

BACTERIA DETECTION AND MICROPROPAGTION OF TEN *BUDDLEIA* CULTIVARS

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REFERENCES

- Brickell C. (1997). Encyclopedia of Garden Plants A-Z. The Royal Horticultural Society. Dorling Kindersley Limited: 194-196.
- Buzzo R. J. (1993). Field propagation of light sensitive species by seed. Combined Proceedings of International Plant Propagators Society, 43: 289-291.
- Catapan E., Otuki M. F., Viana A. M. (2000). *In vitro* culture of *Phyllanthus caroliniensis*. Plant Cell, Tissue and Organ Culture, 62: 195-202.
- Chambers S. M., Heuch J. H. R., Pirrie A. (1991). Micropropagation and *in vitro* flowering of bamboo *Dendrocalamus hamiltonii* Munro. Plant Cell, Tissue and Organ Culture, 27: 45-48.
- Chu I. Y. E., Kurtz S. L. (1990). Commercialisation of plant micropropagation. In: Ammirato P. V., Evans D. A., Sharp W. R., Bajaj Y. P. S. (Eds.). Handbook of Plant Cell Culture, 5: 126-164.
- Debergh P. C., Maene L. J. (1981). A scheme for commercial propagation of ornamental plants by tissue culture. Scientia Horticulturae, 14: 335-345.
- Debergh P. C., Read P. E. (1991). Micropropagation. In: Debergh P. C., Zimmerman R. H. (Eds.). Micropropagation: Technology and Application Netherlands, Kluwer Academic Publishers: 11-13.
- Duncan D. B. (1995). Multiple range and multiple F test. Biometrics, 11: 1-42.
- Duron M., Morand J. C. (1978). Amelioration de l'état sanitaire de *Buddleia davidii* 'Opera' par culture de meristems. Annales de Phytopathologie, 10: 371-374.
- Gamborg O. L., Miller R. A., Ojima K. (1968). Nutrient requirements of suspension cultures of soybean root cells. Experimental Cell Research, 50: 151-158.
- George G. F. (1993). Factors effecting growth and morphogenesis. Plant Propagation by Tissue Culture, Part 1: The Technology. Edington, Wilts, Exegetics Limited: 244-245.
- Jumin H. B., Ahmad M. (1996). High frequency *in vitro* flowering of *Murraya paniculata* (L.) Jack. Plant Cell Reports, 18: 764-768.
- Kim H. H., Chun C., Kozai T., Fuse J. (1998). Effect of photoperiod on flower bud development of *Spinacia oleracea* L. seedlings produced under artificial lighting conditions. In: Kozai T., Kubota C., Chun C. (Eds.). Collected papers on environmental effects and their control in plant propagation and transplant production, vol. 1: 382-384.
- Kozai T. (1991). Micropropagation under phototrophic conditions. Micropropagation. In: Debergh P. C., Zimmerman R. H. (Eds.). Micropropagation: Technology and Application. Netherlands, Kluwer Academic Publishers: 447-469.
- Lamb K., Kelly J., Bowbrick P. (1995). Propagation and uses. Nursery Stock Manual, Grower Manual No. 1, Nexus Media Limited, 99 pp.
- Lupi M. C., Bennici A., Locci F., Gennai D. (1987). Plantlet formation from callus and shoot-tip culture of *Helianthus annuus* (L.). Plant Cell, Tissue and Organ Culture, 11: 47-55.
- Morel G. M., Martin C. (1952). Guérison de dahlias atteints d'une maladie à virus. Comptes rendus hebdomadaire des séances de l'Académie des Sciences, Paris, 235: 1324-1325.
- Murashige T., Skoog F. (1962). A revised medium for rapid growth and bioassays with tobacco tissue cultures. Physiologia Plantarum, 15: 473-497.
- Nejad P., Ramstedt M., Granhall U. (2004). Pathogenic ice-nucleation active bacteria in willows for short rotation forestry. Forest Pathology, 34 (6): 369-381.

- Preece J. E, Sutter E. G. (1991). Acclimatization of micropropagated plants to the greenhouse and field. *In: Debergh P. C., Zimmerman R. H. (Eds.). Micropropagation: Technology and Application. Netherlands, Kluwer Academic Publishers: 71-93.*
- Rose J. B., Kubba J., Tobutt K. R. (2000). Induction of tetraploidy in *Buddleia globosa*. *Plant Cell, Tissue and Organ Culture*, 63: 127-132.
- Stead D. E., Hennessy J., Wilson J. (1998). Modern methods for identifying bacteria. *Plant Cell, Tissue and Organ Culture*, 15: 17-25.
- Sudha G. G., Seeni S. (1996). *In vitro* propagation of *Rauwolfia micrantha*, a rare medicinal plant. *Plant Cell, Tissue and Organ Culture*, 44: 243-248.
- Van Huylenbroeck J. M., De Riek J. (1995). Sugar and starch metabolism during *ex vitro* rooting and acclimatization of micropropagated *Spathiphyllum* 'Petite' plantlets. *Plant Science*, 111 (1): 19-25.
- Wenzel G., Bolik M., Deimling S., Debath S. C., Foroughi-Weir B., Schuchmann R. (1987). Breeding for disease resistant crop plants by cell culture techniques. *In: Green C. E., Somers D. A., Hackett W. P., Biesboer D. D. (Eds.). Plant Tissue and Cell Culture, vol. 3. Alan R. Liss, Inc. New York: 343-358.*