Influence of gamma irradiation on morphogenetic response in shoot tip cultures of *Cucumis melo.* l. cv. bathasa

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The application of physical mutagens in tissue culture has been reported by several authors (Botino, 1975 and Skirvin 1978). There have been numerous investigations on the effect of ionizing radiation on callus tissue. The effect of ionizing radiation on callus tissue has been reported in different plant material (Rao and Narayanaswamy, 1975 and Werry and Stoffelsen, 1981). The evidence of low dose radiation treatment in callus cultures have been reported (Degani and Pickholz 1973; and Sharma et al., 1983). Effect of gamma radiation on growth and differentiation of another callus in *Datura* was reported (Jain et al., 1984). Stimulatory effects of low doses of ionizing radiations, not only on growth but also on differentiation in cultured plant cells was demonstrated by several workers (Sharma et al., 1983). Kochbha and Spiegel-Roy (1978) demonstrated that by irradiation and addition of certain growth regulators like IAA to the medium the response of *Citrus sinensis* tissue culture was enhanced.

**Biography**

T. Thirunahari. Ugandhar has completed his Ph.D at the age of 28 years from Kakatiya University under the guideness of Prof N.Ramaswamy Head Department of Biotechnology Kakatiya University Warangal immediately he was started his committed teaching career as a Assistant Professor in Botany at C.V. Raman P.G. College Mancherial in 2005 and he was appointed as Assistant Professor in Botany on 2012 Feb 4th by APPSC at S.R.R Govt Degree and P.G. College Karimnagar. He has published 30 research articles, co-authored 3 books and guided 10 M.Phil theses. He has attended 20 national seminars and 4 international seminars and also attends 4 symposia and workshops. His major fields of teaching and research include Cytology and Cytogenetics, Genetics and Plant Breeding, Molecular Genetics, Mutation Breeding, Plant Tissue Culture and Biotechnology. He successfully applied mutation breeding to brinjals, chillies and tomatoes and developed several agronomically useful varieties. He established clonal multiplication of certain forest trees. He has a patent pending for *In Vitro* Propagation of Tassar Silk Plant.

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