



INTERNATIONAL SEMINAR  
ON

# INNOVATION ON RESILIENCE: INTEGRATING GENETICS, CROP MANAGEMENT AND VARIETAL PROTECTION FOR SUSTAINABLE AGRICULTURE

## INRESA - 2026



DATE: 05.03.2026 & 06.03.2026

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### ORGANISED BY

DEPARTMENT OF GENETICS AND PLANT BREEDING  
FACULTY OF AGRICULTURE, ANNAMALAI UNIVERSITY  
ANNAMALAI NAGAR, CHIDAMBARAM, TAMIL NADU, INDIA.

### SPONSORED BY

PROTECTION OF PLANT VARIETIES AND FARMERS' RIGHTS AUTHORITY  
PLANT AUTHORITY BHAWAN, DEV PRAKASH SHASTRI MARG,  
NEAR NASC COMPLEX, OPP. TODAPUR VILLAGE, NEW DELHI - 110012.





# ABOUT THE ORGANIZERS

## ANNAMALAI UNIVERSITY

Annamalai University, one of the largest Universities in terms of disciplinary diversity and student enrolment, is also one of the oldest universities in South India. Sprawling over a vast and sylvan campus of 1000 acres, the University houses about 50 Departments of study under Eight Faculties. Founded by, Rajah Sir Annamalai Chettiyar in 1929, Annamalai University has played a key role in social, cultural, and economic uplift of the people across the rungs of society for nearly a century. The on-campus programmes are duly approved/accredited by the competent bodies such as NAAC, NBA, AICTE, NCTE, ICAR, etc. In 2022, the University is accredited with 'A+' Grade by NAAC in the fourth cycle of accreditation.

## FACULTY OF AGRICULTURE

The Faculty of Agriculture at Annamalai University, under the leadership of Prof. Dr. K. Haripriya, fosters innovation across key agricultural disciplines. With a strong focus on resilience, innovation, and farmer-oriented development, the Faculty continues to contribute significantly to the advancement of sustainable agriculture in India.

## DEPARTMENT OF GENETICS AND PLANT BREEDING

The Department of Genetics & Plant Breeding at Annamalai University is a leading academic and research unit dedicated to crop improvement. Established originally as the Department of Agricultural Botany in 1980, it now offers advanced programmes including M.Sc (Ag.) in Genetics & Plant Breeding and a doctoral programme in Genetics and Plant Breeding discipline. With a strong focus on varietal development, molecular Plant breeding and seed technology, the department fosters innovation and contributes to sustainable agriculture in line with current challenges. Its comprehensive approach to teaching, research and impact ensures that graduates are equipped to drive resilience and innovation in agricultural systems.

## PREAMBLE OF THE SEMINAR

Agriculture today faces unprecedented challenges arising from climate variability, resource limitations, emerging biotic and abiotic stresses, and the need to ensure food and nutritional security for a growing population. Building resilience within agricultural systems has therefore become a central priority for sustainable development. Innovation, when effectively integrated across genetics, crop management, and varietal protection, offers powerful pathways to enhance productivity while safeguarding natural resources.

Advances in genetics, genomics, and plant breeding have enabled the development of climate-resilient, resource-efficient crop varieties capable of adapting to changing environments. When complemented by improved crop and plant health management practices, these genetic gains can be translated into stable field-level performance. Equally important is the role of varietal protection, seed systems, and farmers' rights in ensuring that innovations are recognized, responsibly deployed, and equitably accessible.

The international seminar, provides a multidisciplinary platform for researchers, breeders, policymakers, extension professionals, and industry stakeholders to share knowledge, exchange innovations, and develop strategies for resilient, sustainable, and farmer-centric agricultural systems.

# THEMES

## GENETIC, GENOMIC AND BIOTECHNOLOGICAL INNOVATIONS

- Functional genomics and trait discovery for stress resilience
- Molecular breeding, genomic selection, and precision breeding
- Genome editing and advanced biotechnological tools
- Omics-based approaches for climate-resilient crops
- Plant Stress Physiology and Adaptive Mechanisms

1

## PLANT BREEDING FOR CLIMATE RESILIENCE AND SUSTAINABILITY

- Conventional and advanced plant breeding strategies
- Pre-breeding and utilization of genetic resources
- Development of high-yielding, climate-resilient varieties
- Breeding for nutrient use efficiency and quality traits

2

## CROP MANAGEMENT INNOVATIONS

- Integrated crop management approaches
- Climate-smart agriculture and sustainable production systems
- Precision nutrient, soil, water and resource management
- Digital agriculture and smart farming technologies

3

## PLANT HEALTH AND SUSTAINABLE CROP PROTECTION

- Integrated pest and disease management
- Biological and eco-friendly crop protection strategies
- Resistance-based approaches to biotic stresses
- Plant health diagnostics and surveillance
- Agricultural bio-inputs for sustainable crop protection

4

## VARIETAL PROTECTION, SEED SYSTEMS AND FARMERS' RIGHTS

- Plant Variety Protection and regulatory frameworks
- Farmers' rights, benefit sharing and seed sovereignty
- Quality seed systems and varietal deployment
- Policy support for sustainable varietal innovation

5

## AGRICULTURAL ECONOMICS AND TECHNOLOGY EXTENSION

- Economics of climate-resilient agricultural technologies
- Technology transfer, adoption and extension strategies
- Socio-economic impact assessment of innovations

6

## CROSS-CUTTING AND EMERGING INNOVATIONS

- Ecosystem resilience and agroecological approaches
- Food system sustainability
- Inclusive, farmer-centric innovation models
- Research areas related to Agriculture and Allied Sciences

7

# IMPORTANT DATES

**Last date for registration and abstract submission**

**23.02.2026**

**Communication of abstract acceptance**

**25.02.2026**

**Last date for full paper submission**

**28.02.2026**

**Seminar date**

**05.03.2026 & 06.03.2026**

## CALL FOR PAPERS

- Original research articles, review papers, and case studies aligned with the seminar themes are invited.
- Abstracts will be screened by the Seminar Committee for relevance and presentation mode.
- Registration and abstract submission must be completed through the seminar website (<http://inresa-2026-seminar-au.web.app>) within the stipulated deadline.



Outstanding oral and poster presentations will be awarded for each session.

**Note:**

- Certificates will be issued only to the First Author of the accepted paper/presentation.
- Certificates for co-authors will be issued only if they register individually.



# ABSTRACT FORMATTING GUIDELINES & PUBLICATION DETAILS

- **Title:** Times New Roman, font size 12, bold
- **Authors:** Times New Roman, font size 11, bold (Corresponding author should be indicated with an asterisk \*)
- Corresponding author's email: To be provided below the author list
- **Abstract text:** Times New Roman, font size 12, single-spaced, unbolded
- **Word limit:** Maximum 300 words

- All accepted and presented papers will be published in the Seminar Proceedings with ISBN.
- Selected full-length papers, meeting the scope and submission guidelines of **Plant Science Today, (NAAS-6.8)** will be published in a **Special issue**, subject to the journal's peer-review process. Publication charges will be applicable as per the journal's prescribed fee structure.



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# Registration

Participants are requested to register through the website link.

<http://inresa-2026-seminar-au.web.app>

## Registration Fee

- Students and Research Fellows: ₹500
- Faculty / Scientists / Others: ₹1,000

The registration fee includes access to all scientific sessions, seminar materials, working lunch and refreshments.

**Accommodation:** Available in university hostel/ guest house as per preference (payment basis). Selection through registration link.

## PAYMENT DETAILS

**ACCOUNT HOLDER:** THE REGISTRAR, ANNAMALAI UNIVERSITY

**ACCOUNT NUMBER:** 621201156619

**IFSC CODE:** ICIC0006212

**BRANCH :** ANNAMALAI NAGAR

## TRAVEL

Chidambaram is a prominent university town in Tamil Nadu and is well connected by road and rail. Annamalai University is located close to the town centre and is easily accessible from major cities.

**Nearest Airport:** Pondicherry Airport ( $\approx 70$  km)

**Alternate Airports:** Tiruchirappalli International Airport ( $\approx 195$  km), Chennai International Airport ( $\approx 245$  km)

**Nearest Railway Station:** Chidambaram Railway Station

**Major Rail Connectivity:** Chennai, Tiruchirappalli, Madurai, Bengaluru



SCAN FOR VENUE



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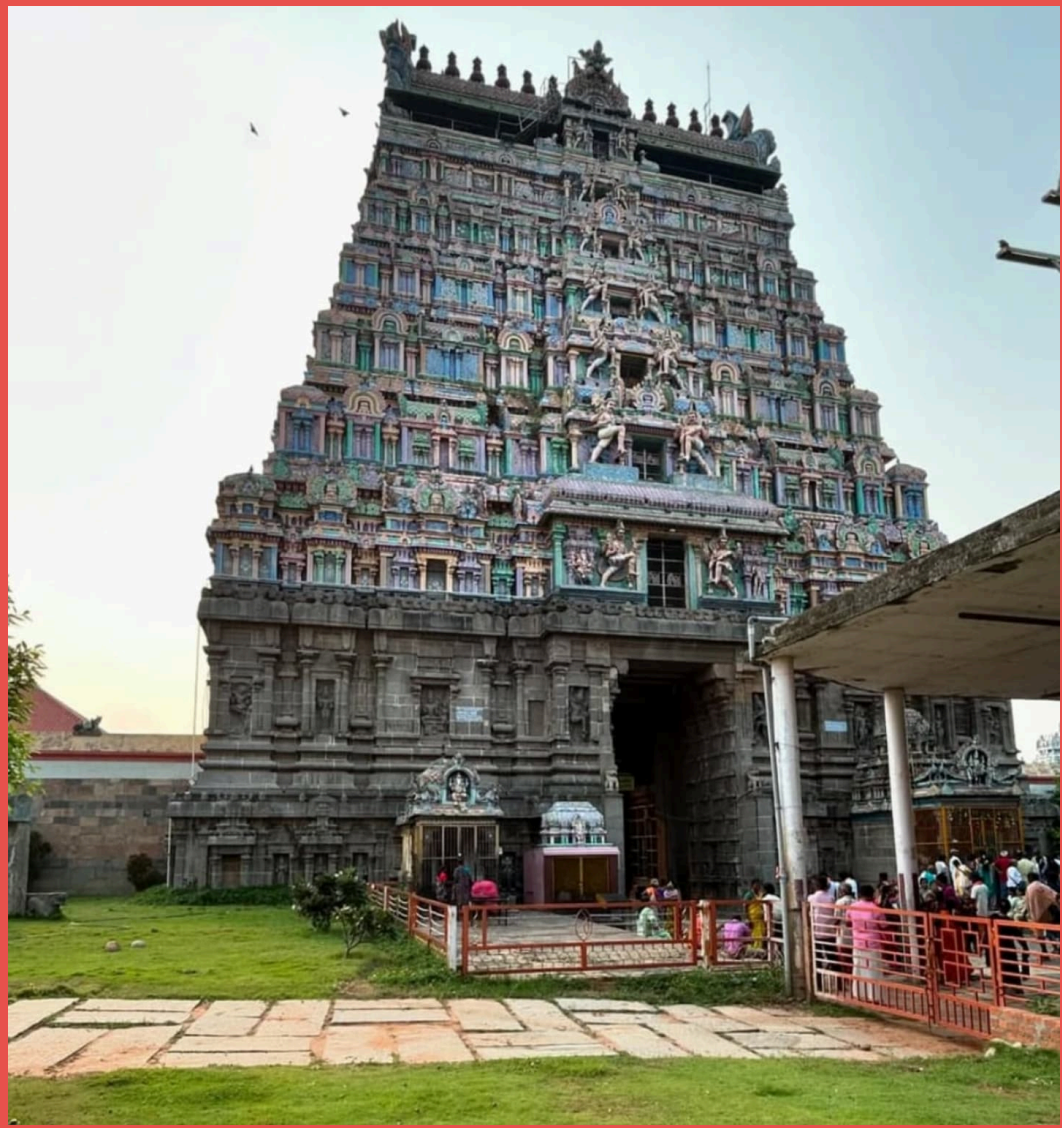
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# NEARBY PLACES TO EXPLORE



## CHIDAMBARAM NATARAJA & THILLAI GOVINDARAJA TEMPLE

One of India's most revered temple towns, Chidambaram is home to Lord Nataraja, the cosmic dancer in the Ananda Tandava posture. It is the only temple complex where Lord Nataraja and Thillai Govindaraja are worshipped under the same roof. The temple is also renowned for the mystical "Secret of Chidambaram" (Chidambara Rahasyam), symbolizing the formless nature of the divine.



## PICHAVARAM MANGROVE FOREST

Located just 11 km east of Chidambaram, Pichavaram is one of the largest mangrove ecosystems in the world, spread across vast backwaters and canals. A paradise for nature lovers and botanists, it hosts rare mangrove species such as Avicennia and Rhizophora, offering serene boat rides amidst rich biodiversity.



## PUDUCHERRY (PONDICHERRY)

Situated along the Chennai-Chidambaram route, Puducherry is known for its French colonial charm and spiritual heritage. The Sri Aurobindo Ashram and Auroville, a unique experimental township dedicated to human unity, make it a tranquil destination for reflection and exploration.