



Hands-on training

On

Advanced Reproductive Management in Small Ruminants

Sponsored under

*Development Action Plan for Scheduled
Castes (DAPSC) and Scheduled Tribes
(DAPST) of ICAR*

8-10th March, 2025

Organized by:

ICAR – Indian Institute of Agricultural Biotechnology
Garhkhatanga, Ranchi – 834003
Website: <https://iiab.icar.gov.in/>

About the Institute

The ICAR-Indian Institute of Agricultural Biotechnology (ICAR-IIAB), Ranchi, established under the Indian Council of Agricultural Research (ICAR), stands as a national institute dedicated to advancing agricultural biotechnology. The institute operates at the interface of plant, animal, fish, and microbial biotechnology, conducting high-quality basic and applied research, while also focusing on academic excellence. The chief mandate of the institute is basic and strategic research in agricultural biotechnology and imparting excellence in academics through improving the quality human resource. The institute offers teaching and training at undergraduate, master's, doctoral, and post-doctoral levels.

About the training

The training will cover key aspects of reproductive physiology, viz., estrus synchronization, and ultrasonography for efficient breeding management in small ruminants. Participants will gain practical skills in estrus detection, synchronization, and reproductive monitoring using advanced tools. The program will also include hands-on sessions on artificial insemination, semen collection, evaluation, sperm sexing, flow cytometric semen evaluation and cryopreservation techniques. Additionally, it would address embryo transfer technology, and novel genomic tools for enhancing reproductive efficiency. Overall, the training will be a blend of theory, practical training, and expert insights to ensure participants are well-prepared for field application.

Course contents:

- Reproductive physiology of small ruminants: basics and beyond
- Estrus synchronization: hormonal and non-hormonal protocols
- Ultrasonography in small ruminant reproduction: principles and applications
- Demonstration of oestrus detector for reproductive monitoring
- Semen collection, evaluation, and cryopreservation
- Sperm sexing in small ruminants; progress so far
- Artificial insemination: advances and field applications
- Embryo transfer technology: opportunities and challenges
- Genomic tools and their role in reproduction.

Eligibility

The total number of participants is limited to 15, consisting of 10 candidates from the Scheduled Caste (SC) category and 5 from the Tribal (ST) category. These participants should hold a B.V.Sc. & A.H. degree and be employed in State Animal Husbandry Departments, Livestock Boards, ICAR institutions, KVVs, or Central/State Agricultural or Veterinary Universities.

Mode of Selection:

The applications will be screened by a selection committee. The seats are limited and the maximum number of participants will be 15 only. A list of candidates will be prepared as per criteria laid for the course and will be intimated to the selected participants through E-mail.

How to Apply:

Applications for the course must be submitted via Google Forms (https://docs.google.com/forms/d/e/1FAIpQLSdbKtRCdcRnlh_wkgbPHfaafZbOJo18Izv_89Nikt5nd7P3oA/viewform?usp=header). Through proper channel copy of the application form attached overleaf must be submitted along with caste certificate in google form for consideration of the application. The last date for submission is 31st January 2025.

Financial Assistance:

There is no registration or bench fee. The participants will be paid T.A. for to and fro journey by rail/bus/public transport by the shortest route as per entitlement, restricted to AC-II (on producing documentary evidence). Participants should produce a certificate that they have not received any travel support from the parent Institute/University/college. Accommodation will be provided free of cost in a government guest house or private hotel on a shared basis, based on availability, on a first-come, first-serve basis.

ORGANIZING COMMITTEE

Chief Patron



Dr. Sujay Rakshit
Director, ICAR-IIAB

Patron



Dr. Vijai Pal Bhadana
Jt. Director (Res.), ICAR-IIAB

Course Director



Dr. Soumen Naskar
Principal scientist

Coordinator



Dr. Amit Kumar
Scientist

Co-Coordinator



Dr. Kanaka KK
Scientist

Application form for participation in Hands-on training on 'Advanced Reproductive Management in Small Ruminants'

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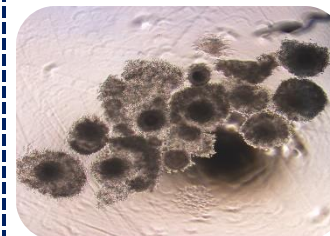
1. Name:.....
2. Designation:.....
3. Present employer and address:
4. Address for correspondence:
5. Telephone: Mobile:.....
6. Email:
7. Date of birth:
8. Sex:
9. Category (SC/ST):
10. Highest educational qualification:.....
11. Teaching/Research/Professional Experience:

It is certified that all the information furnished by me is true to the best of my knowledge.

Date:

Signature of applicant

Recommendations of the forwarding authority with seal:



Correspondence

Dr. Amit Kumar

Scientist & Course Coordinator,
ICAR – Indian Institute of Agricultural
Biotechnology, Garhkhatanga,
Ranchi – 834003, India
Mobile: 9518431940
Email: amitkajal7@gmail.com