



ICAR-approved HRD training programme

## Division of Nematology

ICAR-Indian Agricultural Research Institute,  
New Delhi 110 012



21-25 September 2026

# Detection and diagnostics for Nematode-induced diseases in agri-horti crops

Venue

## Division of Nematology

ICAR-IARI, Pusa Campus, New Delhi 110 012

Duration

5 days

Seats

25 participants

Selection by nomination

Apply by

15 September 2026



Chief Patron

**Dr Ch. Srinivasa Rao**

Director, ICAR-IARI, New Delhi

Co-Patron

**Dr Viswanathan Chinnusamy**

Joint Director (Research), ICAR-IARI, New Delhi

Co-Patron

**Dr Anupama Singh**

Joint Director (Education) and Dean, ICAR-IARI, New Delhi

Programme Director

**Dr Pankaj**

Head, Division of Nematology, ICAR-IARI, New Delhi

Programme Coordinator

**Dr Rashid Pervez**

Principal Scientist

Programme Coordinator

**Dr Vishal S. Somvanshi**

Principal Scientist

Programme Coordinator

**Dr K. V. V. S. Kranti**

Senior Scientist

Programme Coordinator

**Dr Ashish K. Singh**

Scientist

# Who should attend

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- Scientists of ICAR institutes and ICAR-recognised organisations working in nematology, plant pathology, entomology, horticulture or crop protection
- Teaching and research faculty of State Agricultural Universities
- Technical officers (T6) running or setting up diagnostic laboratories
- Scientists/SMS of KVKs handling farmer samples and advisories

## Programme themes

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### 1

Mon 21 Sep

#### Setting the context

- Inauguration and overview of the course
- Nematode diseases of crops in India and their economic impact
- AI tools and the microscope in nematode identification

### 2

Tue 22 Sep

#### Isolation, mounting and community analysis

- Identification of important nematode genera
- Sampling, isolation from soil and plant, and temporary and permanent mounts
- Community and soil health indices analysis

### 3

Wed 23 Sep

#### Taxonomy and field diagnosis

- Numerical taxonomy and morphometric characterisation
- Aerial nematodes, and root-knot species by perineal pattern
- Field exposure at the CPCT polyhouse and IARI experimental fields

### 4

Thu 24 Sep

#### Molecular diagnostics

- Classical molecular techniques for plant-parasitic and entomopathogenic nematodes
- Nucleic acids and the polymerase chain reaction
- DNA extraction, setting up a PCR reaction and gel electrophoresis

### 5

Fri 25 Sep

#### Advanced diagnostics and regulation

- Advanced molecular methods and working with DNA sequences
- Bioinformatics for nematode diagnosis and taxonomy
- Quarantine nematodes; impact analysis and valediction

Sessions run from 09:00 to 17:00 each day, with practical work through the afternoon.

# What you will learn

- Recognise Nematode-induced diseases of field, horticultural and protected crops, and appreciate the losses they cause in India
- Collect samples, isolate nematodes and prepare mounts to a diagnostic standard
- Identify genera and species by microscopy, morphometrics, perineal patterns and AI-assisted tools
- Calculate community and soil health indices and interpret them for advisory use
- Carry out DNA extraction, PCR and gel electrophoresis, and analyse sequences with bioinformatics tools
- Understand which nematodes are of quarantine concern and the evidence a phytosanitary decision requires

# How to apply

1. Complete the nomination proforma circulated with this announcement, or apply through the email.
2. Have the nomination forwarded by the Head of your Division or Department and countersigned by the competent authority of your institution.
3. Send the forwarded nomination to reach the Programme Director on or before 15 September 2026.

**Registration fee.** Rs. 1500/- (non-refundable)

**Please note.** No TA/DA will be provided by the Institute. Participants are required to meet travel and daily expenses from their respective institutions.

|                                    |                |                              |
|------------------------------------|----------------|------------------------------|
| Account details for fee submission | Account Holder | Director, ICAR-IARI          |
|                                    | Bank Name      | Canara Bank                  |
|                                    | Branch         | IARI, Pusa Campus, New Delhi |
|                                    | IFSC Code      | CNRB0019029                  |
|                                    | Account Number | 90293050000017               |

# Contact

Correspondence

**Dr Pankaj**

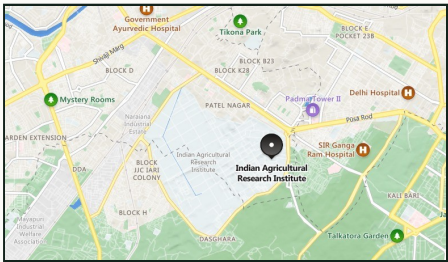
Head, Division of Nematology  
ICAR-IARI, Pusa Campus  
New Delhi 110 012

Email

**pankaj\_nema@yahoo.com**

Telephone

**+91 98688 43554**



# Nomination proforma

Please complete every field in block letters. Incomplete or unforwarded nominations cannot be considered.

## Part A — Particulars of the nominee

1 Name in full (Dr / Mr / Ms)

2 Designation

3 Institution and full postal address

4 Date of birth

5 Sex

6 Highest qualification

7 Discipline / specialisation

8 Length of service (years)

9 Category (ICAR / SAU / State dept. / other)

10 Mobile number

11 Email address

**Declaration.** I have read the announcement of the programme. The particulars given above are correct to the best of my knowledge. If selected, I undertake to attend the full duration of the programme from 21 to 25 September 2026 and to abide by the rules of the Institute.

\_\_\_\_\_  
Signature of the nominee

\_\_\_\_\_  
Place and date

## Part B — Forwarding and endorsement by the sponsoring authority

The nomination of the above candidate is forwarded and recommended. The officer will be relieved to attend the programme, and travel and other expenses will be met as per the rules of this institution.

\_\_\_\_\_  
Signature, name and designation of the Head of Institution /  
competent authority

\_\_\_\_\_  
Office seal, place and date

## Where to send this form

Send the completed and duly forwarded proforma, scanned as a single PDF, by email to either of the Programme Coordinators:

**[pankaj\\_nema@yahoo.com](mailto:pankaj_nema@yahoo.com) · [rashidpervez2003@gmail.com](mailto:rashidpervez2003@gmail.com)**

Please write “Nomination — Nematode Detection and Diagnostics, September 2026” in the subject line. A hard copy may also be sent to the Programme Director, Division of Nematology, ICAR-Indian Agricultural Research Institute, Pusa Campus, New Delhi 110 012. Selected candidates will be informed by email; nominations received after the last date will be placed on the waiting list.