



In vitro Shoot Multiplication of *Haplophyllum virgatum* var. *Virgatum*
Axillary Bud Explants

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Plants belong to the genus *Haplophyllum* A. Juss. (Rutaceae), with 70 species, exist in warm, temperate and subtropical zones of earth including Eurasia and the tropical zone of northeast Africa. So far, the phytochemistry and medicinal properties of some of these species have been examined by analysing the contents of their essential oils, alkaloids, lignanes, glycosides and flavonoids, etc. [1]. For plant *in vitro* propagation, shoot multiplication through axillary bud culture would be the most suitable choice for obtaining vigorous shoots. *Haplophyllum virgatum* var. *virgatum* is one of the endemic varieties of the species which have limited to Geno region-Hormozgan province-Iran, so likely can categorized as an endangered species, its micropropagation has not yet been studied. Here, the effects of different concentrations of BAP (6-Benzylaminopurine), a plant cytokinin, employed *in vitro* on axillary bud explants for shoot multiplication. The seeds were surface sterilized and cultured on B5 medium for explants preparation. Axillary bud explants obtained from weakly produced plantlets and were cultured in MS medium supplemented with BAP in total concentrations of 0.25, 0.5 and 0.75 mg/L, and incubated in a growth chamber with 25 °C temperature, 16 h photoperiod and a photon flux density of 400 $\mu\text{mol m}^{-2} \text{S}^{-1}$. The most shoot multiplication observed in 0.75 mg/L BAP. The study on more BAP concentrations and the other kinds of plant kinetins are continued in our Lab.

Keywords: Axillary bud culture, *Haplophyllum virgatum*, Micropropagation, Shoot

References

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ارسال شده توسط

محبوبه عابدی، فرح کریمی، مرتضی یوسف زادی

در هشتمین کنگره ملی گیاهان دارویی که در تاریخ ۴ الی ۵ اردیبهشت ماه ۱۳۹۸ توسط شبکه ملی پژوهش و فناوری گیاهان دارویی با مجوز پایگاه استنادی علوم جهان اسلام (ISC) و کد اختصاصی ۹۸۱۹۰-۴۱۵۰۱ در دانشگاه تربیت مدرس تهران برگزار گردید، به صورت پوستر ارائه شده است.

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