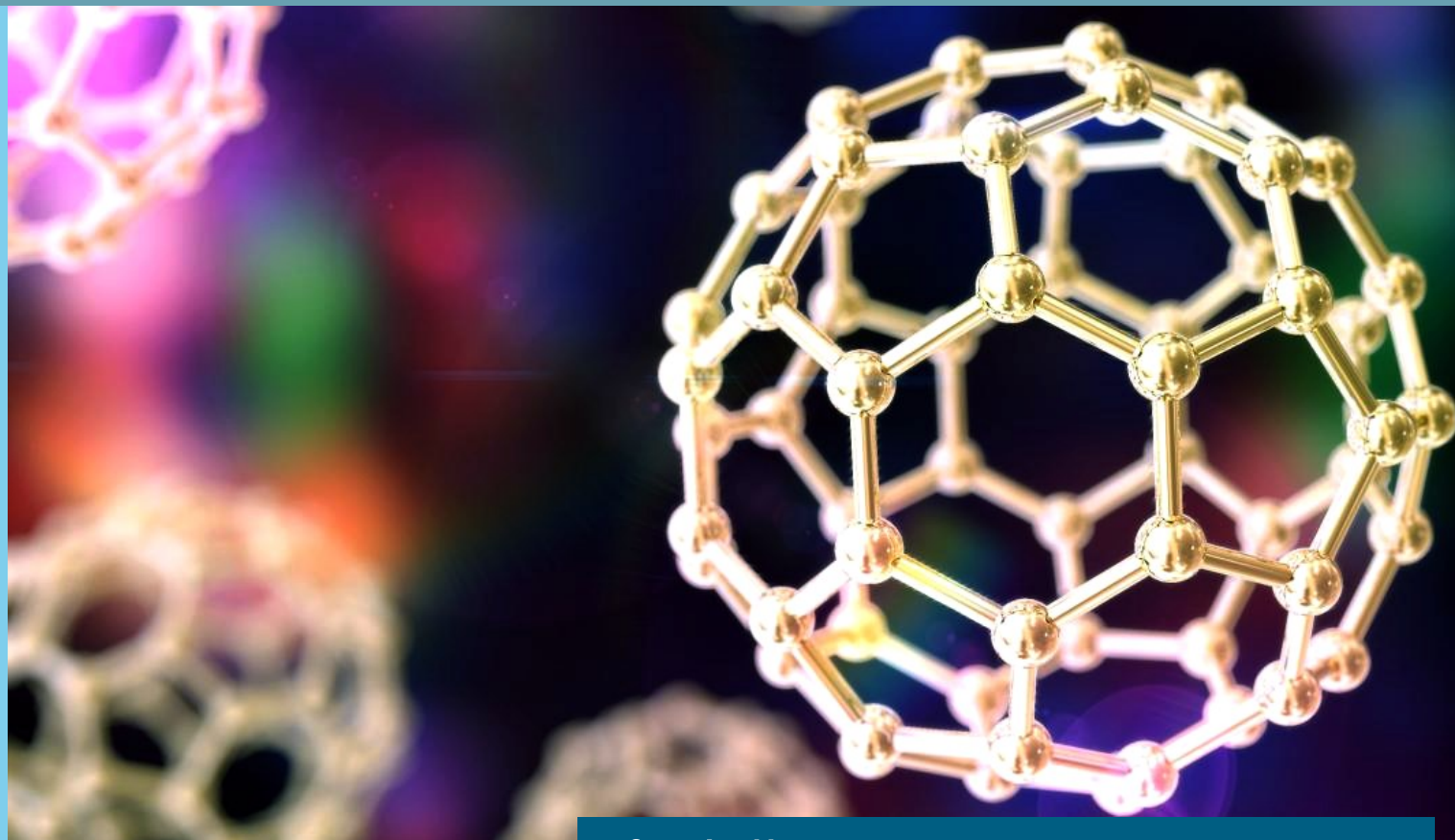


Om Sakthi



# National Seminar on Plant Science and Nanotechnology

## A Perspective on Recent Trends



Organised by

### Adhiparasakthi Agricultural College

Affiliated to Tamil Nadu Agricultural University, Coimbatore  
Accredited by Indian Council of Agricultural Research, New Delhi  
G. B. Nagar, Kalavai, Ranipet District - 632 506

&

### Adhiparasakthi Horticultural College

Affiliated to Tamil Nadu Agricultural University, Coimbatore  
G. B. Nagar, Kalavai, Ranipet District - 632 506

On 17<sup>th</sup>  
August, 2024

Venue : Seminar Hall,  
Adhiparasakthi Agricultural College  
G. B. Nagar, Kalavai, Ranipet District - 632 506

# About Adhiparasakthi Agricultural College & Horticultural College

Adhiparasakthi Agricultural College, the first self-financing College in Tamil Nadu, affiliated to Tamil Nadu Agricultural University, Coimbatore and Accredited by ICAR, New Delhi, was established at G. B. Nagar, Kalavai, Ranipet district in the year 1999. The under graduate programme B. Sc. Agriculture (1999), B. Sc. Horticulture (2004), Diploma in Agriculture (2008) were started and the institute has grown by leaps and bounds with smart classroom facilities for all programmes.

In 2015 Adhiparasakthi Horticultural College was established and offers B.Sc. Hons. (Horticulture) and Diploma in Horticulture from 2017 onwards.

With the Blessings of "Padma Shri Arul Thiru AMMA", the college continues to provide quality education to the students since inception through state-of-the art labs, digital library, a separate language lab, extensive instructional and research farm of about 496 acres and hi-tech demo units are also established to provide hands on training to the students. Modern sports complex for indoor and outdoor games, multipurpose auditorium with Hi-Fi facilities having a capacity of 1500 seats and separate hostel facilities for boys and girls with modern amenities are also available.

## About the Seminar

Abiotic stressors such as drought, extreme temperatures, and salinity pose significant threats to agricultural productivity and ecosystem health. Current issues that pose challenges to crop production in agriculture can be addressed through better understanding of physiological mechanisms and processes underlying crop tolerance and yield formation under stressful environments. Secondary metabolites in plants play a crucial role in mitigating abiotic stress by acting as antioxidants, osmo-protectants, and signaling molecules. Nanotechnology can enhance crop production, tolerance, and reduce environmental pollution by utilizing nano-materials in fertilizers, pesticides, sensors, and biotechnology.

The National Seminar on Plant Science and Nanotechnology (NSPSN 2024) aims to address crop production challenges by sharing research and solutions on managing abiotic stress and applying nanotechnology for sustainable agriculture.

## Keynote Address

### Understanding the Physiological and Molecular Mechanism of Salinity Tolerance in crop Plants for Crop Improvement



Dr. S. Nadaradjan  
Professor, Crop Physiology  
PAJANCOA & RI

### Advances in Nanotechnological Approaches Towards Sustainable Crop Production Systems



Dr. Saravanan Krishnan  
R&D Areoveda  
LifeCell International Pvt Ltd

## Poster Presentation

### Theme 1- Adapting to Change: Innovations in Abiotic Stress Management and Climate Resilience

### Theme 2 - Bioactive Secondary Metabolites - Ecological Roles & Therapeutic Uses

(High Resolution Digital Posters in jpg/png format with Abstract)

Submission of Posters : [nspsnapahc@gmail.com](mailto:nspsnapahc@gmail.com)

Further Details Contact : 7339519317

### Important Dates

Last Date for Registration : 09.08.2024

Last Date for  
Poster Submission : 12.08.2024

Registration Fees: Students - Rs 200/-  
Staff - Rs 300/-

### Payment Details

Account Number : 3123383083  
Bank Name : Central Bank of India  
IFSC Code : CBIN0284148

### Chief Patrons

**Padma Shri Arul Thiru Bangaru Adigalar**  
Founder President, APEI

**Sakthi Thirumathi. V. Lakshmi Bangaru Adigalar**  
President, APEI

### Patrons

**Sakthi Thirumathi. Dr. B. Uma Devi**  
Correspondent, APEI

**Sakthi Thiru. R. Karunanithi**  
Secretary, APEI

### Conveners

**Dr. S. Senthilnathan, Ph.D.**  
Principal  
Adhiparasakthi Agricultural College

**Dr. C. Rettinassababady, Ph.D.**  
Principal  
Adhiparasakthi Horticultural College

### Organising Secretaries

**Mr. P. Arul Kumaran**  
Asst. Professor & Head (Biochemistry)

**Dr. R. Geetha**  
Asst. Professor (Biochemistry)

**Dr. S. Ashok**  
Asst. Professor (Crop Physiology)

**Dr. S. Lakshmi**  
Asst. Professor (Crop Physiology)

### Organising Committee

All the Faculty Members of  
Adhiparasakthi Agricultural & Horticultural College

### Advisory Committee

**Dr. P. Kalaiselvan**  
Professor & Head  
Department of Agronomy

**Mrs. J. Sasirekha**  
Asst Professor (Spices & Plantation)  
Academic Co-ordinator, APHC

**Mr. R. Senthilnathan**  
Asst. Professor (Agronomy)  
Academic Co-ordinator, APAC