

**EFFECTS OF DIFFERENT CYTOKININS ON PROLIFERATION
OF *SORBUS BORBASII* 'HERKULESFÜRDŐ'**

Máté Ördögh¹, Erzsébet Jám bor-Benczúr^{1*}, Andrea Tilly-Mándy, and László Lelik²

¹Corvinus University Budapest, Faculty of Horticultural Science, Department of Floriculture and Dendrology,
H-1118 Budapest, 35-43 Villányi str., Hungary, *Fax: + 36 1 482 63 33,

*E-mail: erzsebet.benczur@uni-corvinus.hu

²Corvinus University Budapest, Faculty of Food Science, Department of Food Chemistry and Nutrition,
H-1118 Budapest, 35-43 Villányi str., Hungary

REFERENCES

- Arrilaga I., Marzo T., Segura J. (1991). Micropropagation of juvenile and adult *Sorbus domestica* L. *Plant Cell, Tissue and Organ Culture*, 27 (3): 341-348.
- Chalupa V. (1988). *In vitro* propagation of small-leaved linden (*Tilia cordata*), black locust (*Robinia pseudoacacia*) and mountain ash (*Sorbus aucuparia*) and growth of trees cultivated *in vitro*. *Lesnictvi*, 34 (8): 705-720.
- Dobránszki J., Magyar-Tábori K., Jám bor-Benczúr E., Kiss E., Lazányi J., Bubán T. (2002). Effects of conditioning of apple shoots with meta-topolin on the morphogenetic activity of *in vitro* leaves. *Acta Agronomica Hungarica*, 50 (2): 117-126.
- Dobránszki J., Jám bor-Benczúr E., Reményi M. L., Magyar-Tábori K., Hudák I., Kiss E., Galli Z. (2005). Effects of aromatic cytokinins on structural characteristics of leaves and their post-effects on subsequent shoot regeneration from *in vitro* apple leaves of 'Royal Gala'. *International Journal of Horticultural Science*, 11 (1): 41-46.
- Helrich K. (1990). *Official Methods of Analysis*. Association of Official Analytical Chemists, Inc. Arlington (Virginia, USA): 62-63.
- Iliev I., Zhelev P. (1994). Morphological and biochemical studies on *in vitro* rhizogenesis of regenerants of *Betula pendula* 'jougii'. *A Kertészeti és Élelmiszeripari Egyetem Közleményei, Publicationes Universitatis Horticulturae Industriaeque Alimentariae*, vol. LIV: 84-90.
- Iliev I., Besendorfer V., Peshkan T. (1998). *In vitro* propagation of *Betula pendula* 'dalecarlica'. In: Tsekos I., Moustakas M. (Eds.). *Progress in Botanical Research*. Kluwer Academic Publishers: 513-516.
- Jám bor-Benczúr E., Gécz J., Kiss I., Szafián Zs., Nagy T. (1998). Results in micropropagation of *Sorbus redliana* Karp. I. Culture initiation and multiplication. *Publicationes Universitatis Horticulturae Industriaeque Alimentariae*. Vol. VII: 77-80.
- Jám bor-Benczúr E., Ónadi K., Kissimon J., Horváth G. (1997). The effect of carbon source on *in vitro* multiplication, photosynthesis and anatomical structure of *Sorbus rotundifolia* L. *Acta Horticulturae*, 447: 157-159.
- Jám borné Benczúr E., Sinkó Z. (2005). Endemikus berkenyék. In: Jám borné Benczúr E., Dobránszki J.: *Kertészeti növények mikroszaporítása*. Mezőgazda Kiadó, Budapest, 256-258 (in Hungarian).
- Kissimon J., Tantos A., Mészáros A., Jám bor-Benczúr E., Horváth G. (1999). Stress alterations in growth parameters, pigment content and photosynthetic functions of *in vitro* cultured plants. *Zeitschrift für Naturforschung Section C, Biosciences* 54 (9/10): 834-839.
- Mándy A., Jám bor-Benczúr E., Szafián Zs., Csillag A. (1997). The effect of basic media and growth regulators on *in vitro* propagated *Sorbus degenii* 'Csákvár'. *Acta Horticulturae*, 447: 161-163.
- Molnár K., Mándy A., Jám bor-Benczúr E., Márta K. (1994). The preliminary results in micropropagation of *Sorbus rotundifolia* L. *A Kertészeti és Élelmiszeripari Egyetem Közleményei*, 54: 106-108.
- Murashige T., Skoog F. (1962). A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiologia Plantarum*, 15: 473-497.
- Ördögh M., Jám bor-Benczúr E., Tilly-Mándy A., Lelik L. (2006). The effects of growth regulators in proliferation of *Sorbus redliana* 'Burokvölgy'. *International Journal of Horticultural Science*, 12 (1): 77-83.
- Nikolaou P., Zagas D., Scaltsoyiannes V., Balas E., Xilogianni V., Tsoulpha P., Tsaktsira M., Voulgaridou E., Iliev I., Triantafyllou K., Scaltsoyiannes A. (2008). Advances in the micropropagation of service tree (*Sorbus domestica* L.). *Propagation of Ornamental Plants*, 8 (3): 154-157.
- Piagnani C., Bassi D. (2000). *In vivo* and *in vitro* propagation of *Sorbus* spp. from juvenile material. *Italus Hortus*, 7 (5): 3-7.
- Schmidt G., Tóth I. (2005). *Kertészeti Dendrológia*. Budapesti Corvinus Egyetem, Kertészettudományi Kar, egyetemi jegyzet, Budapest, 101-106 (in Hungarian).