



A HANDS-ON-TRAINING
On
**OESTRUS SYNCHRONIZATION
AND ARTIFICIAL INSEMINATION
IN SHEEP**
(15.12.2017 to 21.12.2017)



Division of Animal Physiology and
Biochemistry
ICAR- Central Sheep and Wool Research Institute
Avikanagar, Via- Jaipur, Rajasthan-304501

Chairman: Dr. A. K. Tomar, Director, C.S.W.R.I,
Avikanagar

Course Director: Dr. Raghvendar Singh, Head,
Animal Physiology & Biochemistry

Course Coordinator: Dr R. K. Paul, Scientist

Co-coordinators:

Dr. Vijay Kumar, Scientist (S.S.)

Dr. Krishnappa, Scientist

Faculty:

Dr. Raghvendar Singh, Head, AP&B

Dr. S.M.K. Naqvi, Pr. Scientist

Dr. Davendra Kumar, Pr. Scientist

Dr. Vijay Kumar, Scientist (SS)

Dr. R. K. Paul, Scientist

Dr. Kalyan De, Scientist

Dr. Krishnappa B., Scientist

Dr. Sangrathna Bahire, Scientist

Dr. Arpita Mahapatra, Scientist

Contact details:

Dr. R. K. Paul

Course Coordinator

Division of Animal Physiology and Biochemistry

ICAR-Central Sheep and Wool Research Institute

Avikanagar, Via- Jaipur, Rajasthan, 304501

Phone: 01437-220165, Mob. 9460549384

Fax: 01437-220163

Email: drrajani1980@gmail.com,

Dr. Raghvendar Singh

Head & Course Director

Division of Animal Physiology and Biochemistry

CSWRI, Avikanagar, 01437 220165

Email: raghdendar.singh@icar.gov.in

Dr. S. C. Sharma, HRD in-charge

Ph: 01437 220281; Email: drscs63@gmail.com

Hands-on-training on
**Oestrus Synchronization and
Artificial Insemination in Sheep**
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Introduction

Oestrus synchronization and Artificial Insemination (AI) are novel reproductive techniques having potential economic benefits to the sheep farmers. By adopting these techniques farmers can breed their ewes round-the-year in groups of their desired sizes. This allows them easy management of the newborn lambs and pregnant ewes. They can produce animals at selling age in batches. Moreover, farmers will get additional lambs per ewe that will give extra income to them.

**Division of Animal Physiology and
Biochemistry**

The division is well equipped with advanced facilities on semen collection, processing, evaluation and artificial insemination in sheep. The division has developed a simple, low-cost and handy technique for oestrus synchronization in sheep at farmers' flock. The techniques were also standardized for application in other ruminant species like cattle, buffalo and goat. The vaginal sponges used for oestrous synchronization in these species are being produced by our division and

were widely tested at different parts of the country. The techniques were found quite effective. Therefore the participants could also be able to apply the techniques in these species in addition to sheep following this training. The division has well qualified and trained scientific and technical staffs who are regularly imparting training on oestrus synchronization and AI in sheep to the various stakeholders. Therefore, the training will be useful for field vets, KVK scientists and Assist. Professors of universities /colleges etc. engaged in sheep husbandry.

Course contents

Ovine reproductive physiology, hands-on-practice on induction and synchronization of oestrus in sheep, preparation of vaginal sponges (demo), preparation of semen diluents, semen collection, subjective evaluation, semen dilution and short-term preservation, transport of semen and fixed time AI at farmers' flock, ultrasonography for pregnancy diagnosis in sheep, lectures on risk and control of disease transmission through AI, factors affecting success of AI and care of ram and ewes, import-export regulations of semen, recent techniques of semen evaluation

Eligibility

Veterinarians working as Veterinary officers in the state animal husbandry departments, subject matter specialist (SMS) of KVK, Scientists in National Projects on sheep, Assistant Professors in colleges dealing with sheep husbandry.

Financial assistance

The training is sponsored by Central Wool Development Board, Ministry of Textiles, Govt. of India. Facilities of boarding and lodging to the participants will be made available **free of cost** at Institutes P.G. hostel. No TA/DA will be given and travel expenses should be borne by their parent organization/department.

Certificate

A certificate will be awarded to the participants at the end of the training.

How to reach

ICAR-C.S.W.R.I., Avikanagar is located in Malpura Tehsil of Dist. Tonk, Rajasthan. It is about 90 Km away from Jaipur on Jaipur-Malpura state highway and connected by Rajasthan roadway buses which are frequently available from Sindhi camp bus stand which is about 2 Km away from Jaipur Railway junction.

Weather The weather at Avikanagar during December is relatively cold with 10 - 25 °C temperature and 50-70 % relative humidity.

- Last date of application: **7th Dec., 2017**
- Communication to selected participants: **8th Dec., 2017**
- Commencement of training: **15th Dec., 2017**

