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To
The Editor,
Sir,

Date: 25.01.2023

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

**TNAU conducts Hands on training on High throughput analysis of Protein:
“MALDI TOF”**

TNAU, Centre of Excellence in Biotechnology organised ‘**The Hands on Training in High throughput analysis of PROTEIN: “MALDI TOF”**’ on **January 23rd & 24th, 2023** at CPMB&B, TNAU, Coimbatore. The participants (38 members) from various colleges and research institutes attended the training programme.

In the inaugural function, Dr.N.Senthil, Director (CPMB&B) welcomed the gathering and explained about importance of advanced tools for proteomic analysis and the facility can be availed by the researchers and students from TNAU and other institutes.

Dr.M. Raveendran, Director of Research, TNAU in his presidential address explained about the importance of genomics and next generation sequencing technologies in crop improvement. The proteomics and metabolomics are used at the level of cellular localisation of particular metabolite or protein. The funding by the Government of India to higher educational institutes and research centres created the opportunity for students to utilise the facility at ease. It also created avenues and opportunities for exploring bioresources, he added.

Dr.K.Dharmalingam, Director-Research, Aravind medical Research Foundation, Madurai in his inaugural address highlighted the advancement of technologies and development of various methodologies to develop useful products by the companies. He also emphasized on the skill development by the faculties and students.

Finally Dr. S. Mohan Kumar, Professor and Project Director (CoEB) proposed the vote of thanks. He explained about the importance of proteomics and the development of metabolomic and proteomic facility in TNAU.

In continuation the guest lecture by Dr.K.Dharmalingam has given elaborate information about the basics of Mass spectrometry and advanced tools for proteomic analysis including MALDI TOFF. The protocol for sample preparation was well explained and demonstrated to the trainees. The basics of software and hardware of MALDI TOFF was explained by Mr. Venkatesh, Spinco Biotech and the loading of trypsin digested samples into MALDI TOFF instrument was shown to the participants. The sample analysis and interpretation of results were explained and demonstrated in detail to the participants. The hands on session regarding online tools for proteomic analysis was conducted by Dr.N. Bharathi and Dr. N. Saranya, Department of Plant Molecular Biology and Bioinformatics.

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