

# RAJIV GANDHI INSTITUTE OF VETERINARY EDUCATION AND RESEARCH (RIVER)



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NAAC "A" Grade accredited institution)

Kurumbapet, Puducherry – 605 009. INDIA



## *Lecture by*

*Dr. Mary Anne Amalaradjou, Associate Professor, University of Connecticut &*

*Dr. K. Gururaj, Scientist, CIRG, Mathura, UP*

*on June 11, 2019*

As part of the Outreach program for Students of RIVER by RAGACOVAS @ RIVER Alumni Association, a lecture has been arranged in which the Alumni share their experiences and journey from RIVER

**Date and Time** 11.06.2019, 4.00 pm onwards

**Venue** Conference Hall, RIVER, Puducherry

## About the Resource person



**K. Gururaj**

**Qualification:** Ph.D. (Veterinary Microbiology)

**Job description:** Working as Scientist since Feb 2008 at Division of Animal Health, ICAR-Central Institute for research on Goats, Makhdoom, Farah (Post), Mathura, Uttar Pradesh

**Credentials:**

### ***Research Projects***

Handled 15 projects as investigator related to infectious diseases, diagnostic development, disease control management in small ruminants in the past

Currently handling 4 extramural projects as Principal investigator including

- World Bank funded NASF project on Johne's disease DIVA diagnostics,
- Centre for agricultural bioinformatics (CABin) project on peptide design and lateral flow assay development for enterotoxaemia in goats
- Outreach programme on zoonotic disease (OPZD) – Human-animal interface and risk factors in Crohn's disease caused by *Mycobacterium avium* subspecies paratuberculosis
- FAO funded project on “Indian network for fisheries and animal antimicrobial resistance (INFAAR)” –an important project on surveillance of antimicrobial resistance and integration of pan-Indian data through a network mode

### **Other salient achievements**

- Published 45 research and review articles in national and international journals since 2008
- First in India to develop a reverse genetics system for the full length genome of Newcastle disease virus (Strain – D58), as a part of doctoral research work.
- Chief Microbiologist of the NABL laboratory being set-up in the goat products technology for testing of meat and meat products for *Listeria monocytogenes*, *Salmonella*, *E. coli* and Staphylococcal enterotoxin, using VIDAS system. Certificate of accreditation obtained for ‘General requirements for the competence of testing and calibration laboratories’ from National accreditation board for testing of calibration laboratories (NABL) to GPT lab with the standard ISO/IEC 17025:2005, Certificate no. TC-8413/dt.28/03/2019.
- Guided 6 masters students for their research and dissertation work
- Commercialized four technologies as co-inventor which are herbal formulations for treatment of various ailments in ruminants including anti-diarrheal, acaricidal formulations, immune-modulatory bolus etc.
- Development of molecular diagnostics for various diseases including the *OMP31* gene based TaqMan® probe real time PCR assay for *Brucella melitensis* in small ruminants, *IS900* gene based TaqMan® probe real time PCR assay for Johne's disease, *bfpA* gene based differentiation of enteropathogenic *E. coli* (EPEC) from non-EPEC isolates
- Development of peptide based sero-diagnostics like TM16- based iELISA for quick and early detection of coenurosis in goats, ETX peptide based iELISA for titration of sero-protectivity to enterotoxaemia in goats, MAP2191c (mammalian cell entry protein) recombinant protein based ELISA for differentiation of infected from vaccinated animals against Johne's disease.