samples for BTV 23, 2 samples for BTV 10, and 4 samples for BTV 16. The samples also showed multiple serotype infections. Serotyping of remaining isolates is in progress.

## AICRP on ADMAS

All India Coordinated Research Project on Animal Disease Monitoring and Surveillance  
(AICRP on ADMAS)

D Hemadri. S S Patil and A Prajapati

To achieve the mandate of monitoring and surveillance of the livestock diseases in the country, an AICRP is functioning at the Institute with 32 centers spread across the country. A total of 85,466 disease data were received during 2015-16. Based on the data compiled during the year 2015-16 Hemorrhagic Septicemia, Foot and Mouth disease

and Fascioliasis were the top bacterial, viral and parasitic diseases in the country, respectively.

The annual review meet of AICRP on ADMAS was held at Thiruvananthapuram, Kerala during 8-9<sup>th</sup> October 2015 under the Chairmanship of Shri K.P. Mohanan, Minister for Agriculture and AH, Govt of Kerala (Fig 28 & 29).



**Fig 28: Annual review meet of AICRP on ADMAS was held at Thiruvananthapuram, Kerala during 8-9<sup>th</sup> October 2015 under the Chairmanship of Shri K.P. Mohanan, Minister for Agriculture and AH, Govt of Kerala.**



**Fig 29: Shri K.P. Mohanan, Minister for Agriculture and AH, Govt of Kerala, ADG (AH) ICAR New Delhi, Director ICAR-NIVEDI Bengaluru & participants in the meet.**



## Tribal Sub-Plan

G Govindaraj, P Krishnamoorthy, R Sridevi, R Yogisharadhya and A Prajapati

During the period under report, TSP programme was implemented in Mandya, Kolar and Raichur districts of Karnataka. The base line information on the number of households in the identified village, number of ST households and livelihood opportunities of the ST farmers were collected. The TSP beneficiaries in the identified village were selected based on the need of external assistance for family development as well as their interest in participation in the programme. The basic details of the identified ST beneficiary like address, income certificate and caste status were collected before selecting the ST families as beneficiaries under TSP.

Accordingly, 70 resource poor ST farmers from four villages benefited under this programme during 2015-16. In order to create assets and to augment income of these resource poor farmers, 210 sheep were procured and distributed. Besides, providing sheep, the health camps were also organized for treatment of the animals. In order to induce optimum growth in the distributed sheep, imparted knowledge on the sheep rearing and management through training. The mineral mixtures for better growth of the sheep were also distributed to the selected ST farmers (Fig 30-33).



**Fig 30: Distribution of Sheep to Tribal farmers in Krishna gowdanadoddi village, Malavalli taluk, Mandya district on 18<sup>th</sup> January, 2016**



**Fig 31: Distribution of Sheep to Tribal farmers in Karudubande village, Narasapura taluk, Kolar district on 14<sup>th</sup> March, 2016**



**Fig 32: Distribution of Sheep to Tribal famers in Gonwar and Iranna camp villages, Sindhanur, Raichur district on 26<sup>th</sup> March, 2016**



**Fig 33: Conducted Animal Health Camp at Krishnagowdanadoddi village, Mandya district on 23<sup>rd</sup> February 2016 and distributed mineral mixture to the tribal farmers on the occasion**



## Mera Gaon Mera Gaurav (MGMG)

MGMG programme was implemented at ICAR-NIVEDI during the year 2015-16. Around five scientific teams were constituted to implement the programme. Each team selected 4 to 5 villages in Bengaluru rural district for implementing the above programme. The brief activities undertaken by ICAR-NIVEDI under MGMG programme were established linkages with Panchayat, Anganvadi, Veterinary doctor, Milk producers union, Agricultural department, village leaders and farmers; Collected base line information of the MGMG implemented villages; organized farmers-scientists interaction meet to understand the problems of the farmers;

created awareness on the clinical symptoms of major livestock diseases and its prevention methods; distributed bleaching powder to the livestock farmer for shed/ farm sanitization; distributed farmers friendly literature on Brucellosis, Rabies and Classical Swine Fever (CSF) and provided mobile advisory service on livestock disease symptoms and its prevention, clean milk production, animal husbandry practices etc. The Jai Kisan Jai Vigyan programme was organized under MGMG programme to understand the livestock related problems of the farmers and to provide appropriate scientific solutions (Fig 34-37).



**Fig 34: “Jai Kisan Jai Vigyan” Farmers interaction meet held at ICAR-NIVEDI on 29.12. 2015**



**Fig 35: Farmers-scientists interactions meet at Kodipalya on 14.01.2016**



**Fig 36: Interaction with Assistant Agricultural Officer, Raitha Sampark Kendra, Chikkajala on 29.11.2015**



**Fig 37: Distribution of literature on brucellosis to farmers on 13.01.2016**



## Swachha Bharat Abhiyan

**Swachh Bharat Abhiyan** (*Clean India Mission*) and abbreviated as SBA or SBM for is a national campaign by the Government of India. The campaign was officially launched on 2nd October 2014 at Rajghat, New Delhi where Prime Minister Narendra Modi himself cleaned the road. It was performed in remembrance of Mahatma Gandhi's words. ICAR- NIVEDI has taken up this programme by carrying out Swachh Bharat Abhiyan every month. All the staff of NIVEDI actively participates in the Swachh Bharat Abhiyan by cleaning of the campus, personal working spaces, labs. Awareness about the Swachh Bharat Abhiyan is also carried out in different villages adopted under Mera gaon Mera Abhiyan (Fig 38-40).



**Fig 38: On and off campus cleaning drive was carried out by the staff**



**Fig 39: A motivational video on clean India was screened for Pig Farmers of Mandya District on 18-03-2016**



**Fig 40: Scientists of ICAR-NIVEDI participated in creating awareness among the farmers in Rajghatta, Konghatta and Kodihalli villages regarding importance of cleaning.**



# PUBLICATIONS



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## **Book/Book chapter/Technical bulletin/Training Manual/SOPs/Popular article**

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### Patent filed

1. Sengupta PP, Ligi M and Rahman H. 2015. *Monoclonal antibody based double antibody sandwich ELISA for the detection of Trypanosoma evansi antigen in animals* (Application No.3095/CHE/2015 dt. 20.6.2015)
2. Shome R, Krithiga N, Padmashree BS, Triveni K, Swati Sahay, Shome BR and Rahman H. 2015. *Diagnosis of human brucellosis by IgG and IgM based combo lateral flow assay*. (Application No.6641/CHE/2015).

# Capacity Building / Human Resource Development



## Programmes Organized :

### Training/ Refresher course/ Summer/ Winter school/ Seminars/ Conferences/ Symposia/ Workshops

Sl. No.	Name of Seminar /Workshop /Training	Venue	Duration (Days)	Date
1.	Basic veterinary epidemiology and outbreak investigation	ICAR-NIVEDI	5 days	06.04.2015-10.04.2015
2.	Brucellosis sensitization training program	KMF, Head Quarter, Bengaluru	1 day	10.04.2015
3.	Basic epidemiology and outbreak response	ICAR-NIVEDI	5 days	27.04.2015-01.05.2015
4.	Brucellosis sensitization training program	KMF, Head Quarter, Devanahalli	1 day	28.04. 2015
5.	Brucellosis sensitization training program	KMF office, Rajunkunte	1 day	29.04.2015
6.	DBT-network project sponsored interactive workshop on isolation and epidemiological data analysis of brucellosis	ICAR -NIVEDI	2 days	6.05. 2015-7.05. 2015
7.	Training program on Statistical Analysis System (SAS)	ICAR- NIVEDI	6 days	25.05.2015-30.05.2015
8.	Principles and concepts of livestock disease informatics and modelling in veterinary epidemiology	ICAR-NIVEDI	21 days	10.06.2015-30.06.2015
9.	Outbreak response on anthrax	ICAR-NIVEDI	5 days	16.06.2015-19.06.2015
10.	Sample strategy, data analysis and website development	AAU, Khanapara, Guwahati	2 days	16.06.2015-17.06.2015
11.	Workshop on GIS and spatial epidemiology	Co.V.Sc, Guwahati	1 day	25.07.2015
12.	Sensitization workshop on bluetongue	Gwalior	1 day	27 .08. 2015
13.	Training program on Epidemiology	ICAR- NIVEDI	5 days	12.10.2015-16.10.2015
14.	Model training course on 'Epidemiology and impact assessment of livestock diseases: concepts, application and strategies'	ICAR-NIVEDI	8 days	14.10.2015-21.10.2015
15.	Farmer's scientist interaction meet as part of "Jay Kisan Jay Vigyan"	ICAR-NIVEDI	1 day	29.10.2015
16.	Training on "Arc GIS-ERDAS for spatio-temporal disease data analysis"	ICAR- NIVEDI	4 days	02.02.2016-05.02.2016
17.	Brain storming workshop on transgenic livestock: technologies and applications	ICAR-NIVEDI	3 days	19.02.2016-20.02.2016
18.	Pig Farmers Training Program on "Farm Level Practices to Prevent Porcine Abortion and Piglet Diarrhea"	VIBSETI, Mandya, Karnataka	1day	18.03.2016
19.	Brucellosis control program-strategies ahead	ICAR -NIVEDI	2 days	18.03.2016-19.03.2016



## Programmes Participated :

### Training/ Refresher course/ Summer/ Winter school/ Seminars/ Conferences/ Symposia/ Workshops

SN	Name of the Seminar /Workshop/Training	Venue	Date	Scientist attended
1.	Epidemiology USDA sponsored Training on Basic Veterinary	ICAR-NIVEDI Bengaluru	06.04.2015-10.04.2015	Dr. G. S. Desai Dr. S.B. Shivachandra Dr. R.Sridevi
2.	2 <sup>nd</sup> meeting of diagnostic group of DBT Network Project on Brucellosis	ILLRUVAS, Hisar	05.05.2015	Dr. Rajeswari Shome
3.	Interactive workshop on Isolation and epidemiological data analysis of brucellosis	ICAR-NIVEDI, Bengaluru	06.05.2015-08.05.2015	Dr. Rajeswari Shome Dr. G. B. Manjunatha Reddy
4.	ISRO-Sponsored NNRMS course on Geographical Information System Technology and Advances	IIRS, Dehradun	05.05.2015-26.06.2015	Dr. Yogisharadhya R Dr. Awadesh Prajapati
5.	Scrub Typhus Diagnostic Training Workshop	Manipal University, Manipal, Karnataka	01.06.2015-04.06.2015	Dr. R.Sridevi Dr. G. B. Manjunatha Reddy
6.	Priority setting, monitoring and evaluation (PME) of agricultural research projects	ICAR-NAARM, Hyderabad	02.06.2015	Dr. P.P. Sengupta Dr. S.B. Shivachandra
7.	MOU signing meeting between ICAR-NIVEDI and M/S Arsh Biotech Pvt. Ltd Executed by M/S Agriinnovate India Ltd.	NAAS Complex, ICAR New Delhi	16.06.2015	Dr. Rajeswari Shome Dr. G. B. Manjunatha Reddy
8.	Outbreak Response Training on Anthrax	ICAR-NIVEDI Bengaluru	16.06.2015-19.06.2015	Dr. Jagadish Hiremath
9.	Third Midterm Review meet of DBT-Network project on Brucellosis	ICAR-NIVEDI, Bengaluru	02.07.2015	Dr. Rajeswari Shome Dr. V. Balamurugan
10.	DBT- sponsored second Brainstorming meeting on "Canine Health"	ICAR-NIVEDI, Bengaluru	03.07.2015	Dr. V. Balamurugan
11.	National Interactive Workshop on Brucellosis Control Program (B_CP)	NAAS Complex, ICAR	10.07.2015	Dr. Rajeswari Shome

12	Strengthening Workshop on brucellosis diagnosis in North –Eastern states	AAU, Guwahati	25.07.2015	5 <sup>th</sup> National Conference on Brucellosis
13	Development of software application on Aquatic animal surveillance	ICAR-NBFGR, Lucknow	04.08.2015-06.08.2015	Dr K P Suresh
14	29 <sup>th</sup> ICAR triennial conference	University of Milan, Italy	08.08.2015-14.08.2015	Dr. G. Govindaraj
15	One day workshop on Bluetongue	Gwalior, Madhya Pradesh	27.08.2015	Dr. Md.Mudassar Chanda
16	First Annual Review Meet on NER DBT	College of Veterinary Science, Khanapara	28.08. 2015	Dr K P Suresh
17	DBT-task force meeting	New Delhi	01.09.2015	Dr. V. Balamurugan
18	Workshop to initiate a collaborative project with ILRI, Nairobi in the state of Bihar.	ICAR- Patna	01.09.2015-02.09.2015	Dr. Rajeswari Shome
19	Geospatial analysis for Natural Resource Management using Statistical Tools	ICAR-NAARM, Hyderabad	02.09.2015-11.09.2015	Dr. P. Krishnamoorthy
20	Workshop on Statistical Tools	MLACW, Bengaluru	14.09.2015-16.09.2015	Dr K P Suresh
21	13 <sup>th</sup> annual Scientific review meeting of network programme on GIP	NASC, New Delhi	17.09.2015	Dr K P Suresh
22	Unified communication solution in ICAR	ICAR-NAARM, Hyderabad	05.10.2015	Dr K P Suresh
23	VIROCON-2015 XXIV National Conference on “Transboundary viral diseases under one health: perspectives and challenges”	NEIGRIHMS, Mawdiangdian g, Shillong, Meghalaya	08.10.2015-10.10.2015	Dr. V. Balamurugan Dr. G. Govindaraj
24	Annual Scientist’s meet of AICRP on Animal Disease Monitoring and surveillance	Thiruvananthapuram, Kerala	08.10.2015-09.10.2015	Dr. D. Hemadri

25	Annual Scientist's Meet of All India Network Programme on Bluetongue	TANUVAS, Chennai	02.11.2015	Dr. D. Hemadri
26	Workshop on "Bluetongue vector identification"	TANUVAS, Chennai	02.11.2015-06.11.2015	Dr. Md.Mudassar Chanda
27	7th Kerala Veterinary Science Congress	Pookode, Wayanad	14.11.2015-15.11.2015	Dr. G. Govindaraj
28	Global Health Security India Stakeholder's Meeting	New Delhi	16.11.2015-17.11.2015	Dr. D. Hemadri
29	One day workshop on "Bluetongue diagnosis and control"	TANUVAS, Chennai	17.11.2015	Dr. Md.Mudassar Chanda
30	4 <sup>th</sup> International symposium on Newcastle disease and Peste des petits ruminants	Qingdao, China	18.11.2015-19.11.2015	Dr. V. Balamurugan
31	Participated training cum interactive sessions of DBT-ADMAC project.	AAU, Guwahati	19.11.2015	Dr. Rajeswari Shome
32	Third Annual Meet of the DBT Network Project on Brucellosis	DFRL, Mysuru	20.11.2015	Dr. Rajeswari Shome
33	Veterinary Pathology Congress and IAVP annual conference 2015	Veterinary College, Ganavaram, Vijayawada	03.12.2015-05.12.2015	Dr. G. B. Manjunathareddy
34	Model Training Course on "Epidemiology and Impact Assessment of Livestock Diseases: Concepts, Application and Strategies"	ICAR-NIVEDI, Bengaluru	14.12.2015-21.12.2015	Dr. Yogishardhya R
35	Recent advances in Next generation sequencing and data analysis	ICAR-IASRI, New Delhi	08.01.2016-18.01.2016	Dr.G.S.Desai
36	Preparation of training curriculum for veterinary consultants recruited under IDSP	NCDC, New Delhi.	02.02.2016	Dr. Rajeswari Shome
37	Training on ArcGIS and ERDAS	ICAR-NIVEDI	02.02.2016-05.02.2016	Dr. V. Balamurugan Dr.G.S.Desai
38	Competency development for human resource development nodal officers of ICAR	ICAR-NAARM, Hyderabad	10.02.2016-12.02.2016	Dr. P.P. Sengupta

39	29 <sup>th</sup> annual convention of the IAVMI and Global symposium on 'Animal Health: Newer Technologies and Their Applications'	CVS, Khanapara and ICAR-NRCP, Rani, Assam	12.02.2016-14.02.2016	Dr R Shome Dr K P Suresh Dr G S Desai Dr V Balamurugan Dr P Krishnamoorthy Dr. G. B. Manjunathareddy Dr Yogisharadhya R
40	ASM- SBS Workshop on Culture of Work Responsibility	Veterinary College, KVAFSU, Bengaluru-24	15.02.2016-16.02.2016	Dr. Jagadish Hiremath Dr. R.Sridevi
41	National symposium on One Health Approach - Plausible solution for sustainable Parasite Control	Madras Veterinary College, Chennai	17.02.2016-19.02.2016	Dr. P. Krishnamoorthy
42	National Surveillance Program for Aquatic Animal Diseases - DADF, Ministry of Agriculture, Govt. of India, New Delhi	Krishi Bhavan, New Delhi	22.02.2016	Dr. Rajeswari Shome
43	19 <sup>th</sup> ADNAT Convention: International symposium on microbiome in health and disease (MICROHD 2016)	ICAR-NIANP, Bengaluru	23.02.2016-25.02.2016	Dr. Jagadish Hiremath Dr. R.Sridevi Dr. G. B. Manjunathareddy
44	Competence enhancement Training Programme for Technical Officers (Grade T-5 and above)	ICAR-NAARM	01.03.2016-10.03.2016	Dr. Yogisharadhya R Dr. Awadesh Prajapati
45	23rd Annual review Meet of 'All India Network Programme on Haemorrhagic septicaemia (AINP-HS)	NASC complex, ICAR, New Delhi	03.03.2016	Dr. S.B. Shivachandra
46	National Workshop on Management of Animals in Emergencies	NIDM, New Delhi	03.03.2016-04.03.2016	Dr. G. B. Manjunathareddy
47	National Seminar on Recent Advances in Statistical Tools for Agriculture and Allied Sciences	Bidhan Chandra Krishi Viswavidyalaya Mohanpur, Nadia, West Bengal, India – 741252	03.03.2016-05.03.2016	Dr. Md.Mudassar Chanda
48	ILRI-ICAR workshop on communication and knowledge management in animal science research and development	NASC, New Delhi	04.03.2016	Dr. M. Nagalingam

49	Journal's Editorial Roundtable 2016 with the theme " Getting Visible-Indian Authors in the Global Arena"	Taylor & Francis Group in Bangalore Le Meridian Hotel, Bangalore	08.03.2016	Dr. V. Balamurugan
50	DBT-Sponsored Workshop on "Brucella Genomics III"	Madurai Kamaraj University, Madurai	14.03.2016-18.03.2016	Dr. M. Nagalingam Dr. G. B. Manjunathareddy
51	Modelling for GI parasitism with Haemonchus as model parasite	Avikanagar, Rajasthan	17.03.2016-18.03.2016	Dr. K P Suresh
52	Workshop on Incubation of Incubators	ISBA & GINSERV, Bengaluru	18.03.2016	Dr. S.B. Shivachandra
53	Meeting for discussion on reduce does of Brucella abortus S-19 vaccine	Krishi Bhavan, New Delhi	21.03.2016	Dr. Rajeswari Shome
54	Hindi training and workshop	ICAR-NIANP	21.03.2016-23.03.2016	Dr Md. Mudassar Chanda Dr J Hiremath Dr Yogisharadhya R Mr Lakshmaiah M
55	National Sheep and Farmer Fair	ICAR-CSWRI, Avikanagar	28.03.2016	Dr. S B. Shivachandra Dr. Manjunathreddy G B Dr. Md. Mudassar Chanda Dr. V. Balamurugan Dr. M. Nagalingam Dr. A. Prajapati
56	Geospatial analysis in agriculture and data requirement ICAR-GEOPORTAL	ICAR-NAARM, Hyderabad	29.03.2016-30.03.2016	Dr K P Suresh
57	Workshop on "Operation and Maintenance of Sewage Treatment Plant and Air Pollution Control"	Embassy Information Center, Manyata Tech Park, Hebbal, Bengaluru	31.03.2016	Dr. Jagadish Hiremath
58	Wild life-human conflict workshop	ICAR-NBAIR, Bengaluru.	11.12.2015 12.12.2015	Dr. Md. Mudassar Chanda Dr. J. Hiremath



## Awards/Fellowship/Recognition

Dr. S.B. Shivachandra, Senior Scientist received 'Silver Medal' (2<sup>nd</sup> place) in 'Chess' during ICAR-Institutional Sports Meet-2015 (South Zone) from 25<sup>th</sup> to 29<sup>th</sup> May, 2015 at CIFT, Cochin, Kerala.

Dr. Yogisharadhya R, Senior Technical Officer awarded Jawaharlal Nehru Award for P.G. Outstanding Doctoral Thesis Research in Agricultural and Allied Sciences 2014 for Animal Sciences during ICAR Foundation day and award ceremony 2015 held at Patna. 25<sup>th</sup> July 2015.

Dr. M. Nagalingam, Scientist awarded silver medal for post graduate diploma in technology management in agriculture (PGDTMA) 2012 (Distance Education Mode) by National Academy of Agricultural Research Management (NAARM) and University of Hyderabad (UoH) on 05.09.2015.

Dr. V. Balamurugan, Senior Scientist, received the fellow of Indian virological society award-2015 (FIVS-2015 in Veterinary Virology) during VIROCON-2015, held at NEIGRIHMS, Shillong, Meghalaya. 8<sup>th</sup>-10<sup>th</sup> October, 2015.

Dr. Rajeswari Shome, Principal Scientist received Best DBT unit award from the DBT Network Project on Brucellosis awarded during the 3rd Annual Meeting of the DBT Network Project on brucellosis held at DFRL, Mysuru. 20<sup>th</sup> November 2015.

Dr. G.B. Manjunatha Reddy, Scientist awarded “Best Poster Award” at IAVP-2015, Vijayawada Andhra Pradesh. 3-5<sup>th</sup> December, 2015.

Dr. B. R. Shome awarded ISVIB 2016 Third prize in poster presentation award for the abstract “*Streptococcus uberis* Induce Inflammatory Responses in a Mouse Intramammary Infection Model in a strain directed manner” in Indian Society for Veterinary Immunology and Biotechnology XXII annual Convention and National Symposium on “*Immunomics and Proteogenomics in Livestock Health & Productivity*” at Hisar. 17-19<sup>th</sup> December 2015.

Dr. G. B. Manjunatha Reddy, Scientist awarded “Certificate of Excellence” in reviewing articles by International Journal of Livestock Research.

Dr. B. R. Shome awarded ISVIB 2016 First Prize in poster presentation award for the abstract “Methicillin Resistant *Staphylococci* in Livestock: A Duplex PCR assay for its rapid detection” in Indian Society for Veterinary Immunology and Biotechnology XXII annual Convention and National Symposium on “*Immunomics and Proteogenomics in Livestock Health & Productivity*” at Hisar. 17-19<sup>th</sup> December 2015.

Dr. Rajeswari Shome, Principal Scientist received ISVIB-IVRI Mukteswar Albert Linghard Memorial Award-2015 for the development diagnostic product “Indirect ELISA kit for the diagnosis brucellosis in sheep and goat”. Awarded at annual convention of Indian society for veterinary immunology and biotechnology (ISVIB) and National Symposium on Immunomics and Proteogenomics in Livestock Health & Productivity held at NRC-Camel, Hisar. 17-19<sup>th</sup> December, 2015.

Dr. Rajeswari Shome, Principal Scientist received Appreciation award for Abstract title “Direct speciation and serotype detection of *Mannheimia haemolytica* and *Pasteurella multocida* in respiratory disease clinical samples by mPCR” in the 29<sup>th</sup> Annual Convention of IAVMI along with Global Symposium on "Animal Health: Newer Technologies and their Application" held at Guwahati. 12- 14<sup>th</sup> February, 2016.

Dr. P P Sengupta Principal Scientist received “Dr. D. P. Banerjee Memorial Oration Award 2014” awarded by IAAVP at 25<sup>th</sup> NCVP of IAAVP at Madras Vet. College, Chennai. 17<sup>th</sup> February 2016.

Dr. P.P. Sengupta, Principal Scientist has been admitted as “National Fellow” by IAAVP at 25<sup>th</sup> NCVP of IAAVP at Madras Vet. College, Chennai. 17<sup>th</sup> February 2016.

Rudramurthy, G R, Sengupta, P P, Miles. L. and Rahman, H. First best oral presentation award for the article entitled “Antigen detecting ELISA: a sensitive and reliable tool for the detection of trypanosomosis” by in 24<sup>th</sup> NCVP of IAAVP at Madras Vet. College, Chennai. 17-19<sup>th</sup> February, 2016.

Dr. Md.Mudassar Chanda awarded best oral presentation award in National Seminar on Recent Advances in Statistical Tools for Agriculture and Allied Sciences organized by Society for Application of statistics in Agriculture and Allied sciences, BCKV. 3-5<sup>th</sup> March 2016.

Dr. Md.Mudassar Chanda awarded best poster award in 34<sup>th</sup> Annual Convention of Indian Society for Veterinary Medicine and National symposium.

Dr. S.B. Shivachandra, Senior Scientist and his tem received 'Best Stall Award' for ICAR-NIVEDI, during 'National Sheep and Farmers Fair' organized at ICAR- Central Sheep and Wool Research Institute (CSWRI), Avikanagar. 28<sup>th</sup> March, 2016.

## Miscellaneous

### Institute Management Committee (IMC)

Name	Designation	
Dr. H. Rahman	Director, ICAR-NIVEDI, Bengaluru.	Chairman
Dr. Gaya Prasad	ADG (AH), ICAR, New Delhi.	ICAR Representative
Dr. R. Bhatta	Director, NIANP, Bengaluru.	Member
Dr. K.P. Ramesha	Principal Scientist, Southern Region Station, NDRI, Bengaluru.	Member
Dr. B. R. Shome	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member
Dr. A. N. Shylesha	Principal Scientist, NBAIR, Bengaluru.	Member
Dr. D.M. Das	Director, Department of Animal Husbandry & Veterinary Services, Govt. of Karnataka.	Member
Dr. D. Venkateshwarulu	Director, Animal Husbandry Department, Govt. of Andhra Pradesh, Hyderabad.	Member
Dr. Yathiraj.S.	Dean, Veterinary College, KVAFSU, Bengaluru.	Member
Dr. M. Muddurange Gowda	Village & post Kannamangala Taluq- Doddaballapura, Dist. Bengaluru Rural District.	Non-official Member
Mrs.V. Shubha Reddy	No.80 B, Village- Kurubarahally, Taluq- Gauribidanur, District, Chikkaballapura-581208.	Non-official Member
Mr. A. Srinivasamurthy	F & AO, ICAR-IIHR, Bengaluru.	Member
Mr. Rajeevlochana	AAO, ICAR-NIVEDI, Bengaluru.	Member Secretary

### Institute Research Committee (IRC)

Name	Designation	
Dr. H.Rahman	Director, ICAR-NIVEDI, Bengaluru	Chairman
Dr. K. Prabhudas	Former Project Director, ICAR-NIVEDI, Bengaluru.	Member
Dr. R. Raghavan	Professor & Head (Retd.), Veterinary College, Bengaluru	Member
Dr. M. Gopinath Rao	Prof. & Head, Dept of Agriculture Statistics, UAS, Bengaluru	Member
Dr. Lalith Achoth	Prof & Head, Dairy Economics and Business Management, Dairy Science College, Bengaluru	Member
Dr. V.V.S. Suryanarayana	Principal Scientist (Retd.), ICAR-IVRI, Bengaluru	Member
Dr. P.P. Sengupta	Principal Scientist. ICAR-NIVEDI, Bengaluru	Member Secretary

## Research Advisory Committee (RAC)

Name	Designation	
Dr. M. P. Yadav	Ex Director and Vice Chancellor, IVRI, Izatnagar and VC, SVPUA&T, Meerut	Chairman
Dr. Mruthyunjaya	Former National Director, NAIP, New Delhi	Member
Dr. Gaya Prasad	ADG (AH), ICAR, New Delhi	Member
Dr. H. K. Pradhan	Ex Joint Director, ICAR-NIHSAD, Bhopal	Member
Dr. S.C. Dubey	Ex Joint Director, ICAR-NIHSAD, Bhopal	Member
Dr. D. Swarup	Ex Director, ICAR-CIRG, Makhdoom.	Member
Dr. Anil Rai	Head, CABI, ICAR-IASRI, New Delhi.	Member
Dr. H. Rahman	Director, ICAR-NIVEDI, Bengaluru	Member
Dr. D. Hemadri	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member Secretary

## Quinquennial Review Team (QRT)

Name	Designation	
<b>Dr. S. K. Garg</b>	Former Vice-Chancellor Vet. University, Madhura, Director, College of Applied Education and health Sciences, Gangotri, Roorkee road, Meerat (U.P.)	<b>Chairman</b>
<b>Dr. M. S. Oberoi</b>	Regional Technical Advisor for EID and AMR Programme formulation (FAO) Former Sub Regional ECTAD Manager, Food & Agriculture Organization of the United Nations (FAO) Former Dean, College of Veterinary Science, PAU Ludhiana, India.	<b>Member</b>
<b>Dr. M. Rajasekhar</b>	Former Project Director, PD_ADMAS, Bengaluru Former Consultant to GOI, Dept. of Animal Husbandry and Dairying, New Delhi Technical Director, Diagnostic Research Laboratories Royal Western India Turf Club Ltd. Pune, India.	<b>Member</b>
<b>Dr. Lal Krishna</b>	Former AHC (DADF) & ADG (AH), ICAR, New Delhi Senior Consultant NER-BPMC-A DBT Unit GOI	<b>Member</b>
<b>Dr. Mruthyunjaya Hegde</b>	Former National Director, NAIP, ICAR, New Delhi Former Director, ICAR-NCAP, New Delhi	<b>Member</b>
<b>Dr. Kumanan K.</b>	Dean, Faculty of Basic Sciences, TANUVAS, Madras Veterinary College, Chennai	<b>Member</b>
<b>Dr. V. Balamurugan</b>	Senior Scientist, ICAR-NIVEDI, Bengaluru	<b>Member Secretary</b>

## Institutional Animal Ethics Committee (IAEC)

Name	Designation	
Dr. H Rahman	Director, ICAR-NIVEDI, Bengaluru	Chairman
Dr. S.P. Muthukumar	CPCSEA Nominee	Member
Dr. Rosa J. Samuvel	CPCSEA Nominee	Member
Dr. S.V. Krishnamurthy	CPCSEA Nominee	Member
Dr. Vinod Kumar	CPCSEA Nominee	Member
Dr. Rajeswari Shome	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member
Dr. Divakar Hemadri	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member
Dr. P.P. Sengupta	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member
Dr. P. Krishnamoorthy	Scientist, ICAR-NIVEDI, Bengaluru.	Member Secretary

ICAR-NIVEDI conducted 7<sup>th</sup> Institutional Animal Ethics Committee (IAEC) meeting on 23<sup>rd</sup> November, 2015 under the Chairmanship of Dr. H. Rahman, Director. Dr. S.P. Muthukumar, Principal Scientist, CFTRI, Mysuru and CPCSEA Nominee, Mrs. Rosa Samuel, IISc and Link Nominee and other members from ICAR-NIVEDI attended the meeting



## Institute Bio-Safety Committee (IBSC)

Name	Designation	
Dr. B.R. Shome	Director, ICAR-NIVEDI, Bengaluru.	Chairman
Dr. M.D. Venkatesha	Incharge Director, IAH&VB,	Member
Dr. S. G. Ramachandra,	PRS, IISc, Bengaluru.	Member
Dr. V.V.S. Suryanarayana	Emeritus Scientist, IVRI, Bengaluru	DBT nominee
Dr. S. Srinivas	MO, ICAR-IVRI, Bengaluru.	Member
Dr. (Mrs.) R.Shome	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member
Dr. D. Hemadri	Principal Scientist, ICAR-NIVEDI, Bengaluru.	Member
Dr. G.S. Desai	Senior Scientist, ICAR-NIVEDI, Bengaluru.	Member Secretary



## Distinguished Visitors

- Padma Bhushan Dr. N.K. Ganguly, Former Director General, ICMR, New Delhi
- Shri. Sunil Kumar Singh, Additional Secretary & Financial Advisor, DARE, New Delhi
- Dr. S. Ayyappan, Secretary DARE & DG, ICAR, New Delhi
- Dr. K. M. L. Pathak, DDG (AS), ICAR, New Delhi
- Dr. Harshvardhan Batra, Defence Food Research Laboratory, Mysuru
- Dr. Gayaprasad, ADG (AH), ICAR, New Delhi
- Dr. S. R. Rao, Advisor, DBT, New Delhi
- Dr. G. D. Sharma, Vice Chancellor, Bilaspur University
- Dr. B. N. Tripathi, Director, NRC on Equines, Hissar.
- Dr. Ramesh Vemulapalli, Head, Dept. of Comparative Pathobiology, Professor of Veterinary Microbiology and Immunology, Purdue University College of Veterinary Medicine
- Dr. Rachadaporn Benchawattananm (LEK), Scientists, Forensic Science Faculty of Science, Khan Kam University, Khankam, Thailand
- Dr. B. Pattnaik, Project Director, ICAR-PD on FMD, Mukteshwar, Nainital, Uttarakhand.
- Dr. Henry Walke, Chief Bacterial Special Pathogens Branch, CDC-Atlanta
- Mr. Scott D Saxe, Country Director, USDA-APHIS, USA
- Ms. Cynthia Johnson, Veterinary Epidemiologist, USDA-APHIS, USA.
- Ms. Amy Delgado, Veterinary Epidemiologist, USDA-APHIS, USA.
- Ms. Robin White, Chief of Staff, USDA-APHIS, New Delhi
- Ms. Rakhee Masson, Finance and Administration Specialist, USDA-APHIS, USA
- Dr. Johanna Lindahl, International Livestock Research Institute, Nairobi, Kenya
- Dr. K. Kumanan, Dean, Faculty of Basic Sciences, TANUVAS, Chennai

## STAFF POSITION DURING 2015-16

Sl.No.	Names of Staff	Designation
1	Dr. H. Rahman	Director (upto 31-12-2015)
<b>SCIENTIFIC STAFF</b>		
1	Dr. B.R.Shome	Principal Scientist & Director (Acting) w.e.f 1-1-2016
2	Dr. (Mrs) R.Shome	Principal Scientist
3	Dr.D.Hemadri	Principal Scientist
4	Dr.P.P.Sengupta	Principal Scientist
5	Dr.K.P.Suresh	Senior Scientist
6	Dr.G.S. Desai	Senior Scientist
7	Dr. V.Balamurugan	Senior Scientist
8	Dr.S.S. Patil	Senior Scientist
9	Dr.Sathish B.Shivachandra	Senior Scientist
10	Dr.G.Govindaraj	Senior Scientist
11	Dr. P.Krishnamoorthy	Scientist
12	Dr.R.Sridevi	Scientist
13	Dr.Mohd. Mudassar Chanda	Scientist
14	Dr.J. Hiremath	Scientist
15	Dr.M.Nagalingam	Scientist
16	Dr.G.B.Manjunathareddy	Scientist
17	Dr.Sizu Susan Jacob	Scientist
<b>TECHNICAL STAFF</b>		
1	Dr. Yogisharadhya R	Senior Technical Officer
2	Dr. Awadhesh Prajapati	Senior Technical Officer
<b>ADMINISTRATIVE STAFF</b>		
1	Sh. Rajeevalochana	Assistant Administrative Officer
2	Sh. Babu, R.K.	Assistant Finance & Accounts Officer
3	Sh.M.Lakshmaiah	Assistant
4	Mrs.Divya C.N.	Assistant
5	Sh.N.Narayanaswamy	Assistant
6	Mrs.A.Saranya	Stenographer Grade-II
7	Sh. Vijayraj	Stenographer Grade-II
8	Mrs.G.C.Sridevi	Lower Division Clerk
9	Mr.L.Gangadhareshwara	Lower Division Clerk
<b>SUPPORTING STAFF</b>		
1	Sh.M.K.Ramu	Skilled Support Staff
2	Sh. B. Hanumantharaju	Skilled Support Staff
3	Sh. H.S.Umesh	Skilled Support Staff

## Joining

- 1) Dr. Sizu Susan Jacob, Scientist joined the Institute on 9<sup>th</sup> April, 2015
- 2) Dr. M.R.Gajendragad, Principal Scientist (Retd.) joined as Emeritus Scientist in the Institute on 15-10-2016
- 3) Mrs. Divya, C.N, Assistant joined on inter institutional transfer from ICAR-IISR, Cochin, Kerala on 13<sup>th</sup> August, 2015.
- 4) Shri. N. Narayanaswamy, Assistant joined on Inter Institutional transfer from NBAIR, Bengaluru on 31<sup>st</sup> December, 2015 (A/N)
- 5) Shri. H.S. Umesh joined as Skilled Support Staff on 31-3-2016

## Promotion

- 1) Dr. K.P.Suresh, Scientist was placed in the next higher RGP of Rs.8000/- w.e.f. 30-4-2008 and redesignated as Senior Scientist
- 2) Dr. K.P. Suresh, Sr. Scientist was placed in the Pay band of Rs.37400-67400 and RGP of Rs.9000 w.e.f. 30-4-2011
- 3) Dr. G. Govindaraj, Scientist was placed in the next higher RGP Rs.8000/- w.e.f. 01.01.2014 and redesignated as Senior Scientist
- 4) Dr. G.B. Manjunatha Reddy, Scientist was placed in the next higher RGP Rs.7000/- w.e.f. 20.04.2014

## Superannuation

- 1) Shri. B. Riyaz Ahmed, Administrative Officer, superannuated on 31-5-2015
- 2) Dr. M.R.Gajendragad, Principal Scientist, superannuated on 30-6-2015

## Transfer

1. Dr.H.Rahman, Director, relieved on 31-12-2015 (A/N) consequent upon his appointment as Deputy Director General (AS), ICAR, New Delhi
2. Sh. M. Lakshmaiah, Assistant, transferred on Inter Institutional Transfer to NDRI Southern Regional Station, Bengaluru on 31-3-2016 (A/N).

## Demise

Sri. H. Shivaramaiah, Skilled Support Staff, passed away on 16-9-2015.

## Budget

### Revised Estimate and Expenditure under Plan & Non Plan (In lakh rupees)

Sl. No.	Major Heads	PLAN		NON PLAN	
		Revised Estimate	Expenditure	Revised Estimate	Expenditure
1.	Grant-in-Aid - Capital	465.00	457.08	4.00	3.95
2.	Grant-in-Aid – Salaries	0.00	0.00	412.00	411.45
3.	Grant-in-Aid – General	363.00	362.89	240.00	233.91
<b>Total</b>		<b>828.00</b>	<b>819.97</b>	<b>656.00</b>	<b>649.31</b>

### Revenue Receipts

Description	Amount (Rs.)
Licence Fee	25690
Interest earned on loans & advances	103352
Application Fee from Candidates	16600
Interest earned on short term deposits	2333531
Income generated on Training	76000
Income generated on sale of kits	1174966
Miscellaneous receipts	191650
<b>Total</b>	<b>3921789</b>





# NIVEDI ACTIVITIES





Hon'ble Dr. S. Ayyappan, Secretary, DARE and Director General, ICAR inaugurated the Main entrance of ICAR-NIVEDI, Bengaluru, 27<sup>th</sup> December, 2015



Dr. K. M. L. Pathak, Deputy Director General (AS), ICAR inaugurated the Residential Complex, Water & ETP of ICAR-NIVEDI, Bengaluru on 30<sup>th</sup> December, 2015 in the presence of Dr. C. S. Prasad, Former Director, NIANP, Dr. D. Swarup, Former Director, CIRG, Dr. Raghavendra Bhatta, Director, NIANP.



Hindi Saptah Samaroh celebration in the Institute from 14<sup>th</sup> - 19<sup>th</sup> September, 2015



Pledge taking on the eve of Constitution Day, 27<sup>th</sup> November, 2015



Republic Day was celebrated by hoisting the National Flag by Dr. B. R. Shome, Director (Acting), ICAR-NIVEDI on 26<sup>th</sup> January, 2016



First Prize for Best Stall Exhibit in National Sheep and Farmer's Fair & Farmer's Ghosti at ICAR-CSWRI, Avikanagar, 28<sup>th</sup> March, 2016





Drawing Competition for kids of ICAR-NIVEDI on the eve of Republic Day celebration, 26<sup>th</sup> January, 2016



Pig farmers training program on “Farm Level Practices to Prevent and Control Porcine Abortion and Piglet Diarrhea” at Mandya, Karnataka, 18<sup>th</sup> March, 2016



Dr. C. Renukprasad, VC, KVAFSU, Bidar, Karnataka attended the closing ceremony of ICAR sponsored Summer School on “Principles and Concepts of Livestock Diseases Informatics and Modeling in Veterinary Epidemiology”, 10-30<sup>th</sup> June, 2015



69<sup>th</sup> Independent day was celebrated by hoisting the National Flag by Dr. H. Rahman, Director, ICAR-NIVEDI on 15<sup>th</sup> August, 2015.



Institute Foundation Day, 1<sup>st</sup> July, 2015



Sadbhavana Diwas, 20<sup>th</sup> August, 2015





Dr. Mohd. Mudassar Chanda, Scientist, delivered a lecture on "Bluetongue in South India and forecasting models" at one day workshop on "Bluetongue Diagnosis and control" organized on 17th November, 2015 at TANUVAS, Chennai.



Dr. Jagadish Hiremath, Scientist, discussing with pig farmer from Haleboodnur, Mandya district of Karnataka to evaluate the risk of porcine abortion when fed with hotel waste, 17<sup>th</sup> December 2015



Brain Storming Workshop on Transgenic Livestock Technologies and Applications, 19-20<sup>th</sup> February 2016



A team of Scientists comprising Dr. S. B. Shivachandra, Senior scientist, Dr Mohd. Mudassar Chanda, Scientist, and Dr. Yogish Aradhya, STO along with research scholars from ICAR-NIVEDI visited Kannigal village, Chamrajnagar (District), Karnataka (State), on 22nd December, 2015, for investigation of suspected cases of anthrax outbreak in Cattle population.



Institutional Animal Ethics Committee meeting, 23<sup>rd</sup> November, 2015



Distribution of Sheep under Tribal Sub-plan program to Tribal farmers in Raichur District on 26<sup>th</sup> March 2016.





DAF, Govt. of India Sponsored Interactive Workshop on “Brucellosis Control Program” 10<sup>th</sup> July, 2015

Shri. Radhamohan Singh, Hon'ble Minister of Agriculture on 87<sup>th</sup> ICAR Foundation Day, released india.admas *Epitrak V3*, a dynamic and interactive livestock disease relational database epidemiological software developed by ICAR-NIVEDI, 26<sup>th</sup> July 2015



DBT sponsored Second Brainstorming meeting on Canine Health, 3<sup>rd</sup> July, 2015

Dr. Divakar Hemadri, Principal Scientist, and Dr. Mohd. Mudassar Chanda, Scientist, ICAR-NIVEDI, attended the Workshop on “Bluetongue Vector Identification and Annual Scientists Meet” of All India Network Programme on Bluetongue, 2-6<sup>th</sup> November, 2015



3<sup>rd</sup> Annual Review Meet, DBT-Network Project on Brucellosis, 19-20<sup>th</sup> November, 2015

Dr. Johanna Lindahl of ILRI visited ICAR-NIVEDI and had discussion with Director, and Scientists, 8<sup>th</sup> October, 2015





Dr. H. Rahman, Director, ICAR-NIVEDI attended Global Health Program meet held at Chennai, 12<sup>th</sup> August, 2015



Shri. S. K. Singh, Additional Secretary, DARE and Financial Advisor, ICAR visited ICAR-NIVEDI, 1<sup>st</sup> October, 2015



Dr. Yogisharadhya R. STO, ICAR-NIVEDI received Jawaharlal Nehru Award for Postgraduate outstanding Doctoral Thesis Research in Agricultural and Allied science 2014 for Animal Science from Hon'ble Dr. Sanjeev Kumar Balyan and Shri. Mohanbhai Kalyanjibhai Kundariya, Minister for state for Agriculture and Farmer Welfare during ICAR award ceremony 2015 held on 25<sup>th</sup> July, 2015



ICAR-NIVEDI organized Model Training Course on Epidemiology and Impact Assessment of Livestock Diseases: Concepts, Application and Strategies during 14-21 December, 2015



Vigilance Awareness week was celebrated at ICAR-NIVEDI, 26-31<sup>st</sup> December, 2015



Dr. G.S. Desai, Senior Scientist, ICAR-NIVEDI and his team visited Rajaghatta Village in Doddaballapur Taluk and interacting with farmer as part of Mera Gaon, Mera Gaurav program on 27<sup>th</sup> October, 2015





Jay Kisan, Jay Vigyan Celebration at ICAR-NIVEDI, 29<sup>th</sup> December, 2015



ICAR-NIVEDI participated in the Krishimela organized at GKVK, UAS Bengaluru, 19-22<sup>nd</sup> November, 2015



10<sup>th</sup> Institute Research Committee meeting of ICAR-NIVEDI, 21<sup>st</sup> August, 2015



Kannada Rajyotsava celebration at ICAR-NIVEDI, 2<sup>nd</sup> November, 2015



Dr. P.P. Sengupta, Principal Scientist, ICAR-NIVEDI and his team visited Kodihalli Village in Doddaballapur Taluk and interacted with farmers as a part of Mera Gaon, Mera Gaurav program



Dr. V. Balamurugan, Senior Scientist, participated in the 4<sup>th</sup> international symposium on Newcastle Disease and *Peste des petisi ruminants* (PPR) held at Qingdo, China, 18-19<sup>th</sup> November, 2015





Dr. D. Hemadri, Principal Scientist and Dr. Mohd. Mudassar Chanda, Scientist organized one day workshop on Bluetongue at Gwalior, 27<sup>th</sup> August 2015



Basic epidemiology and outbreak response training organized by CDC-India, at ICAR-NIVEDI, 2015



Dr. H. Rahaman, Director, ICAR-NIVEDI attended the joint meeting of ICAR and International Livestock Research Institute held at NASC, New Delhi on 21-22<sup>nd</sup> September, 2015



Dr. H. Rahaman, Director, ICAR-NIVEDI, participated in the 68<sup>th</sup> Annual Brucellosis Research conference held at Chicago Marriott Hotel, Chicago, IL, USA, 5-6<sup>th</sup> December, 2015

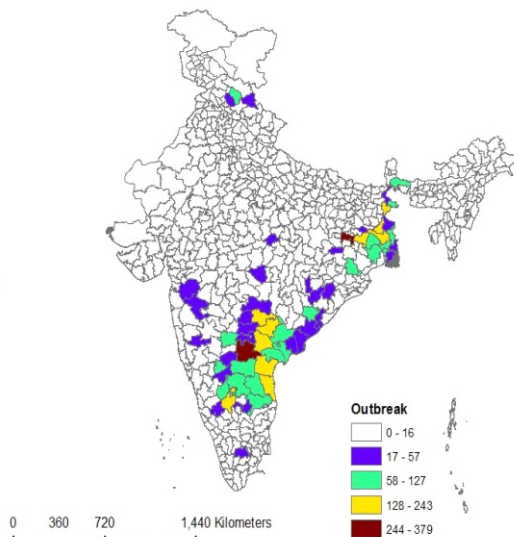




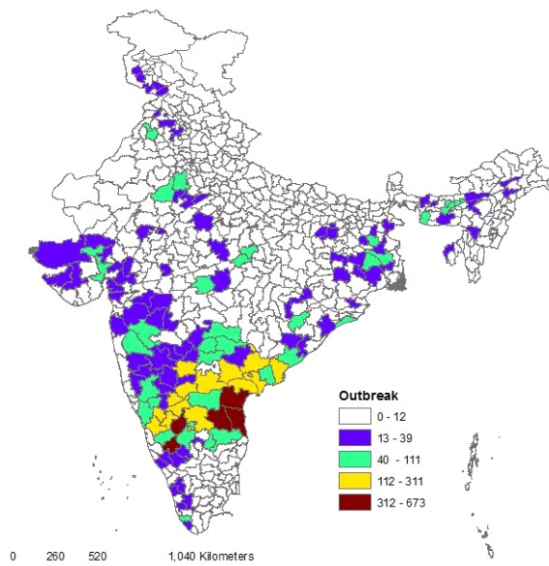
**AICRP - ADMAS Centre, ICAR-NIVEDI, Bengaluru**



Cumulative Outbreak of Peste Des Petits Ruminants Disease (2000 - 2015)



Cumulative Outbreak of Haemorrhagic Septicaemia Disease (2000 - 2015)



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ICAR



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किसानों का हमसफर  
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