

APPLICATION FORMAT

Biology of Physiological Adaptation and Production Stress in Farm Animals

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 "**Biology of Physiological Adaptation and Production Stress in Farm Animals**" being organized by CAFT in Veterinary Physiology, Division of Physiology & Climatology, I.C.A.R-I.V.R.I, Izatnagar from **11.01.2017 to 31.01.2017**. It is further certified that the information furnished by him/her has been verified and found correct.

Signature of recommending/ sponsoring authority with seal

A Short course On

Biology of Physiological Adaptation and Production Stress in Farm Animals

(January 11 to January 31, 2017)



CAFT in Veterinary Physiology
Division of Physiology and Climatology
ICAR-INDIAN VETERINARY RESEARCH INSTITUTE
IZATNAGAR- 243 122 (U.P.) INDIA



Patron : Dr. R. K. Singh, Director,
I.C.A.R-I.V.R.I.

Director, CAFT : Dr. G. Taru Sharma

Course Convener: Dr V.P.Maurya

Co-Conveners : Dr. Gyanendra Singh
Dr. H. A. Samad
Dr. Puneet Kumar

Faculty

Faculty of CAFT in Veterinary Physiology
Faculty of IVRI from allied disciplines
Guest faculty of distinguished Indian experts



Contact for further correspondence:

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INTRODUCTION

The agriculture and livestock resources of India are the pivotal force for farmer's livelihood. The main problem of the livestock rearers is the reduced productive potential of native livestock. One of the main problems for reduced production potential in animals is the inadequate availability of feed and fodder, which drastically hampers the different timely tuned reproductive events in animals. To get rid of the problems of low productivity, people have been rearing high milk yielding crossbred cattle. The high yielding cattle is known to have transition phase problems. During peri-parturient period crossbred cows undergo a tremendous and complex set of physiological and metabolic adaptations as animal moves from late gestation to early lactation. These physiological variations are coordinated by hormonal changes to support the new physiological state of lactation, but often immunological suppression causes peri-parturient illness, which leads to heavy decrease in the milk yield. There is an urgent need to address the problem of transition phase adaptation and metabolic stress. The focal theme of the training is very pertinent in the present context because without combined interventions of physiology and nutrition, the reproductive efficiency of our livestock may not be enhanced.

SHORT COURSE

A course of 21 days duration is being proposed in this very important area of biology of physiological adaptation of production stress in farm animal. The participants may be selected from the disciplines of Animal Physiology, Livestock Production and Management, Animal Genetics and Breeding, Biochemistry, Biotechnology, Gynaecology and Obstetrics and allied disciplines; working not below the rank of Assistant professor and equivalent under SAUs and ICAR institutes.

CAFT IN VETERINARY PHYSIOLOGY

Division of Physiology, Pharmacology & 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 ICAR in the year 2010.



INSTITUTE

Indian Veterinary Research Institute (IVRI) is a premier National Institute of Indian Council of Agricultural Research. The Institute was established in the year 1889 and has rendered services as National Institute for more than a century 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. degree.

COURSE CONTENT

Reproduction-nutrition interaction, effect of thermal & nutritional stress on reproductive efficiency, Heat shock proteins and molecular chaperones, seminal quality, body condition score, physio-genomics, hormonal imbalances, metabolic adaptation and physiological responses during heat stress, dietary

energy and sexual behaviour, gene expression, radio immuno assay, ELISA, extreme environments and milk production & composition, IVF, oocyte maturation, germ plasm preservation, Maternal recognition of pregnancy (MRP) and other advanced molecular reproductive technologies.

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 sleeper 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.

BOARDING AND LODGING

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, coffee etc.

APPLICATIONS

Candidates may log on to www.iasri.res.in/cbp, apply online and send duly forwarded application by post to Director CAFT on or before December 20, 2016. **Selection will be made on first come first serve basis.**