

**SOMATIC EMBRYO INDUCTION FROM LEAF- AND FLOWER BUD-DERIVED CALLI IN  
SEVERAL *MUSCARI* SPECIES AND CULTIVARS**

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**REFERENCES**

- Famelaer I., Ennik E., Eikelboom W., van Tuyl J. M., Creemers-Molenaar J. (1996). The initiation of callus and regeneration from callus of *Tulipa gesneriana*. *Plant Cell, Tissue and Organ Culture*, 47: 51-58.
- Godo T., Kobayashi K., Tagami T., Matsui T., Kida T. (1998). *In vitro* propagation utilizing suspension cultures of meristematic nodular cell clumps and chromosome stability of *Lilium x formolongi* hort. *Scientia Horticulturae*, 72: 193-202.
- Kim J. W., Soh W. Y. (1996). Plant regeneration through somatic embryogenesis from suspension cultures of *Allium fistulosum* L. *Plant Science*, 114: 215-220.
- Kromer K. (1989). The effect of light conditions on regeneration and level of endogenous growth regulators in *Muscari racemosum* L. Mill. bulb scale section cultured *in vitro*. *Acta Horticulturae*, 251: 173-181.
- Murashige T., Skoog F. (1962). A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiologia Plantarum*, 15: 473-497.
- Nakano M., Mizunashi K., Tanaka S., Godo T., Nakata M., Saito H. (in press). Somatic embryogenesis and plant regeneration from callus cultures of several species in the genus *Tricyrtis*. *In Vitro Cellular and Developmental Biology-Plant*.
- Priyadarshi S., Sen S. (1992). A revised scheme for mass propagation of Easter Lily. *Plant Cell, Tissue and Organ Culture*, 30: 193-197.
- Saito H., Nakano M. (2002). Plant regeneration from suspension cultures of *Hosta sieboldiana*. *Plant Cell, Tissue and Organ Culture*, 71: 23-28.
- Supaibulwatana K., Mii M. (1997). Organogenesis and somatic embryogenesis from young flower buds of *Agapanthus africanus* Hoffmanns. *Plant Biotechnology*, 14: 23-28.
- Suzuki M. (1989). *Muscari* Mii. In: Tsukamoto Y. (Ed.). The grand dictionary of horticulture, vol. 4, Shogakukan: 572-574 (in Japanese).
- Suzuki S., Nakano M. (2001). Organogenesis and somatic embryogenesis from callus cultures in *Muscari armeniacum* Leichtl. ex Bak. *In Vitro Cellular and Developmental Biology-Plant*, 37: 382-387.
- Tribulato A., Remotti P. C., Löffler H. J. M., van Tuyl J. M. (1997). Somatic embryogenesis and plant regeneration in *Lilium longiflorum* Thunb. *Plant Cell Reports*, 17: 113-118.