



CENTRAL UNIVERSITY OF TAMIL NADU, THIRUVARUR

CSIR Sponsored Workshop on

Harnessing Ionomics for Sustainable Agriculture & Food Security

9th to 13th February 2026

About the Workshop

Ionomics is one of the youngest wings of the omics platform involving the high-throughput study of elemental composition in biological systems to understand nutrient dynamics, stress responses and their genetic & environmental regulation. Ionomics is applied in agriculture, crop nutrition, stress biology, environmental science, food quality and human health research. Exploring these possibilities the workshop will bring together experts and young researchers to understand the diverse applications of ionomics in agriculture, food and nutrition and sustainability. Key themes include how ionomics can act as a functional omics linking elemental profile with metabolic process and gene actions including the environmental influences in an organism. The role of ionomics in crop improvement will be highlighted towards its potential in identifying novel traits and emphasizing how plants adapt their ionome under abiotic influence such as drought, metal toxicity and climate- induced stresses. Hands on emphasis on cutting-edge analytical platform, Inductively Coupled Plasma Mass Spectrometry (ICP-MS), high-throughput elemental profiling tools and data analysis will be the highlight of the workshop. The session on advanced multi-omics integration and data-driven approaches will pave the way for better research vision and innovation.

About the Central University of Tamil Nadu

The Central University of Tamil Nadu (CUTN) was established in 2009 at Thiruvavarur, Tamil Nadu through an Act of Parliament. It is a higher education institute (HEI) committed to inclusive and high quality academics and research, fostering innovation, interdisciplinary learning, with holistic educational experience.

The University is situated in the lush green Cauvery delta region, spread over 516 acres along the banks of the river Vettaru. The serene and eco-friendly environment provides an ideal setting for learning and research. Currently CUTN with 28 departments under 13 schools offers 64 academic programmes, including 29 research programmes, 25 postgraduate programmes, 6 undergraduate (Honors/Research) programmes, 1 integrated programme, and 3 postgraduate diploma courses. As a pioneer institute in implementing the new education policy (NEP), CUTN is in the process of introducing 19 new undergraduate programmes (Honors/Research) from the coming academic session.

About Thiruvavarur

Thiruvavarur is a historic temple city in Tamil Nadu, renowned as the birthplace of Carnatic music. The city is especially famous for Asia's largest temple chariot, a massive wooden marvel standing about 96 feet tall and weighing nearly 300 tonnes, symbolizing centuries of devotion, craftsmanship and spiritual heritage.



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Who can apply?

- Students (Ph.D.)/Research scholars/Early, Mid-Career Scientists/ Academicians from educational/research institutes.

Registration Details

- Registration opens on 19/12/2025 and closes on 12/01/2026
- No on the spot registration

Interested candidates may fill the form through the below mentioned link.

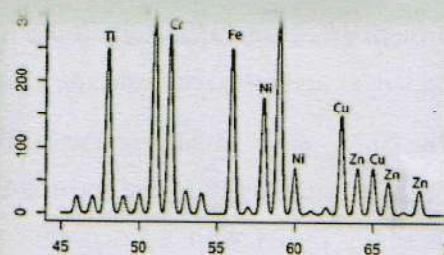
- Registration link: <https://forms.gle/dXTPf8eg2jJKcwjQ7>

Fees details

- Students (Ph.D.) / Research Scholars: Rs. 3000 + 18% GST
- Scientists / Academic Faculty: Rs. 7000 + 18% GST

Selection and Accommodation details

- Selection of participants for the workshop will be made on a "First-come, First-serve basis".
- Accommodation will be arranged on payment basis.
- Confirmation of selection, payment gateway details and accommodation request link will be communicated via e-mail.
- Payment should be made within 2 days from the confirmation mail.



Venue

Department of Horticulture
Kailash Satyarthi Block
CUTN, Thiruvarur

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Organizing Secretary

Prof. S. Manivannan
Dean, School of Life Sciences
CUTN, Thiruvarur

Co-Organizing Secretary

Dr. S. Senthilkumar
Assistant Professor
CUTN, Thiruvarur

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