

IMPROVEMENT IN CARNATION SHOOT MULTIPLICATION USING THIDIAZURON *IN VITRO*

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REFERENCES

- Ahmad N., Anis M. (2005). *In vitro* mass propagation of *Cucumis sativus* L. form nodal segments. Turkish Journal of Botany, 29: 237-240.
- Anis M., Husain M. K., Shahzad A. (2005). *In vitro* plantlet regeneration of *Pterocarpus marsupium* Roxb., an endangered leguminous tree. Current Science, 88: 861-863.
- Anis M., Shahzad A. (2005). Micropropagation of *Sanseveria cylindrica* Bojer ex. Hook through leaf disc culture. Propagation of Ornamental Plants, 5: 1-5.
- Anonymous (2003). The wealth of India: Raw Materials, Vol III (D-E). CSIR, New Delhi: 52-53.
- Casanova E., Valdes A. E., Fernandez B., Moysset L., Trillas M. I. (2004). Levels and immunolocalization of endogeneous cytokinins in thidiazuron-induced shoot organogenesis in carnation. Journal of Plant Physiology, 161: 95-104.
- Faisal M., Ahmad N., Anis M. (2005a). Shoot multiplication of *Rauvolfia tetraphylla* L. using thidiazuron. Plant Cell, Tissue and Organ Culture, 80: 187-190.
- Faisal M., Ahmad N., Anis M. (2005b). *In vitro* regeneration and mass propagation of *Ruta graveolens* L. - a multipurpose shrub. HortScience, 40: 1487-1480.
- Frey L., Janik J. (1991). Organogenesis in carnation. Journal of American Society of Horticultural Science, 116: 1108-1112.
- Kantia A., Kothari S. L. (2002). High frequency shoot bud formation and plant regeneration from leaf explants of *Dianthus chinensis* L. Scientia Horticulturae, 96: 205-212.
- Malabari R. B., Mulgund G. S., Natraja K. (2003). Efficient regeneration of *Vanda coerulea*, an endangered orchid using thidiazuron. Plant Cell, Tissue and Organ Culture, 76: 289-293.
- Miller R. M., Kaul V., Hitchinson J. F., Maheshwaran G., Rechar D. (1991). Shoot regeneration from fragmented flower bud of carnation (*Dianthus caryophyllus*). Annals of Botany, 68: 563-568.
- Mithila J., Hall J. C., Victor J. M. R., Saxena P. K. (2003). Thidiazuron induces shoot organogenesis at low concentrations and somatic embryogenesis at high concentrations on leaf and petiole explants of African violet (*Santpaulia ionantha* Wendl.). Plant Cell Reports, 21: 408-414.
- Murashige T., Skoog F. (1962). A revised medium for rapid growth and bioassay with tobacco tissue culture. Physiologia Plantarum, 15: 473-497.
- Pareek A., Kantia A., Kothari S. L. (2004). *In vitro* cloning of ornamental species of *Dianthus*. Indian Journal of Biotechnology, 3: 363-366.
- Varshney A., Dhawan V. (1998). Micropropagation of Ornamental Plants. In: Srivastava P. S. (Ed.). Plant Tissue Culture and Molecular Biology: Application and Prospects Narosa Publication, New Delhi (India): 402-528.
- Ziv M., Altman A. (2003). Tissue Culture, General Principles. In: Thomas B., Murphy D. J., Rurray B. G. (Eds.). Encyclopedia of Applied Plant Sciences. Elsevier Academic press (V.K.) Vol. 3: 1342-1353.