ICAR-National Bureau of Agricultural Insect Resources (ICAR-NBAIR)

Hebbal, Bengaluru, Karnataka 560 024

HANDS-ON TRAINING ON

Comparative Genomic Analysis of Insects and Mites

4–8 JANUARY 2027
Five-day programme

Register by 5 December 2026

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Sponsored by
ICAR- Consortium Research Platform on Genomics

Organized by Division of Genomic Resources, ICAR-NBAIR, Bengaluru, India

ABOUT THE PROGRAMME

An advanced hands-on, application-oriented course using the Galaxy platform. Participants work through a complete comparative genomics pipeline on real genomic and protein datasets of agriculturally important insects and mites.

ANALYSIS PIPELINE

1. Candidate genes through BLASTP
2. Sequence retrieval and processing
3. Multiple sequence alignment
4. Phylogeny with IQ-TREE and iTOL
5. Protein domains with InterProScan
6. Conserved motifs with MEME
7. Gene structure comparison
8. Chromosomal localization
9. Gene duplication analysis
10. Ka/Ks evolutionary analysis

LEARNING OUTCOMES

Genome data
Retrieval, quality checks, preparation

Comparative
Conserved and divergent patterns

Phylogenetics
Alignment and evolutionary trees

Annotation
Domains, motifs, gene structure

Evolution
Duplication, divergence, selection

Integration
Expression data and adaptation traits

15 Participants
Selected on CV and personal interview. Bring a laptop for basic analysis.

ELIGIBILITY

Scientists / research scholars / faculty working under ICAR/ SAU / CAU setups and presently working in genomics, transcriptomics and genome-assisted insect pest management. Molecular entomology, biology or genetics background preferred; bioinformatics experience highly desirable. **Age below 40 years.**

FACILITIES

Registration kit, working lunch and refreshments. Twin-sharing accommodation at the ICAR–NBAIR guesthouse at applicable charges.

IMPORTANT DATES

26 Nov 2026	Registration Starts
5 Dec 2026	Registration Deadline
10 Dec 2026	Announcement of Selection
4 Jan 2027	Training Begins

Course Directors

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