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EFFECT OF BRASSINOLIDE, BENZYL ADENINE AND AUXINS ON PROPAGATION OF MYROBLAN PLUM AND GARNEM ROOTSTOCK

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ABSTRACT

This study was implemented in the tissue culture lab., College of Agriculture, Abu-Ghraib during the period Nov. 2011 to June 2014.. It was aimed to Effect of Brassinolide Benzyl Adenine and Auxins on propagation of Myroblan plum and Garnem Rootstock . The Sodium hypochloride concentration at 4.5% for 15 minutes was more effective on explants disinfections. Percentages of contaminated explants decreased to 0.00% for Garnem and Myrob lan rootstocks respectively. In establishment stage , single nodal segments responded better than terminal shoots. MS medium supplemented with 0.4 mg / L NAA of outgrowth explants in the field for Garnem and Myrob lan rootstocks gave responded 60% and 40% respectively. But the medium provided with 0.3 mg / L IAA for Garnem and Myrob lan gave responded 40%, suitable for Myrob lan responded with 100% but Garnem gave responded rate 50% with 0.4 mg / L . In multiplication stage , MS medium supplemented with 0.5 mg / L BL + 2 mg / L BA was the best for number of shoot for Garnem and Myrob lan (15.62 and 17.38 shoots / explants) respectively . In Rooting stage , MS medium supplemented with 1.5 mg / L IBA or NAA gave 100% rooting percentage for Garnem and Myrob lan.

Key words: Micropropagation, Brassinolide , Auxen , Benzyl adenine, Myroblan plum and Garnem Rootstock.