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
Dr. V.P. Maurya
Dr. Mihir Sarkar
Dr. Gyanendra Singh

Recent Advances in Stress Genomics for Livestock Production
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CAFT Short Course on
Recent Advances in Stress Genomics for Livestock Production

CONTACT ADDRESS:
Dr. G. Taru Sharma
Head cum Director, CAFT
CAFT in Veterinary Physiology
Division of Physiology & Climatology
Indian Veterinary Research Institute
Izatnagar- 243 122 (UP), India
Telefax: 0581-2301327 (O)
Email: gts553@gmail.com
Web: www.caftphysiol.org/ or www.ivri.nic.in
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 reprogenomics, 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, immune-modulators 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 2nd 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 hospitality 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/cbp, 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.