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To

Date: 18.05.2026

The Editor,  
Sir,

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

**TNAU enhance the young researchers through Advanced Metabolomics and Proteomics Training**

The Centre of Excellence in Biotechnology (COXBIT), established under Tamil Nadu Agricultural University (TNAU) organized a five-day Hands-on Training Programme on "Metabolomics and Proteomics using Advanced Analytical Platforms" from 18 to 22 May 2026 at the Seminar Hall, CPMB&B, TNAU. The participants included undergraduate, post graduate students, scientists from Tamil Nadu Veterinary and Animal Sciences University, Indian Council of Agricultural Research and researchers from various institutes across India.

The inaugural session commenced with the Welcome Address by Dr. E. Kokiladevi, Professor and Head (DPB). The programme was formally inaugurated by Dr. N. Senthil, Director, COXBIT & CPMB&B, who highlighted the growing significance of metabolomics and proteomics in modern biological research and their wide-ranging applications in agriculture, healthcare, environmental studies, drug discovery, systems biology, and biomarker identification. He also emphasized the role of advanced omics technologies in addressing emerging scientific and societal challenges through innovative research and data-driven approaches.

In his presidential address, Dr. G. Balasubramanian, Dean (CSW) highlighted the importance of advanced analytical platforms and interdisciplinary research in biotechnology. He emphasized the vital role of metabolites in various biological processes and explained the applications of metabolomics and proteomics in biomarker identification, metabolic fingerprinting and drug-metabolite interaction studies in healthcare and life sciences research. Dr. S. Vellaikumar, Associate Professor, DPB proposed the vote of thanks.

The training programme includes intensive theoretical and hands-on training on various analytical and computational platforms used in metabolomics and proteomics studies. The technical sessions include sample preparation methods, plant metabolite analysis, chromatographic separation techniques, calibration procedures, concepts of linearity, limit of detection (LOD), limit of quantification (LOQ), analytical accuracy, precision, and advanced instrumentation workflows enabling participants to gain direct operational exposure to advanced analytical instruments and data acquisition procedures. The programme also covers advanced computational biology components such as metabolomic data analysis, metabolic profiling using bioinformatics tools, molecular modelling and docking, proteomic data interpretation, and top-down and bottom-up proteomics approaches. Participants are being trained in data processing workflows and analytical interpretation strategies relevant to omics-based research and translational biotechnology applications.

**Public Relations Officer**