Training Programme on
Phenotyping and Molecular Breeding for Improving Drought Adaptive Traits in Crops
13–22 February 2012
Department of Crop Physiology, University of Agricultural Sciences, Bangalore 560 065

Scope of training course on drought
Drought is the most complex abiotic stress and the task of addressing crop improvement (adaptation) under water limited conditions is a formidable one and will requires a concerted approach. It involves meteorological analysis to water balance models and understanding physiological and molecular responses of plants to moisture stress.

Therefore, there is need for a comprehensive approach towards addressing the issue of crop improvement for drought tolerance. Phenotyping for drought adaptive traits by screening the genotypes/accession and QTL discovery has been the current priority.

It is clearly evident that discovery of appropriate genomic regions that govern the variability in a trait entirely depends on the ability to accurately assess the genetic variability in the trait, molecular characterization of the population with appropriate molecular markers and the use of the correct statistical algorithms to associate markers and trait. These activities would pave way for the evolution of a robust markers assisted breeding to meet the envisaged goals.

The training course is designed to provide state-of-the-art theoretical basis of molecular breeding with special emphasis on phenotyping. The main focus of the training programme is to provide hands on training on the aspects of phenotyping and molecular breeding for drought tolerance.

Eligibility and selection
The training programme is being organized by the Department of Crop Physiology, UAS, Bangalore with financial assistance from the Niche Area of Excellence project of the ICAR. The training course is designed for faculty and scientists/researchers/postdoctoral/students and will be for the duration of ten days from 13 to 22 February 2012.

Eligible faculty/scientists/postdoctoral fellows/Ph.D. students, who wish to participate in the training programme, may submit their brief curriculum vitae including name, date of birth, sex, educational qualifications, experience, position held, postal, e-mail address and phone number and a brief write-up on motivation to attend the training programme. Application sent through proper channel duly approved by the institution will be considered (attach the letter of approval with the application). Preference will be given to individuals below 45 years of age.

Accommodation
Accommodation will be arranged for the participants on sharing basis for the period of training. No TA/DA will be provided to the participants attending the training programme.

Contact address:
Course Directors: Dr M. Udayakumar/Dr T. G. Prasad
Course Coordinators: M. S. Sheshshayee/B. Mohan Raju/Nataraja N. Karaba
Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bangalore 560 065
Telefax: 080-2363 6713/080-2333 0153
e-mail: udayakumar_m@yahoo.com or tgprasad77@yahoo.com