



Second circular

National Symposium

Smart Nematode Management for Climate-Resilient Agriculture: Protecting Soils, Ensuring Food Security



26-28 November, 2025



Venue: ICAR-Indian Institute of
Oilseeds Research, Hyderabad, India

Organized by



The Nematological Society of India

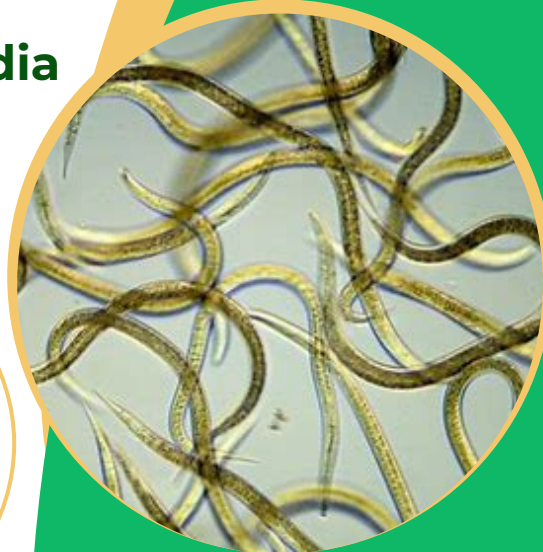
In Association with

Indian Council of Agricultural
Research

ICAR-IIOR, Hyderabad

ICAR-IIRR, Hyderabad

ICAR-NBPGR, RS, Hyderabad



About Symposium

The National Symposium on **“Smart Nematode Management for Climate-Resilient Agriculture: Protecting Soils, Ensuring Food Security”** is being organized by the Nematological Society of India (NSI) in collaboration with ICAR-IIOR, ICAR-IIRR, ICAR-NBPGR RS, Hyderabad

This symposium aims to bring together leading researchers, academicians, industry professionals, and policymakers to deliberate on innovative, sustainable, and climate-smart strategies for nematode management. With the increasing impact of climate change on soil health, crop productivity, and nematode dynamics, there is a pressing need to integrate advanced nematological research with resilient agricultural practices.

The scientific sessions will be held under key themes:

- Emerging Nematode Challenges Amidst Climate Change
- Beneficial Nematodes for Sustainable Agriculture
- Novel Approaches in Nematode Management: Molecules, Bioagents, Technologies
- Host Plant Resistance to Tackle Nematodes
- Application of cutting-edge technological interventions for Nematological research

The symposium will cover a wide array of technical areas including nematode biodiversity, plant-nematode interactions, entomopathogenic nematodes, soil microbiome interactions, genomics, effectors, biocontrol technologies, omics tools, and innovative management strategies.

This event offers a dynamic platform for scientific exchange, networking, and collaboration, and will facilitate the translation of research into field-level solutions for protecting crops and ensuring food security in a changing climate.



Symposium Themes



1. Emerging Nematode Challenges Amidst Climate Change

- Biodiversity of plant-parasitic nematodes, entomopathogenic, and free-living nematodes, quarantine nematodes
- Nematode community assemblies and bioindicator roles
- New nematode reports, taxonomy, systematics, phylogeography and nematode evolution under climate stress
- Risk assessment and modeling of emerging nematode threats



2. Beneficial Nematodes for Sustainable Agriculture

- Entomopathogenic nematodes (EPNs): diversity, biocontrol potential, and applications
- Formulation strategies for EPNs and their field delivery systems
- Soil microbiome interactions with beneficial nematodes
- EPN mode of action and host-seeking behavior
- Combined use of EPNs and microbial consortia for pest and nematode management



3. Novel Approaches in Nematode Management: Molecules and Bioagents

- New-generation nematicides: botanicals, biostimulants, and agrochemicals
- RNAi, gene editing, and nanotechnology in nematode control
- Integrated nematode management: Bioagents, cover crops, organic amendments, and anaerobic soil disinfestation (ASD)
- Cultural and eco-friendly management practices



4. Host Plant Resistance to Tackle Nematodes

- Molecular and conventional breeding for nematode resistance
- Nematode–plant interaction biology and host responses
- Role of resistance genes and QTL mapping
- Functional validation of resistance through gene expression and knockout studies
- Use of wild relatives and landraces for durable resistance



5. Application of cutting-edge technological interventions for Nematological research

- CRISPR-Cas and RNAi tools for functional genomics and gene silencing in nematodes.
- Nematode genomics, transcriptomics, metagenomics and microbiome analysis for studying nematode–microbe interactions.
- High-resolution imaging (CLSM, SEM) for nematode structural and behavioral studies.
- AI and machine learning in nematode diagnostics, phenotyping, and forecasting.



About the Nematological Society of India (NSI)



The Nematological Society of India (NSI), established in **1969** (Registration No. S/6065 under the **Societies Registration Act XXI of 1860**), is a premier scientific society committed to advancing the field of nematology in India. The Society's registered office is located at the **Division of Nematology, ICAR-Indian Agricultural Research Institute (IARI), New Delhi-110012, India.**

The NSI actively promotes research, education, and extension in all areas of nematology. It serves as a platform for scientific exchange by regularly publishing journals, periodicals, and other scholarly materials, thereby disseminating knowledge and innovative practices in nematode management and biology.

To foster collaboration and professional development, the Society organizes national and international symposia, conferences, and workshops, bringing together scientists, educators, and practitioners. These events help strengthen scientific networks and provide valuable feedback to researchers.

Since its inception, NSI has played a pivotal role in nurturing the nematological community in India and beyond. Its flagship publication, the Indian Journal of Nematology, launched in 1971, serves as a leading forum for publishing high-quality research and showcasing Indian advancements in nematology to the global scientific audience.

The NSI is a proud member of the International Federation of Nematological Societies (IFNS), with its President and General Secretary serving as Councillors of IFNS, representing India on the international stage.



National Symposium Organizing Committee

Chief Patron

Dr. M. L. Jat, Secretary, DARE & DG ICAR, New Delhi

Patrons

Dr. D. K. Yadava, DDG (Crop Science), ICAR, New Delhi

Dr. S. K. Singh, DDG (Horticultural Science), ICAR, New Delhi

Dr. Ch. Srinavasa Rao, Director, ICAR-IARI, New Delhi

Prof. Aldas Janaiah, Vice Chancellor, Professor Jayashankar Telangana Agricultural University, Hyderabad (Telangana)

Dr. R. Sarada Jayalakshmi Devi, Vice Chancellor, Acharya NG Ranga Agricultural University, Guntur, Andhra Pradesh

Dr. Sagar Hanuman Singh, IPoS, Director General, NIPHM, Hyderabad

Dr. Anil Kumar, ADG (Co-ordination), ICAR, New Delhi

Dr. Poonam Jasrotia, ADG (Plant Protection & Biosafety), ICAR, New Delhi

Dr. Shanti Kumar Sharma ADG (HRM), ICAR-KAB-II, New Delhi

Dr. G. P. Singh, Director, ICAR-NBPGR, New Delhi

Dr. R. K. Mathur, Director, ICAR-IIOR, Hyderabad, Telangana

Dr. R. M. Sundaram, Director, ICAR-IIRR, Hyderabad, Telangana

Dr. V. K. Singh, Director, ICAR-CRIDA, Hyderabad

Dr. Gopal Lal, Joint Director & Acting Director, ICAR-NAARM, Hyderabad

Dr. P. K. Singh, Agriculture Commissioner, Ministry of Agriculture & Farmers Welfare, New Delhi

National Advisory Committee

Dr. C. Vishwanathan, New Delhi.

Dr. P. P. Reddy, Bengaluru

Dr. D. J. Patel, Anand

Dr. H. S. Gaur, Noida

Dr. K. S. Varaprasad, Hyderabad

Dr. J. S. Prasad, Hyderabad

Dr. Mujeeb Rahman Khan, Aligarh

Dr. Mukesh Sehgal, New Delhi

Dr. E. I. Jonathan, Coimbatore

Dr. A. K. Sinha, Assam

Dr. S. Lingaraju, Bengaluru

Dr. H. K. Bajaj, Hisar

Dr. F. A. Zaki, Srinagar

Dr. Rajan, New Delhi

Dr. Bansa Singh, Kanpur,

Dr. M. Santha Lakshmi Prasad, Hyderabad

Dr. M. S. Rao, Bangalore

Dr. A. U. Siddiqui, Udaipur

Dr. R. K. Walia, Gurugram

Dr. Anil Sirohi, New Delhi

Dr. Gautam Chawla, New Delhi

Dr. R. V. Singh, New Delhi

Dr. A. K. Ganguly, New Delhi

Dr. S. C. Dhawan, New Delhi

Dr. A. K. Singh, New Delhi

Dr. N. A. Shakil, New Delhi

Dr. L. Saravanan, Hyderabad

Prof. P. Fazal Rahman, Hyderabad



National Symposium Organizing Committee

National Organising Committee

Chairman: Dr. Pankaj, President, NSI, New Delhi

Dr. Luqman Khan, Solan
Dr. M. Nagesh, Bangaluru
Dr. Rakesh Pandey, Lucknow
Dr. Bhabesh Bagawati, Jorhat
Dr. A. Shanthi, Coimbatore
Dr. M. S. Sheela, Vellayani
Dr. M. A. Siddiqui, Aligarh
Dr. B. Dash, Bhubneshwar
Dr. Qudsia Tahseen, Aligarh
Dr. Gulsar Banu, Coimbatore
Dr. Narpinder Kaur, Ludhiana
Dr. Pooja Ohri, Amritsar
Dr. Zakaullah Khan, New Delhi
Dr. Naved Sabir, New Delhi
Dr. Anju Kamra, New Delhi
Dr. Sharad Mohan, New Delhi
Dr. M. R. Khan, New Delhi
Dr. Anil Kumar Vats, Hisar
Dr. Uma Maheshwari, Bengaluru
Dr. B. Anita, Coimbatore
Dr. T. K. Dutta, New Delhi
Dr. Vikas Bamel, New Delhi
Dr. Mahendra Singh, New Delhi
Dr. Tariq H. Askari, Srinagar
Dr. Asgar Shah, Rajouri

Dr. Debanand Das, Jorhat
Dr. Rajan Salalia, Jammu
Dr. Anes, Kayamkulam
Dr. H. Kesava Kumar, Thiruvananthapuram
Dr. Giribabu, Tiruchirapalli
Dr. Jagdeesh Patil, Bengaluru
Dr. Devindrappa, Bengaluru
Dr. Manjunath Gowda, Varanasi
Dr. Bharat H. Gawade, New Delhi
Dr. Sunanda Sahu, Hyderabad
Dr. Shakti Singh Bhati, Jodhpur
Dr. K. Devrajan, Coimbatore
Dr. Swarnakumar N, Coimbatore
Dr. Vetrivelkalali P., Coimbatore
Dr. B. S. Chandrawat, Jobner
Dr. Hemraj Gujjar, Jaipur
Dr. V. S. Rana, New Delhi
Dr. Ajay Maru, Anand
Dr. J. Berliner, Wellington
Dr. Somnath S. Pokhare, Solapur
Dr. C Sellaperumal, Calicut
Dr. Rajkumar, Kasaragod
Dr. Nishi Keshari, Samastipur
Dr. Priyank H. Mhatre, Ooty
Dr. Yogesh E. Thorat, Pravaranagar



Organizing Team

National Organizing Secretary

Dr. Rashid Pervez, Principal Scientist & General Secretary, NSI, New Delhi

National Convener

Dr. Vishal S. Somvanshi, Principal Scientist, ICAR-IARI, New Delhi

Co-Conveners

Dr. Chandramani Waghmare, Sr. Scientist, ICAR-IARI, New Delhi

Dr. Ashish Kumar Singh, Scientist, ICAR-IARI, New Delhi

Local Organizing Secretaries

Dr. N. Somasekhar, Principal Scientist, ICAR-IIRR, Hyderabad

Dr. Prasanna Holajjer, Senior Scientist, ICAR-NBPGR, RS Hyderabad

Dr. Satish N. Chavan, Scientist, Nematology, ICAR-IIRR, Hyderabad

Dr. K. Sankari Meena, Scientist, Nematology, ICAR-IIOR, Hyderabad,



About the Venue



The ICAR-Indian Institute of Oilseeds Research (IIOR) is a premier National Institute under the aegis of the Crop Science Division of the Indian Council of Agricultural Research, New Delhi. IIOR is mandated to plan, coordinate and execute the research programmes to augment the production and productivity of Six crops including Sunflower, Safflower, Castor, Sesame, Niger and Linseed besides facilitating vegetable oil research and development. It is an ISO 9001-2008 complied institute.

Location and Climate

IIOR is located at Rajendranagar in Hyderabad on the south-west of Ranga Reddy district of Telangana. It is about 15 km away from Hyderabad Deccan Railway Station and Mahatma Gandhi Bus Station, and 17 km away from Rajiv Gandhi International Airport, Shamshabad. The overall climate will be pleasant during the event.

Places to visit



Golconda Fort



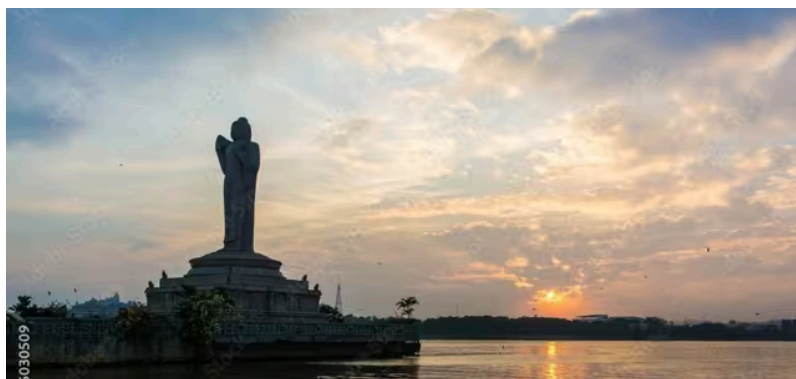
Ramoji Film City



Charminar



Statue of Equality



Hussain Sagar Lake

Registration

To register in symposium, please navigate to the link

<https://forms.gle/fg3ubnt4JPFrqZpd7>

or send the abstract and registration fee receipt at

nematodesymposium@gmail.com

Registration fee

Category	Early Bird Registration	On-Spot Registration
Students/RA/SRF	INR 2,500/-	INR 3,500/-
Scientists / Assistant Professors / Academicians	INR 6,000/-	INR 7,000/-
Corporate Participants	INR 10,000/-	INR 12,000/-

Abstract submission deadline: 30 September, 2025

Notification of abstract acceptance: 05 October, 2025

Early bird registration deadline: 10 October, 2025



Awards/Honour

Applications are invited for

1. Professor H. M. Shah Memorial Award
2. Fellow of Nematological Society of India
3. Professor D.J. Raski Academic Merit Award
4. Dr. (Mrs.) Sudershan Ganguly Memorial Young Scientist Research Presentation Award

Navigate the link to know more detail about awards

<https://nemaindia.org.in/awards/>

**Kindly submit the duly filled application form and send it to
nematodesymposium@gmail.com**

Contact Information

Email: nematologicalsociety@yahoo.com

Dr. Rashid Pervez: +91 73029 10036

Dr. Vishal Singh Somvanshi

Dr. Ashish Kumar Singh



REGISTRATION FORM

**National Symposium on Smart Nematode Management for
Climate-Resilient Agriculture: Protecting Soils, Ensuring Food Security
(26–28 November, 2025)**

Name of Participant

Designation/Title

Affiliation/Institution/University/College

Postal Address

City

Email

State

Mobile

Are you a Researcher/Scientist/Professor/Student/Research fellow/Industry professional?

**Abstract
title**

Type of presentation willing to do: Oral presentation/Poster presentation

Fee submission detail (UTR NO. with Date)

In favour

Account name: Nematological Society of India

Account number: 90292010005258

IFSC: CNRB0019029

Address: Canara Bank, Pusa campus, New Delhi-110012