

عنوان مقاله:

In Vitro Production of Bulblet in *Galanthus transcaucasicus* Fomin, an Endangered Medicinal Plant

محل انتشار:

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خلاصه مقاله:

To optimize conditions for micropropagating *Galanthus transcaucasicus* Fomin, the effect of explant type, different concentrations of sucrose, type and different concentrations of auxin were examined on bulblet production. For the induction of bulblets, three types of bulb scales were used as explants. A two-step sterilization procedure was applied. Assessments were made after incubation for ۲۰ weeks at $23 \pm 1^{\circ}\text{C}$ with ۱۶h photoperiods. Highest number of bulblets were proliferated culturing bulb scales on modified MS medium supplemented with ۲.۰ mg.l^{-۱} BA and ۲.۰ mg.l^{-۱} IBA. About ۲۷% of bulblets were bigger than ۵ mm in diameter, suitable for acclimatization. With the increase of sucrose concentration, number of bulblets decreased, but their size increased. This protocol provided a basis for future study on large-scale multiplication system for commercial nurseries of *Galanthus transcaucasicus*.

کلمات کلیدی:

Micropropagation, Snowdrop, Tissue culture

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