

**OPTIMIZING THE ROOTING PROCESS IN PROPAGATION OF KAZANLAK OIL-BEARING  
ROSE (*ROSA DAMASCENA* MILL.) *IN VITRO***

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**REFERENCES**

- Badzian T., Hennen G., Fortima-Kern J. (1991). *In vitro* rooting of clonal propagated miniature rose cultivars. Acta Horticulturae, 289: 329-330.
- Campos P., Pais M. (1990). Mass propagation of the dwarf rose cultivars 'Rosamini'. Scientia Horticulturae, 43:321-330.
- Horn W. (1992). Micropropagation of Rose (*Rosa* L.). In: Bajaj Y. P. S. (Ed.). Biotechnology in Agriculture and Forestry. vol. 20 High-Tech and Micropropagation IV, Springer Verlag Berlin, Heidelberg: 320-342.
- Ibrahim R., Debergh P. (2000). Improvement of adventitious bud formation and plantlet regeneration from *in vitro* leaflet explants of rose (*Rosa hybrida* L.). Acta Horticulturae, 520: 271-280.
- Kornova K., Michailova J. (1994). Study of the *in vitro* rooting of Kazanlak oil-bearing rose (*Rosa damascene* Mill.). Journal of Essential Oil Research, 6: 485-492.
- Kuusiene S., Kandzeauskaite M. (2001). The influence of genotype and explant for callus induction and proliferation of *Rosa floribunda*. Acta Horticulturae, 560: 501-508.
- Murashige T., Skoog F. (1962). A revised medium for rapid growth and bioassay with tobacco tissue culture. Physiologia Plantarum, 15: 473-479.
- Pati P., Sharma M., Ahuja P. (2001). Micropropagation, protoplast culture and its implications in the improvement of scented rose. Acta Horticulturae, 547: 147-158.
- Sauer A., Walther F., Preil W. (1985). Different suitability for *in vitro* propagation of rose cultivars. Gartenbauwissenschaft, 50: 133-138.
- Siftar A. (1996). The influence of different dilutions of the modified Murashige and Skoog medium on rooting and growth of the *Rosa* cv. under *in vivo* conditions. Acta Horticulturae, 424: 361-362.
- Uzunova K. (1996). Clonal micropropagation of ornamental roses (*Rosa hybrida* L.). In: Iliev I., Zhelev P., Alexandrov P. (Eds.). Proceedings of the Second Scientific Conference "IPPS in Bulgaria - Propagation of Ornamental Plants": 271-279.
- Weiss E. (1997). Essential Oil Crops, Cambridge University Press, XI + 608 pp.
- Wisniewska-Grzeszkiewicz H., Podwyszynska M. (2001). Propagation of ground cover roses by stem cuttings and tissue culture. Acta Horticulturae, 547: 371-376.