

**IN VITRO ADVENTITIOUS SHOOT FORMATION FROM PETIOLE EXPLANTS
OF *SWAINSONA SALSULA* TAUBERT**

Guo Dong Chen¹, Jun Yang^{1,2*}, Li Qiang Wang¹, Hui Liu¹, Shun Shen¹, and Feng Qin¹

¹College of Life Sciences, China West Normal University, Nanchong, Sichuan 637009, China,

*E-mail: yangjunlz@tom.com, *Fax: + 86-817-2568352

²Laboratory of Southwest China Wildlife Resources Conservation,
China West Normal University Nanchong, Sichuan, China

REFERENCES

- ALMEIDA W. A. B., FILHO F. A. A., PINO L. E., BOSCARIOL R. L., RODRIGUEZ A. P. M., MENDES B. M. J. (2003). Genetic transformation and plant recovery from mature tissues of *Citrus sinensis* L. Osbeck. *Plant Science*, 164: 203-211.
- BONGA J. (1982). Vegetative propagation in relation to juvenility, maturity, and rejuvenation. *In: Bonga J. M., Durzan D. J. (Eds). Tissue culture in forestry. Martinus Nijhoff/Dr. W. Junk Publishers. The Hague: 387-412.*
- CASANOVA E., MOYSSET L., TRILLAS M. I. (2008). Effects of agar concentration and vessel closure on the organogenesis and hyperhydricity of adventitious carnation shoots. *Biologia Plantarum*, 52: 1-8.
- DE KLERK G. J., ARNOLD – SCHMITT B., LIEBEREI R., NEUMANN K.-H. (1997). Regeneration of roots, shoots and embryos: physiological, biochemical and molecular aspects. *Biologia Plantarum* 39: 53-66.
- DE KLERK G. J., TER BRUGGE J., MARINOVA S. (1997). Effectiveness of indoleacetic acid, indolebutyric acid and naphthaleneacetic acid during adventitious root formation *in vitro* in *Malus* 'Jork 9'. *Plant Cell Tissue and Organ Culture*, 49: 39-44.
- FOGAÇA C. M., FETT-NETO A. G. (2005). Role of auxin and its modulators in the adventitious rooting of *Eucalyptus* species differing in recalcitrance. *Plant Growth Regulation*, 45: 1-10.
- GASPAR T. (1991). Vitrification in micropropagation. *In: Bajaj Y. P. S. (Ed.). Biotechnology in Agriculture and Forestry, vol. 17. High-tech and micropropagation I. Springer-Verlag, Berlin: 116-126.*
- GONG Z. C., YANG J., TAN X. (2006). Tissue culture of *Swainsonia salsula*. *Subtropical Plant Science*, 35: 57.
- ILIEV I. V., BESENDORFER V., PESKAN T. (1998). *In vitro* propagation of *Betula pendula* 'Dalecarlica'. *In: Tsekos I., Moustakas M. (Eds). Progress in Botanical Research. Kluwer Academic Publishers: 513-516.*
- ILIEV I., KITIN P., FUNADA R. (2001). Morphological and anatomical study of *in vitro* root formation of Silver birch (*Betula pendula* Roth.). *Propagation of Ornamental Plants*, 1: 10-19.
- ILIEV I., GAJDOSOVA A., LIBIAKOVA G., JAIN S. M. (2010). Plant micropropagation. *In: Davey M., Anthony P. (Eds). Plant Cell Culture: Essential Methods, John Wiley & Sons Ltd.: 1-23.*
- JIN B. (2009). *Flowers scroll*. China Agriculture Press, 60 pp.
- MACHAKOVA I., ZAZIMALOVA E., GEORGE E. F. (2008). *In: George E. F., Hall M. A., and De Klerk G.-J. (Eds.). Plant propagation by tissue culture. Vol. 1 The background. Springer: 175-204.*
- MAHALAKSHMI L. S., LEELEA T. B., KUMAR K., NARESH B., DEVI P. (2006). *In vitro* plant regeneration from the petioles of primary leaves of mungbean *Vigna radiata* (L.). *Plant Biotechnology*, 23: 409-411.
- MURASHIGE T., SKOOG F. (1962). A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiologia Plantarum*, 15: 473-497.
- SCHUELTER A. R., GRUNVALD A. K., AMARAL JÚNIOR A. T., DA LUZ C. L., LUZ C. L., GONÇALVES L. M., STEFANELLO S., SCAPIM C. A. (2009). *In vitro* regeneration of cocona (*Solanum sessiliflorum*, Solanaceae) cultivars for commercial production. *Genetics and Molecular Research*, 8: 963-975.
- THAPA R., DHAKAL D., GAUCHAN D. P. (2007). Effect of different sugars on shoot induction in cv. *Basmati*. *Kathmandu University Journal of Science, Engineering and Technology*, January, 1: 1-4.
- YANG J., HU Z., GUO G. Q., ZHENG G. C. (2001). *In vitro* plant regeneration from cotyledon explants of *Swainsona salsula* Taubert. *Plant Cell, Tissue and Organ Culture*, 66: 35-39.
- ZIV M. (1991). Quality of micropropagated plants – vitrification. *In Vitro Cellular & Developmental Biology-Plant*, 27: 64-69.
- ZIV M., MEIR G., HALEVY A. H. (1983). Factors influencing the production of hardened glaucous carnation plantlets *in vitro*. *Plant Cell, Tissue and Organ Culture*, 2: 55-65.