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## Annals of Biological Research

Abstract

[In vitro propagation of damask rose\(Rosa damascenacv. Ispahan\)](#)

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This research was performed to investigate interactive effects of plant growth regulators on proliferation and rooting of *Rosa damascena* cv. Ispahan in Van der Salm (VS) medium, supplemented with 100 mg/l phloroglucinol. For proliferation, BAP (6-Benzylaminopurin) (0, 2, 4 and 8  $\mu$ M) and Zeatin (4.5 and 9  $\mu$ M) separately or in combination with 1  $\mu$ M NAA (1-Naphthalene acetic acid) in VS medium were used. Rooting was initiated in 1/2 strength VS media supplemented with combinations of NAA (0, 0.5, 1, 1.5  $\mu$ M) and IBA (Indole-3-butyric acid) (0, 0.5, 1, 1.5  $\mu$ M) in liquid or agar-gelled (with or without 3 g/l activated charcoal) containing 100 mg/l phloroglucinol. Results were recorded after five weeks. All experiments were analyzed in completely random design with five replications and comparison of means was conducted using Duncan Test. The best proliferation was observed in the medium containing 4  $\mu$ M BAP that was accompanied by maximum number of axillary shoots (2.28), maximum length of axillary shoots (10.40 mm) and maximum number of leaves per axillary shoots (4.27). At rooting stage, the liquid medium consisting of 0.5  $\mu$ M NAA + 1.5  $\mu$ M IBA resulted in the highest percent of rooting (100%), the maximum average root length (17.66 mm) and the maximum height of the rooted plantlets (59.2 mm). Rooted plantlets were successfully acclimatized in pots containing 1:1 (v/v) peat moss and perlite in a mist greenhouse.

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