

● FIRST CIRCULAR ●

# International Nematology Conference 2027

Nematodes – From Diagnostics to Solutions in Agri-Food Systems for Sustainability

📅 March 15–17, 2027

📍 NAAS Conference Hall, NASC Complex, Pusa, New Delhi – 110012



## BACKGROUND

Hidden beneath the soil surface, plant-parasitic nematodes represent one of the most persistent and “invisible” threats to global food security. These microscopic roundworms cause an estimated **\$157 billion** in annual crop losses worldwide, affecting everything from staple grains to high-value horticultural exports. Most nematodes typically attack the root system, impairing the plant’s ability to uptake water and essential nutrients. This often results in “hidden” symptoms that are easily misdiagnosed as nutrient deficiencies or drought stress. As global temperatures rise and international trade expands, the distribution of these pathogens is shifting, introducing aggressive species into newer territories. Effective management requires an integrated approach— combining genetic resistance, innovative biological control, and precision diagnostics, besides the nema- suppressive cultural practices and nematicides.

Entomopathogenic nematodes (EPNs) are gaining importance in today’s agricultural landscape as sustainable biocontrol agents against insect pests. With rising concerns over pesticide resistance, environmental hazards, and food security, EPNs provide an eco-friendly solution by parasitizing and killing pests rapidly through symbiotic bacteria. They are safe for humans, animals, and beneficial insects, making them ideal for integrated pest management programs. Their ability to function where chemicals fail enhances their value in modern farming. Despite challenges, EPNs remain crucial for reducing chemical dependency and ensuring sustainable crop protection in the current scenario.

Free-living nematodes such as *Caenorhabditis elegans* are vital in current biological research. As transparent, genetically tractable organisms, they serve as models for studying development, neurobiology, and aging. Recent work emphasizes their role in adapting to climate stress, shaping microbial environments, and revealing genome diversity through advanced sequencing. Their ecological presence as soil dwellers makes them indicators of environmental health, while their laboratory utility continues to expand with new technologies. In today’s context, *C. elegans* bridges fundamental biology with applied research, offering insights into evolution, sustainability, and human health.

Even after more than six decades of active nematology research, teaching and extension programmes, the awareness among farmers remains poor. Human resources in Nematology have remained scanty and patchy. Over the decades several new technologies including biotechnology, computer science, IoT, artificial intelligence etc. have evolved much. Adoption of these can greatly help Nematology.

This conference will serve as a vital platform for nematologists to share breakthroughs that bridge the gap between laboratory research and sustainable solutions both in basic and applied research.

## KEY THEMES

- ▶ Conventional and modern nematode diagnostic tools
- ▶ Use of nematodes as model systems to unravel issues related to environment and human health
- ▶ AI and ML applications in Nematology
- ▶ Molecular aspects of nematode, plant, insect and microbial relationships
- ▶ Role of nematodes in the management of insect pests
- ▶ Harnessing microbial potential for durable nematode management
- ▶ Integrated and sustainable nematode management based on green technologies
- ▶ Economically viable, environmentally sustainable farmer-centric advisory systems
- ▶ Climate change and cropping system driven futuristic nematode problems and policy issues
- ▶ Human resource development and employment in Nematology

## ORGANIZERS & KNOWLEDGE PARTNERS

- ▶ Nematological Society of India
- ▶ Brazilian Society of Nematology
- ▶ National Academy of Agricultural Sciences
- ▶ Indian Council of Agricultural Research
- ▶ IARI – Delhi
- ▶ CIMMYT – Delhi
- ▶ ICRISAT – Hyderabad
- ▶ CABI – Delhi
- ▶ CIP – Delhi
- ▶ Bioversity International and CIAT – Delhi

## KEY OBJECTIVES

- ▶ Update on recent research trends and findings through dedicated thematic sessions
- ▶ Provide opportunities for networking and knowledge sharing among scientists from related disciplines
- ▶ Inspire young minds for innovative research through discourses by eminent scientists and institutional awards
- ▶ Decision-making on futuristic research through brainstorming discussions on the key issues
- ▶ Promote industry-scientist-farmer linkage and interface
- ▶ Sensitizing policy makers on economic importance of nematodes to the farming community specifically and nation largely

## CONFERENCE STRUCTURE

**Inaugural Session:** *Speeches by Chief Guest, Guests of Honour on policy issues, current knowledge and conference themes*

**Plenary Lecture:** *Delivered by eminent global leader on a topic of broader interest*

**Keynote Lectures:** *Delivered on thematic topics by global experts*

**Panel Discussion:** *Brain-storming discussions on important issues warranting policy framing*

**Thematic Sessions:** *Discussions on current research themes following lead lectures by eminent scientists*

**Poster Presentations:** *Providing opportunities for young researchers to showcase their work*

**Academia-Industry Interface:** *Presentations by corporate representatives on new developments in industry*

**Institutional Awards:** *Competition/Conferment of various NSI awards to contestants/recipients*

**Post-Conference Tours:** *Visits to tourists' places in and round Delhi for delegates and families*

## PLENARY LECTURE

- ▶ A Worldwide Perspective on Nematology

## KEYNOTE LECTURES

- ▶ Molecular and physiological basis of survival in plant parasitic nematodes
- ▶ *Caenorhabditis elegans*: A unique Tools for Biomedical and Agricultural Sciences
- ▶ *Caenorhabditis elegans* as a model organism to help develop novel nematode control strategies
- ▶ Eradicating Potato Cyst Nematode – The Australian Model
- ▶ Human Resource Model for Nematology
- ▶ Integration of Taxonomy and Genomics for Nematode Management
- ▶ Molecular aspects of plant–nematode interaction
- ▶ Plant Nematode Taxonomy: A Global scenario
- ▶ Management of Cereal Nematodes
- ▶ New green nematicides for enhanced yields: A Soybean model
- ▶ Nematode Management in Perennial Plantation Systems: Biological Innovations, Climate Pressures and the INM Imperatives
- ▶ Bio-agriculture for a Changing World – Challenges and Opportunities

## CALL FOR PAPERS

### Submission Deadline: December 31, 2026

Abstracts of papers are invited not exceeding 350 words for lead/invited talk and competition awards. For poster presentations, abstracts have a word limit of 250 words. Abstracts typed in 12-point font size of MS Word may be submitted online (mrkhan.amu@gmail.com or editor.ijn2025@gmail.com).

### Poster Specifications:

The size of the poster for the display should be 75 × 100 cm briefly showing the Title, Methodology, Results, and Conclusion with maximum three tables and good quality photographs. It should be clearly readable from a distance of at least one meter. The oral/poster presentations will be evaluated by a panel of judges for the best oral as well as poster presentation award.

## REGISTRATION FEE

**Early Bird Deadline: November 30, 2026** | **Standard Deadline: January 31, 2027**

Category	Till Jan 31, 2027 (INR)	Feb 1 Onwards (INR)	Foreign Delegates (USD)
NSI Life Member	₹5,000	₹6,000	—
Non-NSI Member	₹10,000	₹12,000	\$100
NSI Student Life Member	₹2,000	₹2,500	\$25
Student Non-Member	₹3,000	₹3,500	\$50
JRF/SRF/RA	₹4,000	₹4,500	\$75
Corporate (each person)	₹25,000	—	—

A pre-registration fee of INR (₹) 1,000 per abstract (adjustable in the registration fee but not refundable) is to be paid at the time of submission of the abstract. Abstract acceptance will be given only after receiving the full registration fee. Payments must be made online to: **Nematological Society of India**, Canara Bank, **A/c No. 90292010005258**, IFSC code: CNRB0019029, MICR: 110015391, Branch (Delhi Pusa Campus), New Delhi-110012, India.

## NSI AWARDS

Prof. DJ Raski Academic Merit Award	Prof. HM Shah Memorial Award	GI D'Souza Memorial Award	Dr. Mrs. Sudarshan Ganguly Memorial Young Scientist Research Presentation Award	Life Time Achievement Award
---	---------------------------------	------------------------------	---	--------------------------------

The applications should reach the Secretary, NSI on or **before January 31, 2027**, via email: [nematologicalsociety@gmail.com](mailto:nematologicalsociety@gmail.com). For details and updates, if any, please visit the NSI website: <https://www.nemaindia.org.in/>

## WHO SHOULD PARTICIPATE

Researchers and teachers, extension workers in plant protection in general and nematology in particular among academia; masters and doctoral students in the discipline; policymakers and government officials engaged in agriculture/plant protection; NGOs and environmental advocacy groups; farmers and govt. agricultural extension specialists; and representatives from industry.

## EXPECTED OUTCOMES

- ▶ Generate new knowledge and insights related to the conference theme
- ▶ Facilitate the exchange of knowledge and practical experiences of international nematologists
- ▶ Provide innovative solutions to address green solutions for nematode problems of crops
- ▶ Strengthen collaborations and partnerships among stakeholders
- ▶ Raise public awareness about the importance of nematodes to agriculture
- ▶ Inspire future generations to engage in the field of agriculture, plant protection, and nematology

## CHIEF PATRONS

- **Dr. Mangi Lal Jat**, President, NAAS, Secretary DARE & DG ICAR
- **Dr. Himanshu Pathak**, DG ICRISAT, Ex. Secretary DARE & DG ICAR, Ex-President, NAAS

## PATRONS

- **Dr. D. K. Yadav**, DDG Crop Science, ICAR
- **Dr. S. K. Singh**, DDG Horticultural Science, ICAR
- **Dr. Yashpal Singh Malik**, DDG Education, ICAR
- **Dr. A.K. Singh**, Secretary, NAAS & Ex-Director, IARI
- **Dr. Ch Srinivasa Rao**, Director, IARI
- **Dr. H.S. Gaur**, Ex VC, SVPUAT & Ex Dean & JD (Edu), IARI
- **Dr. D.J. Patel**, Ex-Dean, AAU, Anand
- **Dr. P. Parvatha Reddy**, Ex Director, IIHR
- **Dr. K.S. Varaprasad**, Ex Director, IIOR

## INTERNATIONAL ADVISORY COMMITTEE

- **Prof. Richard A. Sikora**, Germany
- **Dr. S. B. Sharma**, Australia
- **Dr. H. M. Rohini Ekanayake**, Sri Lanka
- **Dr. Sergei Subbotin**, USA
- **Dr. Mahfouz M. M. Abd-Elagawad**, Egypt
- **Dr. Zahira Tanha Mafi**, Iran
- **Dr. D. Premachandran**, USA

The International Advisory Committee provides global guidance on scientific content, speaker selection, and outreach for INC 2027.

## ADVISORY COMMITTEE

- **Dr. P.K. Chakrabarty**, Ex-Member ASRB
- **Dr. T. Venkatesan**, Director (Actg), ICAR-NBAIR
- **Dr. Raman Thangavelu**, Director, ICAR-NCIPM
- **Dr. Poonam Jasrotia**, ADG (PP&B), ICAR
- **Dr. Y.S. Shivay**, ADG (NASF), ICAR
- **Dr. M.S. Saharan**, Head, Division of Plant Pathology, IARI
- **Dr. M. Dhillon**, Head, Division of Entomology, IARI
- **Dr. Pankaj**, Head, Division of Nematology, IARI
- **Dr. Gautam Chawla**, Project Coordinator, AICRP (Nematodes)
- **Dr. Wasim Ahmad**, NAAS Fellow
- **Dr. Q.H. Baqri**, NAAS Fellow
- **Dr. Mujeebur Rahman Khan**, NAAS Fellow
- **Dr. Rakesh Pandey**, NAAS Fellow
- **Dr. M.S. Rao**, NAAS Fellow
- **Dr. Zaki Anwar Siddiqui**, NAAS Fellow
- **Dr. Kamal Khilari**, Director Research, SVPUAT
- **Dr. F.A. Zaki**, Jammu & Kashmir
- **Dr. N Mohilal Meitei**, Manipur
- **Dr. Y.S. Chandel**, Himachal Pradesh
- **Dr. Anil Sirohi**, Delhi
- **Dr. N.K. Dhillon**, Punjab
- **Dr. Lingaraju S.**, Karnataka
- **Dr. H.K. Bajaj**, Haryana
- **Dr. B.L. Baheti**, Rajasthan
- **Dr. H.R. Patel**, Gujarat
- **Dr. M. Sivakumar**, Tamil Nadu
- **Dr. M.S. Sheela**, Kerala
- **Dr. Jayant Bhatt**, Madhya Pradesh
- **Dr. J.S. Prasad**, Telengana
- **Dr. K.N. Pathak**, Bihar
- **Dr. B.N. Chaudhury**, Assam
- **Dr. K.C. Mohanty**, Odisha

## ORGANISING COMMITTEE

## KEY ROLES

- **Dr. R.K. Walia**
  - **Dr. Matiyar Rahaman Khan** (New Delhi)
  - **Dr. Rashid Pervez**
  - **Dr. Chandiramani Waghmare**
  - **Dr. Rajan Salalia**
  - **Dr. Debanand Das**
  - **Dr. S.S. Bhati**
  - **Dr. Prasanna Holejjar**
  - **Dr. Vetrivelkai, P.**
  - **Dr. Bharat Gawade**
- |                          |  |
|--------------------------|--|
| Organizing Secretary:    | <b>Dr. Rashid Pervez</b>   |
| International Conveners: | <b>Dr. Matiyar Rahaman Khan;</b><br><b>Dr. Raman Kumar Walia</b> |
| Editorial Committee:     | <b>Dr. Mujeebur Rahman Khan</b><br><b>Dr. Tushar Kanti Dutta</b> |
| Treasurer:               | <b>Dr. Chandiramani Waghmare</b>                                 |

## CONFERENCE SECRETARIAT & DATES / VENUE

### Conference Dates and Venue:

The conference date: March 15-17, 2027

**Venue:** NAAS Conference Hall (NASC complex), Pusa, New Delhi – 110 012, India

### Dr. Rashid Pervez

#### Organizing Secretary

✉ [nematologicalsociety@gmail.com](mailto:nematologicalsociety@gmail.com)

☎ +91 7302910036

### Dr. Matiyar Rahaman Khan

#### International Convener

✉ [mrkhan.icar@gmail.com](mailto:mrkhan.icar@gmail.com)

☎ +91 9433362293

**Website:** [www.nemaindia.org.in](http://www.nemaindia.org.in)

## HOW TO REACH THE VENUE

New Delhi, being capital of India, is very well connected internationally by air, and nationally by air and railways. The nearest airport is the Indira Gandhi International Airport; Terminal 3 caters to the international flights, and Terminals 1, 2, and 3 handle domestic flights. Trains originating from different parts of India terminate at one of the five stations i.e., Old Delhi railway station, New Delhi railway station, Hazrat Nizamuddin railway station, Anand Vihar railway station, and Delhi Sarai Rohilla station.

Prepaid cabs are available from all airport terminals and railway stations for NASC complex, Pusa, New Delhi. The conference venue and guest house (where some of the delegates will stay), are located in the same campus. Some delegates, may be lodged in nearby hotels (to be notified); for them local transport facility will be communicated.

## PLACES OF INTEREST – POST- CONFERENCE TOURS

Depending upon the demand of the delegates, a special tour can be arranged for Taj Mahal at Agra (about 230 km from Delhi), or tour of heritage city of Jaipur (about 270 km from Delhi), on the fourth day after the conference is over.

### Taj Mahal, Agra

One of the Seven Wonders of the World, ~230 km from Delhi. A special tour will be arranged on demand on Day 4 post-conference

### Heritage City of Jaipur

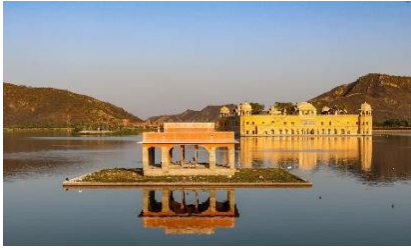
Hawa Mahal, City Palace, Jal Mahal, Amer Fort, Albert Hall Museum, Shopping Arcade

## REGISTRATION INFORMATION

**Early Bird Registration Deadline:** November 30, 2026 | **Standard Registration Deadline:** January 31, 2027



Taj Mahal, Agra



Jal Mahal, Jaipur



City palace, Jaipur



Hawa Mahal, Jaipur



Amer Fort, Jaipur



Albert Hall Museum, Jaipur



Shopping arcade, Jaipur

## OUR COLLABORATORS



Alliance



SOCIEDADE BRASILEIRA DE NEMATOLOGIA

## REGISTRATION FORM

# International Nematology Conference 2027

**Nematodes – From Diagnostics to Solutions in Agri-Food Systems for Sustainability**

March 15-17, 2027 | NAAS Conference Hall, NASC Complex, Pusa, New Delhi, India

Name: \_\_\_\_\_  
Designation: \_\_\_\_\_ Organization: \_\_\_\_\_  
Postal Address: \_\_\_\_\_  
Mobile No. with country code: \_\_\_\_\_ WhatsApp No.: \_\_\_\_\_  
E-mail ID: \_\_\_\_\_

I am interested in participating in the International Nematology Conference-2027. I would like to present my research as an oral presentation/poster on (Title of the paper)

1: \_\_\_\_\_  
2: \_\_\_\_\_

For accompanying person/spouse, No.: \_\_\_\_\_ Name of the person/spouse: \_\_\_\_\_

Registration category (additional INR 2500/- per head for the accompanying person)

<input type="checkbox"/> Member	<input type="checkbox"/> Non-Member	<input type="checkbox"/> Student	<input type="checkbox"/> RA/JRF/SRF
---------------------------------	-------------------------------------	----------------------------------	-------------------------------------

Duration of stay: ..... days Date: From ..... to .....

Arrival and Departure details: \_\_\_\_\_

Registration Fee: \_\_\_\_\_

**Payment details:** Attach the online transfer money proof made in favour of: Nematological Society of India. Payments must be made online to: **Nematological Society of India**, Canara Bank, **A/c No. 90292010005258**, IFSC code: CNRB0019029, MICR: 110015391, Branch (Delhi Pusa Campus), New Delhi-110012, India.

Date: \_\_\_\_\_ Place: \_\_\_\_\_ Signature: \_\_\_\_\_

Fill up this form and email the pdf or scanned copy to Dr. MR Khan or Dr. Rashid Pervez.

## CONTACT US

**Dr. Rashid Pervez**

Organizing Secretary

✉ [nematologicalsociety@gmail.com](mailto:nematologicalsociety@gmail.com)

☎ +91 7302910036

**Dr. Matiyar Rahaman Khan**

International Convener

✉ [mrkhan.icar@gmail.com](mailto:mrkhan.icar@gmail.com)

☎ +91 9433362293

 [www.nemaindia.org.in](http://www.nemaindia.org.in)

For sponsorship, advertisement, and stall booking, please contact:  
Dr. Matiyar Rahaman Khan or Dr. Rashid Pervez (contact details as above)