

## **EFFECT OF CYTOKININ AND AUXINS' CONCENTRATION ON MICROPROPAGATION PROCESS OF PEACH ROOTSTOCK GF-677 (PEACH X ALMOND HYBRID)**

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### **Abstract**

The object of this study is to evaluate the effect of phytohormones, in determining the optimal concentration of cytokinins and auxins in the culture medium, with influences in *in vitro* micropropagation of peach rootstock GF-677. Various concentrations of BAP and IBA (0; 0.5; 1; 1.5; 2 mg/l) were carried out, respectively in the phase of proliferation and rooting of GF-677 shoots. Each treatment includes 4 replications. The reaction of the shoots has been different related to concentrations. Best results in the proliferation phase were obtained in 1mg/l BAP concentration after 8 weeks of culture, number of shoots reaching 3.4 and 3.69 cm length. In rooting phase, 4-5 cm length shoots were transferred to different treatments in rooting. During the rooting stage the best results were obtained in the treatment with IBA 2 mg/l with number of roots 3.8 and roots length 4, 09 cm.

**Keywords:** *In vitro propagation, 6- Benzylaminopurine, Rooting, Rootstock GF-677*