

# APPLICATION FORMAT

Upstream reproductive technologies for augmentation of livestock production

ICAR Sponsored CAFT Short Course



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 “Upstream reproductive technologies for augmentation of livestock production” being organized by CAFT in Veterinary Physiology, Division of Physiology & Climatology, IVRI, Izatnagar from 02.09.2017 to 22.09.2017. It is further certified that the information furnished by him/her has been verified and found correct.

Signature of recommending/  
sponsoring authority with seal

**Patron** : Dr. R.K. Singh

**Director, CAFT** : Dr. G. Taru Sharma  
**Course Convener** : Dr. Vikash Chandra

**Co-Conveners** : Dr. Mihir Sarkar  
Dr. Vikrant S. Chouhan

**CAFT Faculty** : Dr. Puneet Kumar  
Dr. V.P. Maurya  
Dr. B.C. Das  
Dr. Sadhan Bag  
Dr. Gyanendra Singh  
Dr. Hari A. Samad

### Other faculty

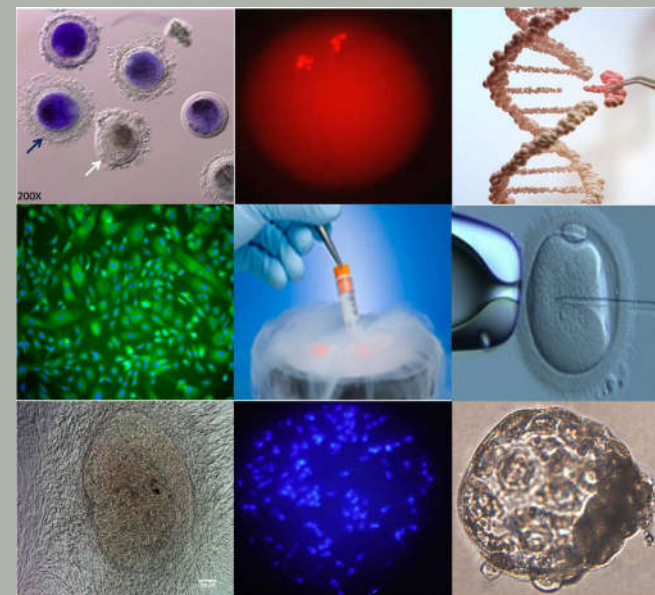
Faculty of IVRI from allied disciplines  
Distinguished Guest faculty



### Contact Address:

**Dr. G. Taru Sharma**  
Head cum Director, CAFT  
CAFT in Veterinary Physiology  
Division of Physiology & Climatology  
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Upstream reproductive technologies for augmentation of livestock production  
(September 02-22, 2017)



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



## INTRODUCTION

Reproductive failure is most costly and limiting factor for the success of livestock industry. Reproductive technologies offer opportunity for enhancing the production potential of livestock. Last three decades have witnessed significant advances in the area of upstream reproductive biotechniques as well as in genomics. Training which are expensive yet crucial for the human resource development in such areas is the current requirement. This short course aims to share the developments of such technologies developed through constant research efforts could also be used commercially. 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 biotechnology, animal biochemistry, veterinary pharmacology, veterinary medicine, veterinary surgery, LPM and allied discipline of animal 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 & 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 Institute. 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 126 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. degree. 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 September remains hot & humid (Morning 20 °C and day temperature about 34-35 °C).



## COURSE CONTENT

Assisted reproductive technologies in farm animals, *in vitro* embryo production, follicular dynamics to enhance reproductive efficiency in farm animals, Nutritional intervention to enhance reproductive efficiency of farm animals, impact of stress on reproductomics, Molecular signatures for oocyte developmental competence, hormonal

intervention to enhance reproduction, transgenesis in farm animals, CRISPR/Cas9 mediated gene editing and gene silencing by RNAi, stem cell biology, bull fertility measures, cryopreservation of male and female germplasm, Molecular determinants of preimplantation embryos, Maternal recognition of pregnancy using transcriptomics approach, recent tools of pregnancy diagnosis, implantation physiology to augment reproductive efficiency and management of pariparturient animals with special emphasis to transition 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 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](http://www.iasri.res.in/cbp), apply online and send duly forwarded application to the Director, CAFT on or before August 20, 2017 through E-mail or by post to Director, CAFT. *Selection will be made on first come first serve basis.*