

University of Hyderabad

Research Positions in Tomato Functional Genomics and Metabolomics

At University of Hyderabad, we are having a vibrant group on Tomato Functional Genomics, which is working on TILLING (Targeting Induced Local Lesions IN Genomes), Insertional Mutagenesis, proteomics and fruit ripening in tomato. Some of the current aims of the group include using reverse genetics to isolate tomato mutants delayed in ripening, having high lycopene and folate content in tomato fruits and analysis of light and hormonal signal transduction pathways. For recent publications of the group see (*Plant Physiol.*, **156**, 1424–1438; *Molecular Plant*, **3**, 854–869; *Plant Methods*, **6**, 3; *Plant Methods*, **5**, 18; *Plant Signaling and Behavior*, **5**, 11).

Currently we have research associate positions available under 'Tomato Metabolome Network' (ToMaNet) funded by Dept of Biotechnology under following projects entitled '**Biofortification of Tomato by Targeted Manipulation of the Biosynthetic Pathways**' under supervision of Prof. R. P. Sharma, and '**Interaction between Proteome and Metabolome Networks during Tomato Fruit Ripening**' under supervision of Dr Y. Sreelakshmi at Dept of Plant Sciences, School of Life Sciences, University of Hyderabad. The research associate would be offered fellowships of Rs 24,000 p.m. + HRA. The qualifications for the Research Associate positions are as follows:

Research Associate I: Applicants should have experience in plant functional genomics, RNAi/VIGS, Next Gen Sequencing preferably in tomato or other crop plants and should be supported by publications. Ph.D. in molecular biology is required.

Research Associate II: Applicants should have experience in identifying natural plant products using NMR and/or Mass spectrometry and should be supported by publications. Ph.D. in Chemistry of Natural Products is required.

Research Associate III: Applicants should have experience in bioinformatics for handling genome sequencing/proteome/metabolite analyses and should be supported by publications. Ph.D. in Bioinformatics is required.

Research Associate IV: Applicants should have experience in proteomics-2D/DIGE/LC-MS and also in characterizing PTMs and should be supported by publications. Ph.D. in biochemistry/protein chemistry is required.

Candidates interested in above positions should send their CV, a statement clearly explaining how their skills are relevant to the position and the name/contact information for three references. The candidates can send their application by e-mail at rameshwar.sharma@gmail.com and/or syellamaraju@gmail.com on or **before 1 March 2012**. No TA/DA would be provided for attending the interview. We also have few openings for CSIR/UGC/DBT JRF candidates for pursuing Ph.D. in above research areas. The interested candidates can send CV to above e-mail addresses.