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(54) Title: MULTIPLICATION AND IN VITRO FLOWERING OF ROSE CULTIVARS

(57) Abstract: The present invention is directed to compositions and methods of micropropagation of a rose plant and in vitro flowering of the rose plant. Young shoots are induced to produce buds in an enclosed vessel containing a first culturing medium comprising benzyladenine, an auxin and 2 % sucrose as carbon source. Buds are excised and cultured on a medium for propagation and multiplication of plantlets. Plantlets are then transferred to a medium comprising thidiazuron, an auxin and myo-inositol for induction of flower buds, followed by culture on a medium comprising benzyladenine and an auxin for plantlet elongation and finally culture in the fifth medium without phytohormone for flowering. Alternately, after propagation and multiplication, plantlets are transferred to a medium comprising zeatin, auxin and myo-inositol for induction of flower buds followed by culture on a medium without phytohormone for elongation and flowering.



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