

**OPTIMIZATION OF FACTORS AFFECTING ORGANOGENESIS AND
SOMATIC EMBRYOGENESIS OF *ANTHURIUM ANDREANUM* LIND. 'TERA'**

Ebrahim Beyramizade¹, Pejman Azadi^{1,2}, and Masahiro Mii^{2*}

¹Department of Biotechnology, National Research Center of Ornamental Plants, Mahallat, Iran.

²Laboratory of Plant Cell Technology, Graduate School of Horticulture, Chiba University,
648 Matsudo, Matsudo City, Chiba 271-8510, Japan, *Fax: + 81 47 308 8720

*E-mail: miim@faculty.chiba-u.jp

REFERENCES

- Croat T. B. (1986). The distribution of *Anthurium* (Araceae) in Mexico, Middle America and Panama. *Selbyana*, 9: 94-99.
- Dufor L., Guerin V. (2003). Growth developmental features and flower production of *Anthurium andreanum* Lind. in tropical condition. *Scientia Horticulturae*, 98: 25-35.
- Finnie J. F., van Staden J. (1986). *In vitro* culture of *Anthurium andreanum*. *South African Journal of Botany*, 52: 343-346.
- Geier T. (1982). Morphogenesis and plant regeneration from spadix fragments of *Anthurium scherzerianum* cultivated *in vitro*. In: Fujiwara A. (Eds.). *Plant Tissue Culture 1982*. Maruzen, Tokyo: 137-138.
- Geier T. (1990). *Anthurium*. In: Ammirato P.V., Evahns D. A., Sharp W. R., Bajaj Y. P. S. (Eds.). *Handbook of Plant Cell and Tissue Culture*, Vol. 5, Ornamental species. McGraw-Hill, New York: 228-252.
- Hamidah M., Karim A. G. A., Debergh P. C. (1997). Somatic embryogenesis and plant regeneration in *Anthurium scherzerianum*. *Plant Cell, Tissue and Organ Culture*, 48: 189-193.
- Kuehnle A. R., Chen F. C., Sugii N. (1992). Somatic embryogenesis and plant regeneration in *Anthurium andreanum* hybrid. *Plant Cell Reports*, 11: 442-458.
- Kuehnle A. R., Sugii N. (1991). Callus induction and plantlet regeneration in tissue culture of Hawaiian *Anthuriums*. *HortScience*, 26: 919-921.
- Leffring L., Hoogstrate J. C., Braster M. (1976). Weefselkweek. *Anthurium*: Onderzoek naar verbeteringsmethoden. *Vakblad voor de Bloemisterij*, 3: 17 (in Dutch).
- Martin K., Joseph D., Madasser J., Philip V. (2003). Direct shoot regeneration from lamina explants of two commercial cut flower cultivars of *Anthurium andreanum* Hort. *In Vitro Cellular and Developmental Biology-Plant*, 39: 500-504.
- Matsumoto T. K., Kuehnle A. R. (1997). Micropropagation of *Anthurium*. In: Bajaj Y. P. S. (Ed.). *High tech and micropropagation VI. Biotechnology in Agriculture and Forestry*, Vol. 40, Springer Verlag, Berlin Heidelberg: 14-29.
- Matsuoka M., Hinata K. (1979). NAA-induced organogenesis and embryogenesis in hypocotyl callus of *Solanum melongena* L. *Journal of Experimental Botany*, 30: 363-370.
- Murashige T., Skoog F. (1962). A revised medium for rapid growth and bioassays with tobacco tissue culture. *Physiologia Plantarum*, 15: 473-497.
- Ozcan S., Barghchi M., Firek S., Draper J. (1993). Efficient adventitious shoot regeneration and somatic embryogenesis in pea. *Plant Cell, Tissue and Organ Culture*, 34: 271-277.
- Pierik R. L. M., Steegmans H. H. M., Van der Meys J. A. J. (1974). Plantlet formation on callus tissue of *Anthurium andreanum* Lind. *Scientia Horticulturae*, 2:193-198.
- Sreelatha U., Ramachandran Nair S., Rajmohan K. (1998). Factors affecting somatic organogenesis from leaf explants of *Anthurium* species. *Journal of Ornamental Horticulture (New series)*, 1: 48-54.
- Tabei Y., Kanno T., Nishio T. (1991). Regulation of organogenesis and somatic embryogenesis by auxin in melon, *Cucumis melo* L. *Plant Cell Reports*, 10: 225-229.
- Vargas T. E., Mejías A., Oropeza M., de Garcia E. (2004). Plant regeneration of *Anthurium andreanum* cv. Rubrun. *Electronic Journal of Biotechnology*, 7: 285-289.