EFFECT OF PACLOBUTRAZOL AND GIBBERELLIN ON CITRUS ROOT
Eduard Salomon, The Volcani Center, P.O.B.6, Bet-Dagan 50-250, Israel.

The effect of paclobutrazol (PP333, paclo) and GA_3 in nutrient solution on citrus root was determined in rooted leaf cuttings of C.macrophylla. The treatments were: None(C), paclo at 2ppm(P2) and 10ppm(P10), GA_3 at 10ppm(G10), and G10+P10. Total plant dry mass was doubled at the end of 76-day experimental period due entirely to the gain in root mass. Taproot mass was only slightly decreased by P2 and P10 and increased by G10. P10 reduced the increase caused by G10. G10 decreased dry mass in lateral roots which was not recovered by added P10. Taproot length was reduced by P2 and P10, and G10 only slightly counterbalanced the effect of P10. Number of lateral roots was decreased by all treatments, and average length of lateral roots was decreased by P2 and P10 but was not affected by G10. The anatomical picture of the roots will be presented.