

Effect of different hormonal treatments on rooting of greenhouse cucumber cuttings.

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This experiment was carried out in order to determine the most suitable hormonal treatment for increasing of root numbers in greenhouse cucumber Ruba c.v cuttings. This trial was conducted in a factorial (2x2x8) based on completely randomized block design with 6 replications. The factors studied on rooting (root number and length of the greatest root at two week rooting) were as follows: cutting type (nodal cutting and unnodal cutting), timing need to put base cutting in hormonal solutions (one minute and half minute) and hormonal treatments including IBA at concentrations of 500, 1000 and 1500 p.p.m, NAA at levels of 50, 100 and 150 p.p.m, lowest mixed concentration of two hormones and control (distill water).

The results showed that root number and length of the greatest root at nodal cuttings was more than unnodal cutting ($p < 0.01$). Number of roots in one minute treatment was more than half minute. However this factor was insignificant on length of the greatest root. The factor of hormonal was significant at %1 level on root number and was insignificant on length of the greatest root. The best hormonal treatment for increasing of root number was IBA at 1500 p.p.m concentration. The cuttings were rooted in all treatment about %100.