



Winter School

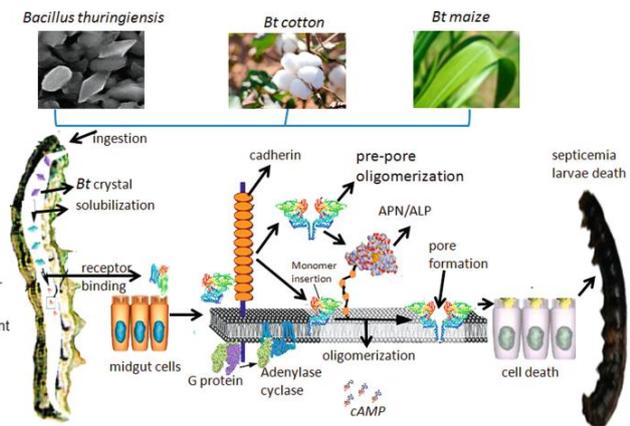
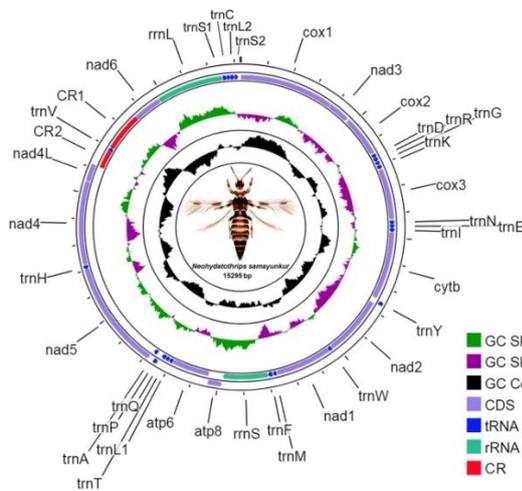
on

Emerging Biotechnological and Biorational Interventions in Crop Protection: Addressing Nationally Important Pests and Pathogens

27 January - 16 February 2026

Sponsored by

Indian Council of Agricultural Research, New Delhi



Course Director

Dr Anil Dixit
Joint Director (SCHMR)

Course Coordinators

Dr Sridhar Jandrajupalli
Senior Scientist (Entomology)

Dr Sushil K. Sharma
Principal Scientist (Microbiology)

Organized by

ICAR – National Institute of Biotic Stress Management, Raipur

About the Training

This is a holistic training for the plant protection scientists offering molecular techniques, DNA barcoding, genome editing, RNAi, identification of novel target genes, speed breeding, screening germplasm, bioinformatics etc for the management of biotic stresses. Training also highlights role of microbes, novel entomopathogens, biosurfactants, plant based biopesticides for mitigating biotic stresses. Besides, training also covers herbicide residues, novel weed management strategies, herbicide tolerant crops, genomics of adaptive nature of weeds etc. This training will provide exposure to latest biotechnological and biorational technologies for efficient pest management. Overall, this training carries a holistic approach - right from molecular diagnostics to biorational approaches for biotic stresses of national importance.

Themes of the training programme

- ❖ Genetic diversity, phylogenetics of insects and pathogens (Biotypes/genetic groups/races/ strains etc.)
- ❖ Gene editing (CRISPR-Cas9), RNAi, MAS, Phage therapy Speed breeding techniques for mitigating biotic stresses
- ❖ Identification of novel genetic resources/genes for developing biotic stress resistant varieties in crops
- ❖ Digital sequence information: What is it and why it matters in Agricultural Microbiology and Plant Pathology.
- ❖ Microbial resources to suppress biotic stresses for better plant health
- ❖ Plant based biopesticides for management of disease and pests
- ❖ Novel weed management strategies in organic and natural farming.
- ❖ Herbicide tolerant crops, herbicide residues, herbicide resistance/ tolerance in weeds

About ICAR-NIBSM

ICAR - NIBSM is located in Raipur, Chhattisgarh, India established in 2012 under Indian Council of Agricultural Research (ICAR), Ministry of Agriculture & Farmers Welfare, and Government of India. It has got four well established schools namely School of Crop Health Management Research (SCHMR), School of Crop Health Biology Research (SCHBR), School of Crop Resistance System Research (SCRSR), School of Crop Health Policy-support Research (SCHPR) for conducting well defined basic, strategic, adaptive research for the management of biotic stresses of national importance. It is one of the unique institutions of ICAR in the country focussing on unresolved issues of biotic stresses of national importance through hub and spoke model. Mandate of the institute is to focus on basic and strategic research for discerning molecular mechanisms of host- pest/pathogen recognition, pest/pathogenic invasion and colonization in the host tissue. The NIBSM shall exclusively undertake basic and strategic research on mining, isolating, characterizing, and deploying novel genes for biotic stress tolerance. It visualizes to generate intermediate products for tolerance to multiple stresses such as gene constructs and stress induced promoters, which will be used by crops / animals, based institutes to develop end products. It seeks to evolve innovative technologies with respect to climate change related biotic stresses and focuses on HRD and capacity building. The institute will strongly complement the ongoing R&D in science and technology (S&T) platforms under National Agricultural Research and Education System (NARES). NIBSM, as deemed to be university has been signified to redeem the strong influence of biotic stresses in the agricultural growth in the country in the context of human resource requirement to service the expected institutional framework once the country enacts the Agricultural Biosecurity and Biotechnology regulatory authority bills.

Highlights

Venue

ICAR - National Institute of Biotic
Stress Management
Baronda, Raipur, Chhattisgarh -
493225, India.
Telephone No. 0771-2277333
Email: director.nibsm@gmail.com

Important Dates

Training duration - 21 Days
27 January– 16 February 2026
Last date for receiving applications
31st December 2025

How to Apply

Interested candidates are requested to follow the ICAR guidelines and apply through proper channel and duly forwarded and recommended nominations/applications may be submitted electronically through emails to Course Director, winterschoolnibsm2026@gmail.com.

Participants are advised to depart to ICAR-NIBSM, Raipur only after the receipt of participation confirmation letter from Course Director.

Participant's selection

Maximum intake for the program is 25 participants. As per the eligibility criteria, participants selection would be based on first-cum-first basis. Selection of candidates is a matter of discretion of the Competent Authority of ICAR-NIBSM, Raipur. Participants nomination from the respective heads of organizations does not entail confirmed participation in the program. A formal confirmation letter of the selected candidates will be sent by ICAR-NIBSM during first week of January 2026.

Registration

There is no course fee, however, a non-refundable registration fee of Rs. 50/- (Rupees

fifty only) is to be paid at the time of registration.

Boarding and Lodging

The participants will be provided free boarding and lodging in the institute guest house only on sharing basis. Since, the limited rooms are available so the accommodation will not be provided to the family members or guests of the participants at any condition. Food will be served and expenses will be borne by the organizers as per ICAR norms. The local candidates are not eligible for boarding and lodging; however, they are entitled to local hospitality, i.e. lunch, tea, coffee, etc.

Eligibility qualification for the participants of the Winter School

1. Master's Degree and
2. Working not below the rank of Assistant Professor or equivalent in any discipline of agricultural sciences including animal and fishery sciences under Agricultural University/ ICAR Institute.

For further information about the program please contact:

Course Director

Dr. Anil Dixit

Joint Director (SCHMR)
ICAR-NIBSM, Raipur 493225.
Email: anildixit99@gmail.com
Mobile: 9425213281

Course Coordinators

Dr Sridhar Jandrajupalli,

Senior Scientist
(Agricultural Entomology),
brossidhar@gmail.com, 8894459090

Dr Sushil Kumar Sharma,

Principal Scientist (Microbiology),
sks_micro@rediffmail.com, 8840214318

Travelling Allowance

The selected participants are restricted to travel AC II by train/ Bus depending on availability by shortest route. The TA will be paid on the submission photo copies of reserved tickets by participants. In case participant travelled by Air, the reimbursement will be restricted to AC-II tier only and it is

mandatory to book air ticket from IRCTC, Balmer Lawrie, and Ashoka Travels & Tour only.

For any further information/clarification, please write: anildixit99@gmail.com,
brossidhar@gmail.com



ICAR-Sponsored 21-Days Winter School

on



Emerging Biotechnological and Biorational Interventions in Crop Protection: Addressing Nationally Important Pests and Pathogens

(27 January to 16 February, 2026)

Application form

1. Name :
2. Date of Birth :
3. Gender :
4. Educational Qualifications :
5. Degree & College/Institute/University)
 - i) Bachelors :
 - ii) Masters :
 - iii) Ph.D. :
6. Designation :
7. Discipline/Specialization :
8. Research area(s) :
9. Institute & Department :
10. Institute's Address :
11. E-mail ID :
12. Mobile No. :
13. Aadhar Card No. :

Signature of the applicant

Forwarding from Head of the Institution/Competent Authority

With Signature and Office seal

