THE EFFECT OF KINETIN, GIBBERILLIN AND INDOLE BUTYRIC ACID ON MICROPROPAGATION OF PEACH ROOTSTOCK

BAYDAWI  Prunus persica L.

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ABSTRACT

This study was conducted at the laboratory of plant tissue and Cell Culture, Department of Horticulture and Landscape Design, College of Agriculture and Forestry, Mosul University. Apical tips and nodes cuttings sterilized with NaOCl and cultured in MS medium supplemented with kinetin (0,2,4,6,8 and 10 mg/l), after 6 weeks, the best response appeared when the apical tips were cultured in MS media supplemented with 4 or 6 mg/l kinetin, which gave 100% percent, however 8 mg/l kinetin increased shoot number from apical tip(2 shoots) whereas 4 mg/l increased stoot length from nodes cutting, Apical tip cultured in MS medium supplemented with 2 mg/l BA with six concentrations of IBA+GA$_3$ (0+0, 0.1+0.1, 0.3+0.3, 0.5+0.5, 0.3+1, 0.1+2 and 0.5+2) mg/l respectively, the result showed that 0.5 mg/l IBA+2 mg/l GA$_3$ increased shoots length and reduce shoots number.

Key words: MICROPROPAGATION, KINETIN, GIBBERILLIN, PEACH.