



Tamil Nadu Agricultural University
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To
The Editor,
Sir,

Date: 11.03.2026

I request that the following message may kindly be published in your esteemed daily:

**TNAU organized Hands on training in
“Genome to Phenome in crop improvement”**

The Tamil Nadu Agricultural University, Coimbatore organized a two days training programme on “Genome to Phenome in crop improvement” from 11.03.26 to 12.03.26 at CPMB&B, TNAU, Coimbatore. The students of Tamil Nadu Agricultural University and Kerela Agricultural University participated in this training programme.

Dr. E. Kokila Devi, Professor and Head, Department of Plant Biotechnology, CPMB&B welcomed the dignatories and participants of the training. She mentioned about the importance of integrating phenomics and genomics for developing climate resilient crops.

Dr. N. Senthil, Director of CPMB&B gave insights about the workshop and highlighted the significance of improvement in genomics technologies, utilization of phenomics/Drone platform for crop improvement programme. The training programme was conducted under DBT Builder programme, which is meant for interdisciplinary research and establishment of infrastructure facilities for carrying out advanced research programmes. He also mentioned training man power is an important criteria for future research and phenotyping of research trials can be carried out using phenomics/Drone platform. The precise voluminous data generated by the phenomics studies can be analysed using several AI tools. Further genomic selection of research materials can be applied for selecting suitable crosses and it can be intergrated with genome informations generated by advanced next generation sequencing technologies. The future researchers should be equipped with multiple skills for carrying out multidisciplinary research, he added.

Dr.R.Umarani, Director, Seed Centre in her inaugural address mentioned about the importance of advanced phenotyping platforms in seed certification and the key points to be followed for production of genetically pure seed materials.

Dr. L. Arul, Professor and Head, Department of Plant Molecular Biology and Biotechnology, CPMB&B proposed a vote of thanks. It is followed by the technical sessions in which the resource persons will explain about the concepts of Genomics assisted breeding for developing multiple stress tolerant crops, developing non-lodging versions of popular varieties through Marker assisted breeding, screening methodologies using phenomics platform, De novo assembly of crop genomes and SNP genotyping platforms for crop improvement programmes.

Public Relations Officer