

**EFFECT OF PLANT GROWTH REGULATORS ON GROWTH AND FLOWER YIELD OF PETUNIA (*PETUNIA HYBRIDA* L.)**

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**Abstract:** Effect of Plant Growth Regulators on Growth and Flower Yield of Petunia (*Petunia hybrida*) was carried out at research field of Department of Horticulture, Allahabad School of Agriculture, SHIATS Allahabad. The experiment included 10 treatments and three replications. It was concluded that application of GA<sub>3</sub> -200 ppm in treatment T<sub>2</sub> was found to be superior on plant height, plant spread, number of branches, number of leaves, number of flowers per plant, and higher yield and the application of CCC - 500 ppm in treatment T<sub>5</sub> was found superior on size of flower, fresh weight of flower and dry weight of flower and the application of NAA - 30 ppm in treatment T<sub>7</sub> was found superior on early bud flower bud emergence was observed as compared with control.

**Keywords:** Plant Growth Regulators, GA<sub>3</sub>, CCC, NAA, Petunia

**REFERENCES**

**Abadi, D.H.** (2010). Yield and quality management of *Rosa hybrida* 'Poison' with plant growth regulators. *American - Eurasian Journal of Agricultural and Environmental Science*. 8: 6, 736-740. 20.

**Dabas, H.K., Mitra, L. and Dabas, S.** (2001). Effect of different concentrations of GA<sub>3</sub>, MH and NAA on primary branches of marigold (*Tagetes erecta* L.) *Indian Agriculturist*. 45: 3/4, 265-267.

**Gautam, S.K., Sen, N.L., Jain, M.C. and Dashora, L.K.** (2006). Effect of plant regulators on growth, flowering and yield of chrysanthemum (*Chrysanthemum morifolium* Ram.) cv. Nilima. *Orissa Journal of Horticulture*. 34: 1, 36-40.

**Kadam, R.E, Bankar, G.J, Bhosale, A.M, Rathod, N.G. and Dhengle, R.P.** (2002). Effect of growth regulators on growth and flower yield of China aster (*Callistephus chinensis* (L.) Nees). *Annals of Plant Physiology* 16:1,44-47.

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