

**GCNC  
2024**



**First Circular**



**T  
N  
A  
U**

**Global Conference on  
NANO  
CONNECT**



**Organized by**

**CENTRE FOR AGRICULTURAL NANOTECHNOLOGY**  
Directorate of Natural Resource Management  
Tamil Nadu Agricultural University  
Coimbatore, Tamil Nadu, India

## About TNAU

Tamil Nadu Agricultural University (TNAU) stands as a pioneering institution in the field of agricultural education and research in India. Located in Coimbatore, Tamil Nadu, India, TNAU has played a pivotal role in transforming agricultural practices and contributing to the overall development of the agricultural sector in the Country. Established in 1971, the university is committed to imparting quality education in agriculture and allied sciences. TNAU offers a range of undergraduate, postgraduate, and doctoral programs, fostering knowledge and innovation in areas such as agriculture, horticulture, forestry, environmental science, nanotechnology, agricultural engineering, and more. The university's research endeavours focus on addressing contemporary challenges in agriculture, promoting sustainable farming practices, and enhancing crop productivity. TNAU also actively engages with farmers, providing extension services and disseminating knowledge to the farming community. With its dedication to excellence in education, research, and outreach, Tamil Nadu Agricultural University continues to be a catalyst for advancements in agriculture, contributing significantly to the agro-economic landscape of the region.

## About Coimbatore

Nestled at the foothills of the Western Ghats in the state of Tamil Nadu, Coimbatore is a bustling city that seamlessly blends industrial prowess with natural charm. Known as the "Manchester of South India," the city stands as a testament to its thriving textile and engineering industries, which have earned it a reputation as a major economic hub. Beyond its industrial character, Coimbatore boasts a rich cultural tapestry, with temples, mosques, and churches dotting its landscape, reflecting the city's religious diversity. The educational and healthcare sectors thrive with esteemed institutions and hospitals, contributing to the city's status as an educational and medical centre. Surrounded by scenic landscapes and endowed with a pleasant climate, Coimbatore is not only an industrial powerhouse but also a destination that captivates with its greenery and natural beauty. The city's commitment to smart city initiatives further underscores its progressive approach, making Coimbatore a well-rounded and vibrant metropolis in the heart of South India.

## About Centre for Agricultural Nanotechnology

With an initial investment of Rs. 12 Crores, the Centre for Agricultural Nanotechnology was established in 2009 as part of Tamil Nadu Agricultural University's Centennial celebrations with ICAR special grants. Tamil Nadu Agricultural University is the first State Agricultural University in the Country to create a dedicated facility for nanotechnology based research. In addition to technical assistance, the Nano Centre boasts highly skilled personnel, advanced equipment, and cutting-edge infrastructure. Currently, the Centre for Agricultural Nanotechnology is working on three different theme areas namely Agricultural Nanotechnology, Environmental Nanotechnology, and Nanotoxicity. The Enhanced Freshness Formulation (EFF), Nano stickers and Nano pellets to prolong the shelf life of fruits and vegetables, Surface Modified Nano Zero Valent Iron, Nano biochar, Nano fertilizers, Nano silica, and Carbon dots for environmental applications, Nano fibers for the intelligent delivery of agro inputs, Bio nano polymer to replace synthetic plastics, Super absorbent hydrogel for moisture retention, Nano biopesticides, and other nano products of agricultural importance are among the many projects being worked on by this centre.



## About the Global Conference

Nanotechnology has an impact in inter-disciplinary areas like Agriculture, Horticulture, Forestry, Environmental Science, Engineering, Physics, Chemistry and other related Life Science. This has encouraged many aspiring young minds to take an interest in the field of Nanotechnology and make a career in their domain. Keeping in view, the Centre for Agricultural Nanotechnology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India is organising a Global Conference on Nano Connect 2024. Because of the transversal nature of Nanotechnology, the proposed Global Conference on Nano Connect 2024 is planned to connect Scientists, Scholars, Students and Professionals working across the globe in the field of Nanotechnology and pave way for initiating mutual research collaboration and worthwhile exchange programme. The main goal of GCNC 2024 is to gather Scientists, Scholars, Students and Professionals across the globe to present recent advancement in their relevant field of research and to foster an environment conducive for sharing knowledge and thoughts.

The GCNC 2024 involves five major theme areas: 1. Agricultural Nanotechnology, 2. Nanointerventions in Horticulture, Forestry, Sericulture and Community Science, 3. Environmental Nanotechnology, 4. Nanointerventions in Engineering and Allied Sciences, 5. Nanotoxicology and Biosafety. This global conference would build up an open forum to discuss various aspects of nanotechnology, exchange ideas, collaborations, and establish new networks. The GCNC 2024 will have fabulous keynote speakers from various countries; besides excellent Organizing and Scientific Committee to work in a dynamic manner to get a very exciting agenda covering all the five major theme areas of Nanotechnology. In addition to providing a dynamic environment for student research exchange, GCNC allows students to expand their scientific and social networks. The accepted papers will be presented in oral/poster form to the global forum. It is a three days event which will be held in actual mode at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India during 22 - 24 August, 2024.



## Theme Areas

- 1 **Agricultural Nanotechnology**
- 2 **Nanointerventions in Horticulture, Forestry, Sericulture and Community Science**
- 3 **Environmental Nanotechnology**
- 4 **Nanointerventions in Engineering and Allied Sciences**
- 5 **Nanotoxicology and Biosafety**

### Call for oral presentations and abstract submission

The Conference will cover key note addresses by renowned lead speakers with selected oral and poster presentations. The lead speakers from countries outside India will deliver their research findings through hybrid mode (in person/online) and in-person presentation is mandatory for all other participants. In the event of non availability of travel grants, other country scholars can write a mail to the organizing secretary for online presentation.

Contributing papers in abstract form are invited on the above five themes (Oral and Poster). Abstracts for Oral/Poster presentation should be prepared in MS Word, Book Antiqua, 11 font size, consisting of Title of the paper (ALL CAPS), Authors, Affiliation, Abstract (Restricted to 300 words) and Keywords (Four Numbers) format (Refer Model Abstract). An author can present only one paper. Submit your abstracts to the Mail ID: [gcctnau2024@gmail.com](mailto:gcctnau2024@gmail.com). Best Oral/Poster presentations and prominent achievers will be recognized with awards in each theme.



## Who can participate?

The conference is designed for young researchers from various Universities across the Globe. Students, Scholars, Faculty, Research Fellows, Research Associates, Post Doctoral Fellows, Teaching Assistants, Researchers, Professionals, and Stakeholders can participate.

## How to Reach TNAU, Coimbatore?

TNAU is located 15 km from Coimbatore International Airport; 6 km from Coimbatore Junction Railway station and 5 km from Gandhipuram Bus stand. Taxi (Ola, Red taxi), Auto and bus services (IC) are frequently available from all these places to reach TNAU.

## Accommodation

Will be arranged for the outstation participants on payment mode in one of the facilities of TNAU on Request (First Come First Serve) basis (<https://tnau.ac.in/site/public-relations-office/>) **Email: pro@tnau.ac.in**

## Registration Fee

Category	Early Bird Registration	Late Registration
International delegates	US \$ 100	US \$ 150
Students/Scholars/Research Fellows	₹ 1000	₹ 2000
Faculty	₹ 3000	₹ 5000
Industrial Persons/Stakeholders	₹ 5000	₹ 6000



Scan for Payment

## Payment Details

Account Name : Professor and Head, Centre for Agricultural Nanotechnology

Account Number : 32967417643 IFSC Code : SBIN0002274

Bank Name : State Bank of India MICR Code : 641002005

Branch Name : TNAU, Coimbatore SWIFT Code : SBININBB45 I

### Important Dates

Abstract submission commences on : 15.02.2024  
 Last date for submission of abstract : 15.04.2024  
 Acceptance notification of abstract : 30.04.2024  
 Last date for registration and payment of fee : 15.05.2024  
 All preparatory work closes on : 30.05.2024



### Programme

Day & Date	Fore Noon	Lunch	After Noon
<b>Thursday</b> <b>22.08.2024</b>	Registration, Reporting and Receiving Conference Kit Inaugural function Key Note Address 1	GCNC 2024 Sponsored Lunch	Oral Presentation @ Respective Theme Area hall
<b>Friday</b> <b>23.08.2024</b>	Oral Presentation @ Respective Theme Area hall	GCNC 2024 Sponsored Lunch	Key Note Address 2 Poster Presentation Gala Dinner @ Night 8.00 pm
<b>Saturday</b> <b>24.08.2024</b>	Valedictory function	GCNC 2024 Sponsored Lunch	Post Conference Tour



## Sponsorships and Advertisements

Sponsor	Amount	Benefits
<b>Diamond</b>	> ₹ 2,50,000	Display of sponsor name and logo in the back-drop and proceedings + Two representatives can participate and present papers + Stall space for displaying the products + Chair a session
<b>Platinum</b>	₹ 2,00,000	Display of sponsor name and logo in the back-drop and proceedings + Two representatives can participate and present papers + Stall space for displaying the products + Co-chair a session
<b>Gold</b>	₹ 1,00,000	Display of sponsor name and logo in the back-drop and proceedings + Two representatives can participate and present papers
<b>Silver</b>	₹ 50,000	Display of sponsor name and logo in the back-drop and proceedings + One representative can participate and present paper
	₹ 25,000 to < ₹ 50,000	Display of sponsor name and logo in the back-drop and proceedings





## Conference Team

### Patron

**Dr. V. Geethalakshmi, Ph.D.,** Vice-Chancellor, TNAU

### Co-patron

**Dr. R. Thamizh Vendan, Ph.D.,** Registrar, TNAU

### Convenors

**Dr. M. Raveendran, Ph.D.,** Director (Research), TNAU

**Dr. N. Senthil, Ph.D.,** Dean, School of Post Graduate Studies, TNAU

### Chair

**Dr. P. Balasubramaniam, Ph.D.,** Director (Natural Resource Management), TNAU

### Organizing Secretary

**Dr. M. Prasanthrajan, Ph.D.,** Head, Centre for Agricultural Nanotechnology, TNAU

### Co-organizing Secretaries

**Dr. S. K. Rajkishore, Ph.D.,** Assistant Professor (Env. Science)

**Dr. C. Sharmila Rahale, Ph.D.,** Assistant Professor (Soil Science)

**Dr. V. Gomathi, Ph.D.,** Professor (Agrl. Microbiology)

**Dr. D. Jeya Sundara Sharmila, Ph.D.,** Assistant Professor (Physics)



## Technical Committee: Conference Theme

### Theme 1

#### Agricultural Nanotechnology

**Dr. M.K. Kalarani, Ph.D.**, Director (DCM)  
**Dr. U. Sivakumar, Ph.D.**, Professor and Head (Agrl. Microbiology)  
**Dr. R. Santhi, Ph.D.**, Professor and Head (Soil Science)  
**Dr.A. Senthil, Ph.D.**, Professor and Head (Crop Physiology)

### Theme 2

#### Nanointerventions in Horticulture

**Dr. P. Irene Vethamoni, Ph.D.**, Dean, HC&RI, Coimbatore  
**Dr. C. Indu Rani, Ph.D.**, Professor and Head (Vegetable Science)  
**Dr. K. S. Vijai Selvaraj, Ph.D.**, Associate Professor (Horticulture)  
**Dr. H. Usha Nandhini Devi, Ph.D.**, Assoc. Professor (Horticulture)

#### Nanointerventions in Forestry and Sericulture

**Dr.A. Balasubramanian, Ph.D.**, Dean, FC&RI, Mettupalayam  
**Dr. K.T. Parthiban, Ph.D.**, Former Dean, FC&RI, Mettupalayam  
**Dr. S. Manimegalai, Ph.D.**, Professor and Head (Sericulture)  
**Dr. S. Umesh Kanna, Ph.D.**, Professor (Forestry)

#### Nanointerventions in Community Science

**Dr. S. Kanchana, Ph.D.**, Dean, CSC&RI, Madurai  
**Dr. G. Gurumeenakshi, Ph.D.**, Professor & Head (Food Science & Nutrition)  
**Dr. M. Ilamaran, Ph.D.**, Associate Professor (Food Science & Nutrition)  
**Dr. N. Sritharan, Ph.D.**, Associate Professor (Crop Physiology)

### Theme 3

#### Environmental Nanotechnology

**Dr. P.P. Mahendran, Ph.D.**, Dean, AC&RI, Madurai.  
**Dr. M. Prasanthrajan, Ph.D.**, Professor and Head (Nanotechnology)  
**Dr. P. Dhevagi, Ph.D.**, Professor and Head (Env. Science)  
**Dr. R. M. Jayabalakrishnan, Ph.D.**, Associate Professor (Env. Science)

### Theme 4

#### Nanointerventions in Engineering and Allied Sciences

**Dr. A. Raviraj, Ph.D.**, Dean, AEC&RI, Coimbatore  
**Dr. D. Ramesh, Ph.D.**, Professor and Head (Renewable Energy)  
**Dr. G. Vanitha, Ph.D.**, Assistant Professor (Computer Science)  
**Dr. M. Thirunavukkarasu, Ph.D.**, Assistant Professor (Veterinary Science)

### Theme 5

#### Nanotoxicology and Biosafety

**Dr. S. Pazhanivelan, Ph.D.**, Director (CWGS)  
**Dr. S. K. Rajkishore, Ph.D.**, Assistant Professor (Env. Science)  
**Dr. K.G. Sabarinathan, Ph.D.**, Assoc. Professor (Agrl. Microbiology)  
**Dr. K. Boomiraj, Ph.D.**, Associate Professor (Env. Science)



## International Advisory Panel

- ◆ **Dr. David Cwiertny, Ph.D.**  
Professor, Civil and Environmental Engineering  
Director, Center for Health Effects of Environmental Contamination, 4655, Iowa City, IA 52242, United States.
- ◆ **Dr. Sylvester Obaïke Adejo, Ph.D.**  
Dy. Director of Research and Collaboration,  
Centre for Food Technology and Research, Benue State University,  
Makurdi, Nigeria.
- ◆ **Dr. Nir Sade, Ph.D.**  
Assistant Professor, Institute for Cereal Crops Improvement,  
Tel Aviv University, Tel Aviv, Israel.
- ◆ **Dr. David G. Churchill, Ph.D.**  
Professor, Department of Chemistry (Molecular Logic Gate Laboratory), Korea Advanced Institute of Science and Technology, Republic of Korea.
- ◆ **Dr. Ahmed H. El-Naggar, Ph.D.**  
Soil Management Scientist, International Center for Biosaline Agriculture (ICBA), Dubai, UAE.
- ◆ **Dr. Manickavasagan Annamalai, Ph.D.**  
Professor, School of Engineering,  
University of Guelph, Canada.
- ◆ **Dr. Seeram Ramakrishna, Ph.D.**  
Professor and Everest Chair, National University of Singapore, Singapore.
- ◆ **Dr. Vishnu D. Rajput, Ph.D.**  
Associate Professor, Southern Federal University,  
Rostov-on-Don, Russia.
- ◆ **Dr. Tanujjal Bora, Ph.D.**  
Director, Center of Excellence in Nanotechnology  
School of Engineering and Technology  
Asian Institute of Technology, Pathumthani – 12120, Thailand.
- ◆ **Dr. Eunice Bamishaiye, Ph.D.**  
Assistant Director Research,  
Nigerian Stored Products Research Institute,  
Ilorin Kwara State, Nigeria.
- ◆ **Dr. Loc T Nguyen, Ph.D.**  
Associate Professor (Food Engineering and Bioprocess Technology)  
School of Environment, Resources and Development (SERD)  
Asian Institute of Technology, Bangkok, Thailand.
- ◆ **Dr. Saji George, Ph.D.**  
Associate Professor, Canada Research Chair in Sustainable Nanotechnology for Food and Agriculture, Department of Food Science and Agricultural Chemistry, McGill University, Canada.
- ◆ **Dr. Jayasankar Subramanian, Ph.D.**  
Professor, Tree Fruit Breeding and Biotechnology  
University of Guelph, Canada.
- ◆ **Dr. Deepak Kumaresan, Ph.D.**  
Lecturer, School of Biological Sciences, Institute for Global Food Security, Biological Sciences Building, United Kingdom.
- ◆ **Dr. Muthukumar Bagavathiannan, Ph.D.**  
Billie Turner Professor of Agronomy, Department of Soil and Crop Sciences, Texas A&M University, United States
- ◆ **Elijah Kwaghgba Gbabe**  
Research Officer, Nigerian Stored Products Research Institute,  
Ilorin Kwara State, Nigeria.

## Technical Committee : General

**Dr. N. Venkatesa Palanichamy, Ph.D.**, Dean, AC&RI, Coimbatore  
**Dr. N. Maragatham, Ph.D.**, Dean (CSW), TNAU  
**Dr. C. Vanniarajan, Ph.D.**, Dean, ADAC&RI, Trichy  
**Dr. M. Theradimani, Ph.D.**, Dean, VOCAC&RI, Killikulam  
**Dr. N. Muthukrishnan, Ph.D.**, Dean, AC&RI, Thirivannamalai  
**Dr. A. Velayutham, Ph.D.**, Dean, MSSAC&RI, Tanjore  
**Dr. S. Nakkeeran, Ph.D.**, Dean, AC&RI, Pudhukkottai  
**Dr. J. Rajangam, Ph.D.**, Dean, HC&RI, Periyakulam  
**Dr. P. Paramaguru, Ph.D.**, Dean, HC&RI(W), Trichy  
**Dr. P. Rajkumar, Ph.D.**, Dean, AEC&RI, Kumulur  
**Dr. P. Balasubramani, Ph.D.**, COE, TNAU  
**Dr. R. Ravikesavan, Ph.D.**, Director (CPBG), TNAU  
**Dr. R. Umarani, Ph.D.**, Director (Seed Centre), TNAU  
**Dr. M. Shanthi, Ph.D.**, Director (CPPS), TNAU  
**Dr. P. Jeyakumar, Ph.D.**, Director (P&M), TNAU  
**Dr. E. Somasundaram, Ph.D.**, Director (ABD), TNAU  
**Dr. D. Suresh Kumar, Ph.D.**, Director (CARDS), TNAU  
**Dr. P.P. Murugan, Ph.D.**, Director (Extension Education), TNAU  
**Dr. P. Balasubramaniam, Ph.D.**, Director (ODL), TNAU  
**Dr. K. Subramaniam, Ph.D.**, Director (TRRI), TNAU  
**Dr. G. Balasubramanian, Ph.D.**, Nodal Officer, AC&RI, Karur  
**Dr. G. Ravi, Ph.D.**, Nodal Officer, AC&RI, Keelvezhur  
**Dr. M.S. Aneesarani, Ph.D.**, Nodal Officer, HC&RI, Paiyur  
**Dr. R. Babu, Ph.D.**, Nodal Officer, AC&RI, Chettinad

## National Advisory Panel

**Dr. Suresh Kumar Chaudhari, Ph.D.**, DDG (NRM), New Delhi  
**Dr. Ch. Srinivasa Rao, Ph.D.**, Director, ICAR-NAARM, Hyderabad  
**Dr. A. Lakshmanan, Ph.D.**, Former Dean (SPGS), TNAU & MD (Nanoventions)  
**Dr. K.S. Subramanian, Ph.D.**, Former Director (Research), TNAU  
**Dr. C. Udayasoorian, Ph.D.**, Former Dean (SPGS), TNAU  
**Dr. A. Arunachalam, Ph.D.**, Director, ICAR-CAFRI, Jhansi  
**Dr. S. P. Datta, Ph.D.**, Director, ICAR-IISS, Bhopal  
**Dr. J.C. Tarafdar, Ph.D.**, Former ICAR-Emeritus Scientist, CAZARI, Jodhpur  
**Dr. C. Sankaranarayanan, Ph.D.**, Principal Scientist, ICAR-SBI, Coimbatore  
**Dr. Manoj Shrivastava, Ph.D.**, Principal Scientist, ICAR- IARI, New Delhi  
**Dr. U. Surendran, Ph.D.**, Principal Scientist and Head, CWRDM, Kerala  
**Dr. Tapan Adhigari, Ph.D.**, Principal Scientist, ICAR-IISS, Bhopal  
**Dr. N. Vigneshwaran, Ph.D.**, Principal Scientist, ICAR-CIRCT, Mumbai  
**Dr. P.S. Vijayakumar, Ph.D.**, Scientist E, Inst. of Nano Science and Tech. Mohali  
**Dr. C.R. Chinnamuthu, Ph.D.**, ICAR-Emeritus Scientist, TNAU  
**Dr. S. Natarajan, Ph.D.**, Professor (Retd.), TNAU  
**Dr. S.D. Sivakumar, Ph.D.**, TPO to the Vice Chancellor, TNAU  
**Dr. S.S. Sivakumar, Ph.D.**, Deputy Registrar (Admin.)  
**Dr. M. Rajavel, Ph.D.**, Associate Professor (Crop Physiology) & PRO  
**Dr. S. Radhakrishnan, Ph.D.**, Professor and Head (Silviculture)  
**Dr. K. Ganesan, Ph.D.**, Associate Professor (Agrl. Entomology), SPGS  
**Dr. S. Thirumalairajan, Ph.D.**, DBT RREF (Nano Science and Technology)

## Contact

**Dr. M. PRASANTHRAJAN, Ph.D.**

Professor and Head, Centre for Agricultural Nanotechnology,  
Directorate of Natural Resource Management,  
Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India

☎ 0422 6611520 📞 +9198422 63878 ✉ gcncnau2024@gmail.com