Plant Cell and culture technology might serve as a complement to standard plant breeding techniques for the development of elite plantlets in vitro, a significant agricultural propagation technology. During the last decade, tissue culture technology has made considerable strides in the growth of plants with novel characteristics. To address the ever-increasing commercial demands, the *in vitro* multiplication of a large number of clonal plants with enhanced characteristics has gained importance. In recent years, there have been several reports of refinery plants from tissue explants, cultured cells, and protoplasts of numerous species. Among them, Mentha arvensis L. is the most useful to humankind for diverse reasons. M. arvensis in vitro investigations and genetic transformation. To assess the in vitro morphogenetic response of shoot tip and nodal segments to varying concentrations of auxin and cytokinins. To investigate the method and procedure for isolating protoplasts from mesophyll cells in M.arvensis To create root induction techniques from in vitro-regenerated shoots.

Dr. M. Venkateshwarlu obtained his Ph.D. from Kakatiya University at the age of 30 and soon began teaching Postgraduate students at University College. He has written and co-written 132 research articles and 12 books. He attended 74 national seminars, 23 international seminars, four symposia and workshops.

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Tissue Culture and Genetic Transformation Studies in *Mentha arvensis. L* a Medicinally Important Plant

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