

**ICAR-sponsored Ten-day Short Course
on**

**Strategies for Characterization and
Conservation of Indigenous Animal
Genetic Resources in India**

INFORMATION BROCHURE



16-25 February, 2026

Course Director

Dr. Sonika Ahlawat

Senior Scientist, Animal
Biotechnology

Course Coordinators

Dr. Raja KN

Principal Scientist, Animal
Genetics and Breeding

Dr. Reena Arora

Principal Scientist, Animal
Biotechnology



Sponsored by
Agricultural Education Division
Indian Council of Agricultural Research

Organized by
Director
ICAR- National Bureau of Animal Genetic Resources
Karnal-132001 (Haryana) INDIA

Organizing Committee

Chief Patron

Dr. N.H. Mohan

Director, ICAR-National Bureau of Animal Genetic Resources, Karnal, Haryana

Patrons

Dr. A.K. Mishra

Head, Division of Animal Genetic Resources, ICAR-NBAGR, Karnal

Dr. S.P. Dixit

Head, Division of Animal Genetics, ICAR-NBAGR, Karnal

Dr. Ravi Kumar Gandham VPPS

Head, Division of Animal Biotechnology, ICAR-NBAGR, Karnal

Course Director

Dr. Sonika Ahlawat

Senior Scientist, Animal Biotechnology

Email: sonika.ahlawat@gmail.com; Sonika.Ahlawat@icar.org.in

Phone: 9416161369

Course Coordinators

Dr. Raja KN

Principal Scientist, Animal Genetics and Breeding

Email: KN.Raja@icar.org.in; Phone: 9729070777

Dr. Reena Arora

Principal Scientist, Animal Biotechnology

Email: Reena.Arora@icar.org.in; Phone: 9896273333

Important dates

Last date of application: 20 January 2026

Notification of selection: 25 January 2026

Bank account details

Beneficiary Name: I.C.A.R. Unit NBAGR, Karnal

Bank Name: State Bank of India (SBI)

Account Number: 10093065125

IFSC Code: SBIN0001761

Branch: Model Town, Karnal

About the Institute

ICAR–National Bureau of Animal Genetic Resources (NBAGR)

Established in 1984, the ICAR–National Bureau of Animal Genetic Resources (NBAGR) is one of the six Bureaus under the Indian Council of Agricultural Research (ICAR). The institute is dedicated to safeguarding India's rich diversity of indigenous farm animal genetic resources, ensuring their long-term conservation, sustainable use, and contribution to rural livelihoods.

ICAR–NBAGR works with a clear mandate:

1. Identification, evaluation, characterization, conservation and utilization of livestock and poultry genetic resources of the country.
2. Coordination and capacity building in animal genetic resources management and policy issues.

The Bureau undertakes extensive field surveys across the country to identify and characterize prospective populations, prepare detailed documentation, and facilitate their registration. It plays a pivotal role in prioritizing and conserving native breeds, assessing unique traits, and promoting their effective utilization.

As the national authority for breed registration, ICAR–NBAGR follows a globally unique framework for breed recognition and Gazette Notification. The Bureau also collaborates closely with national and international organizations, including the Food and Agriculture Organization (FAO) of the United Nations, on matters related to animal genetic resources. Additionally, it serves as India's nodal agency for reporting progress on UN Sustainable Development Goal (SDG) 2, Indicators 2.5.1 and 2.5.2.

Course content at a glance

- National programs and missions for strengthening indigenous Animal Genetic Resources (AnGR).
- Overview of registered livestock and poultry breeds and insights from breed-wise surveys and livestock census.
- Procedures for breed registration and documentation.
- Principles and methods for phenotypic characterization of livestock and poultry.
- Genetic characterization tools, including use of next-generation sequencing data, SNP chips, and marker data analysis.
- Applications of Artificial Intelligence and machine learning in phenotypic assessment of animals.
- Conservation approaches: *ex situ* and *in situ* strategies, reproductive technologies, and somatic cell banking.
- Genomic tools for improvement: Genomic selection, population structure analysis, and systems biology of economic traits.
- Value addition and sustainable utilization of indigenous breeds through unique products and functional biomolecules
- Policy frameworks governing biodiversity, including the Biological Diversity Act and national regulatory bodies.

Eligibility

Scientists, Assistant Professors, and individuals serving in equivalent or higher positions within the National Agricultural Research System (NARS), including ICAR Institutes, SAUs, SVUs, CAUs are eligible to apply. Candidates should be working in the fields of Veterinary and Animal Sciences, and be actively engaged in research, teaching, or extension activities.

The Short Course will accommodate a maximum of **25 participants**.

Application procedure

Eligible candidates should submit their application in the prescribed format, duly recommended by the competent authority. The approved application must be emailed to **sonika.ahlawat@gmail.com** on or before **20 January 2026**. There is **no course fee**, but participants are required to pay a **registration fee of Rs. 50/-** online to the account "**I.C.A.R. Unit NBAGR, Karnal**." Details of the online transaction should be shared for verification. A confirmation email will be sent to all selected candidates.

Boarding, lodging, and travel allowance

Selected participants will be provided **free boarding and lodging** at the Institute Guest House. Food expenses will be covered by the organizers as per ICAR guidelines. Travel costs for participants will be reimbursed for the **to-and-fro journey to Karnal** by rail or road via the shortest route, as per their **entitled class**, subject to a maximum of **AC-II tier train fare or actual bus fare**. Local participants are not eligible for boarding and lodging but will be provided **lunch and inter-session tea. No daily allowance (DA) will be paid**.



APPLICATION FORM

ICAR-sponsored Ten-day Short Course on Strategies for Characterization and Conservation of Indigenous Animal Genetic Resources in India

(16-25 February, 2026)

1. Full name:
2. Designation:
3. Discipline:
4. Present employer and address:
5. Address for correspondence: (along with mobile/telephone no. and email):
6. Date of birth:
7. Sex (Male/Female):
8. Teaching/Research/Professional experience
9. Marital status (Married/Unmarried):
10. Online payment transaction ID and date:
11. Number of courses attended in the last five years:

12. Academic Record

Degree	Discipline	Year	University
Graduation			
Masters			
PhD			
Any other			

Date:

Place:

Signature of Applicant

Date:

Signature of forwarding authority with Seal