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Organogenesis from Callus Culture of *Haplophyllum virgatum* var. *virgatum*

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Haplophyllum virgatum var. *virgatum* (Rutaceae) is an Iranian endemic plant which grows naturally only in Geno region of Hormozgan Province-Iran. Many species of *Haplophyllum* A. Juss. genus used in traditional medicine for the treatment of herpes, warts, stomachache, erysipelas, toothache, skin diseases [1] and in the treatment of testicular cancer [2]. The presence of essential oils, alkaloids, fixed oils, coumarins, sterols, flavonoids and lignans have been reported from different species of the genus [1, 3]. Plant tissue culture is a useful technique for plant regeneration. In the present study callus induced in leaf, shoot and root explants using B5 medium supplemented with kinetin (0.1, 0.2 and 0.5 mg/L) in combination with NAA and IAA (1, 2 and 5 mg/L) incubated in darkness at 25°C. The most callus fresh weight obtained when shoot explants cultured on B5 medium supplemented with 0.1, 0.2 mg/L Kin and 5 mg/L NAA after two months. Shoots regenerated on callus cultures in B5medium containing 1 and 2 mg/L BA and Kin. Different shoot regeneration percentages were observed in employed PGR treatments in cultured explants after two months. This is the first report of *in vitro* shoot regeneration of *H. virgatum* var. *virgatum* as an Iranian endemic plant.

References

[1] Bessonova, I.A.; Kurbanov D.; Yunusov, S.Y.; 1989, 25(1): 39-40.

[2] Sompheary E.; Giacometti S.; Ciccolini J.; Akhmedjanova V.; *Planta Medica*, 2008, 74(10): 1265-1268.



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سمیه ترابی، 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 ۴۱۵۰۱-۹۸۱۹۰ در دانشگاه تربیت مدرس تهران برگزار گردید، به صورت پوستر ارائه شده است.

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