

# APPLICATION FORMAT

1. Full Name (Block letters):
2. Date of birth:
3. Designation:
4. Present employer with address:
5. Address for correspondence with Telephone / Mobile number, Fax number and Email:
6. Academic qualifications starting from graduate level:

Name of Degree	University	Year of Passing	Major Subject Offered

Signature of candidate

## 7. Certificate from employer:

The application of Dr./Mr/Ms.....is hereby recommended for attending the course entitled “ **Recent Advances in Stress Genomics for Livestock Production**” being organized by CAFT in Veterinary Physiology, Division of Physiology & Climatology, IVRI, Izatnagar from 09.01.2018 to 29.01.2018. It is further certified that the information furnished by him/ her has been verified and found correct.

Signature of recommending/  
sponsoring authority with seal

## Recent Advances in Stress Genomics for Livestock Production

**Patron** : Dr R.K. Singh  
Director, IVRI

**Director, CAFT** : Dr G. Taru Sharma

**Course Convener** : Dr Puneet Kumar

**Co-Conveners** : Dr V.P. Maurya  
Dr Mihir Sarkar  
Dr. Gyanendra Singh

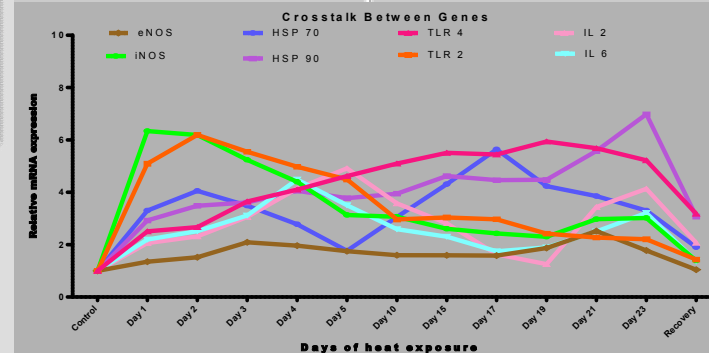
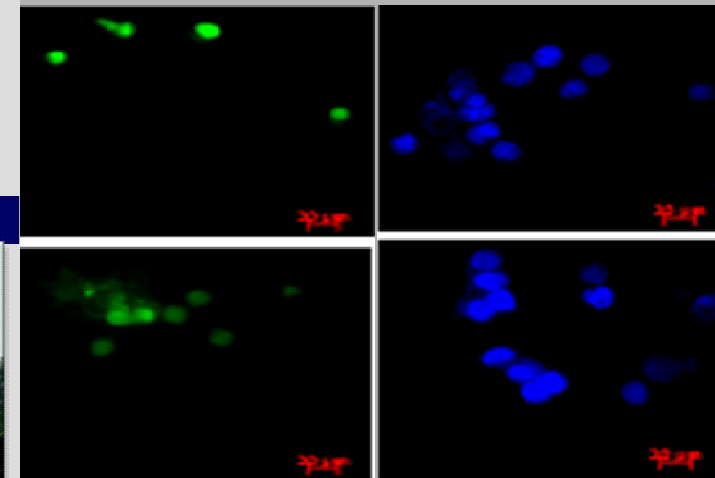


**Contact Address:**  
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A  
CAFT Short Course  
on

## Recent Advances in Stress Genomics for Livestock Production

(January 09 - 29, 2018)



CAFT in Veterinary Physiology  
Division of Physiology and Climatology  
ICAR– Indian Veterinary Research  
Institute Izatnagar-243 122 (UP)



# Recent Advances in Stress Genomics for Livestock Production

## INTRODUCTION

Physiogenomics is an emerging field of physiology which deals with study of genes controlling complex physiological functions. In near future it is going to play vital role and essential tool for underscoring complex physiological processes. It will be of interest to explore the large number of genes involved in regulation of complex processes as reproduction, thermoregulation etc. under harsh environmental conditions specially in the scenario of climate change. Training which are expensive yet crucial for the human resource development in such areas is the current requirement. This 21 days short course is aimed for the academic and scientific capacity building of NARES faculty.

## ELIGIBILITY

Participants having master's degree in animal physiology, animal nutrition, animal reproduction, animal genetics and breeding, animal biotechnology, animal biochemistry, veterinary pharmacology, veterinary medicine, immunology, LPM and allied discipline of animal and veterinary sciences; working not below the rank of Assistant Professor and equivalent in the concerned subject under State Agricultural University / I.C.A.R. institutes are eligible for this course.

## CAFT IN VETERINARY PHYSIOLOGY

Division of Physiology, Pharmacology and Biochemistry was formally established in 1970. Later on Division of Pharmacology & Toxicology as well as Biochemistry was separated and the existing Division was renamed as Division of Physiology and Climatology. On the basis of achievements in Animal Physiology research and teaching, ICAR granted the status of Centre of Advanced Studies in Veterinary Physiology to this division in 1995. The centre is having the responsibility of teaching and research with a mandate of training scientists and teachers of

Universities and Research Institutes. The Centre of Advanced Studies (CAS) was renamed as Centre of Advanced Faculty Training (CAFT) by the Council in the year 2010.

## INSTITUTE

The **ICAR-Indian Veterinary Research Institute** is one of the premier research institutions of South East Asia, dedicated to livestock research and development in India. The Institute was established in the year 1889 and has rendered services as National Institute for more than 128 years to the country. In 1983, IVRI was accorded the status of Deemed to be University by UGC for the award of M.V.Sc. and Ph.D. degrees. It is situated 8 Km north of Bareilly city, at Izatnagar, a satellite town of Bareilly. IVRI is just 1 Km from Izatnagar railway station. The weather of Bareilly during the month of January remains cool with average minimum temperature of 5-6 °C and average maximum temperature of 20 °C.



## COURSE CONTENT

Environmental stress and molecular chaperones, stress and immunity, oxidative stress, Impact of stress on reproductives, Post absorptive metabolic changes and gene expression in heat stressed and thermoneutral pair feeding, management of

pariparturient animals with special emphasis to transition physiology, regulatory networks in abiotic stress tolerance, immunomodulators or antioxidants to enhance the duration and intensity of genes for climate resilient livestock production. Nano-supplement in stress, Recent advances in stress genomics in livestock. High altitude physiology

## SEMINAR

Participants are expected to deliver a short seminar highlighting their activities in the parent organization.

## CERTIFICATE

A certificate will be awarded to the participants on the successful completion of the course.

## FINANCIAL ASSISTANCE

No course fee will be charged for joining the course. The participants will be paid TA as per entitled class restricted to 2<sup>nd</sup> AC and DA for the journey period, provided they produce a certificate from the parent organization to the effect that they are not being paid TA and DA for this course. The participants will have to produce documentary evidence of travelling in the entitled class. Local hospital-ity including free boarding and lodging will be arranged in the institute guest house. Local participants will be provided with minimum hospitality of lunch, tea etc.

## APPLICATIONS

Candidates may log on to [www.iasri.res.in/cbt](http://www.iasri.res.in/cbt), apply online and send duly forwarded application to the Director, CAFT on or before **December 20, 2017** through E-mail or by post to Director, CAFT. *Selection will be made on first come first serve basis.*