

Satellite Symposium on

Chemoecological Innovations in Modern Pest Management

Meet us

📍 Radisson Blu Atria Bengaluru, India

📅 27 February 2025



As a part of the Second International Conference on Biological Control: Biocontrol Contribution to One Health (2icbc2025), 25-28 February 2025

Chemoecology stands as a pivotal discipline within ecological science, emphasising the intricate chemical interactions between organisms and their environment. By harnessing the chemical signals, it offers innovative and sustainable pest management strategies, to tackle significant agricultural challenges, including the spread of invasive species and the increasing resistance to conventional pesticides. This field not only deepens our understanding of ecological dynamics but also paves the way for transformative approaches in modern agriculture.

Objectives

- To introduce innovations in chemoecological techniques.
- Discuss the integration of chemical ecology with modern pest control technologies.
- Provide a platform for collaboration among researchers, industry experts and policymakers.

Focussed Themes

- Prospects of Chemoecological Approaches in Pest Management
- Trophic Interactions as a Tool for Pest Management
- Semiochemical Industry: Status and Emerging Opportunities

Target Audience

- Scientists, Graduate students and Early-Career Researchers
- Policymakers, Environmentalists and Industry Stakeholders

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Jointly organised by

Division of Germplasm Conservation and Utilisation, ICAR-National Bureau of Agricultural Insect Resources, & Society for Biocontrol Advancement, Bengaluru, Karnataka, India

For registration: <https://icbc2025.eventdashboard.in/>

Satellite Symposium on

Insect Multi-Omics: Molecular Insight Meets Pest Management Solutions

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Agriculture faces unprecedented challenges, including the emergence of invasive pests, resistance to conventional pest control measures, and the effects of climate change. To address these issues, integrating molecular biology with pest management strategies has become paramount. Insect Multi-Omics encompassing Genomics, Transcriptomics, Proteomics, and Metabolomics has revolutionized our understanding of insect biology, enabling precise and sustainable pest control approaches. The convergence of Multi-Omics with emerging tools such as RNA interference and CRISPR/Cas genome editing offers transformative potential for crop pest management. This satellite symposium aims to explore the intersection of cutting-edge molecular techniques and applied pest management, fostering collaboration between researchers, industry experts, and policymakers.

Objectives

- Highlight recent advancements in insect Multi-Omics and their applications
- Discuss innovative tools like RNAi, CRISPR/Cas, and dsRNA nano-formulations
- Foster interdisciplinary collaborations to advance sustainable pest management

Focussed Themes

- Molecular Diversity, Diagnostic tools/kits of Insects and their Derived Resources
- Genomic Approaches for Sustainable Insect Pest Management
- Bio-prospecting of Bio-molecules for Insect Pest Management
- Bioinformatics in Pest Management: Data-Driven Strategies for Precision Control
- Policy recommendations for the safe deployment of molecular tools in pest control

Target Audience

- Scientists, Graduate students and Early-Career Researchers
- Policymakers, Environmentalists, and Industry Stakeholders

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