Agrobacterium rhizogenes-Mediated Transformation of Hypericum tomentosum L. and Hypericum tetrapterum Fries.

Hedviga Komarovská, Annalisa Giovannini, Ján Košuth, and Eva Čellárová*

a P. J. Šafárik University, Faculty of Science, Institute of Biology and Ecology, Mánesova 23, 041 54 Košice, Slovakia. Fax: +421 55 633 73 53. E-mail: eva.cellarova@upjs.sk

b CRA-FSO, Experimental Unit for Floriculture and Ornamental Species, corso Inglesi 508, 18038, Sanremo (Imperia), Italy

* Author for correspondence and reprint requests

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This is the first evidence on successful Agrobacterium rhizogenes-mediated genetic transformation of two species from the genus Hypericum, H. tomentosum L. and H. tetrapterum Fries. Hairy root cultures were induced from root segments of both Hypericum species by two agropine wild-type strains of A. rhizogenes, ATCC 15834 and A4. The transgenic character of the hairy root cultures was proved by PCR amplification of the rolABCD genes. In some H. tetrapterum transgenic lines aux genes were detected as well.

Key words: Hairy Roots, Hypericum spp., rol Genes