

Click [www.researchjournal.co.in/online/subdetail.html](http://www.researchjournal.co.in/online/subdetail.html) to purchase.



## RESEARCH PAPER

# Influence of plant growth regulators on growth, seed yield and seed quality in okra [*Abelmoschus esculentus* (L.) Moench] cv. GAO-5 under middle Gujarat condition

ANIL KUMAR RAVAT\* AND NIRAV MAKANI

Department of Seed Science and Technology, B.A. College of Agriculture, Anand Agricultural University,  
ANAND (GUJARAT) INDIA (Email : [ravatanil@gmail.com](mailto:ravatanil@gmail.com))

**Abstract :** A field experiment was conducted, to study the effect of plant growth regulators on growth, seed yield and seed quality of okra [*Abelmoschus esculentus* (L.) Moench] cv. GAO-5 under middle Gujarat condition. Among the different treatments GA<sub>3</sub> @ 100 ppm was the best for growth and seed yield characters viz., plant height (cm), number of leaves, number of internodes per plant, days to flower initiation, days to 50 (%) flowering and GA<sub>3</sub> @ 50 ppm was the best for growth and seed quality characters viz., average pod weight (g), 100 seed weight (g), seedling dry weight (g) and seedling vigour index-II, while the plants sprayed with thiourea @ 500 ppm yielded the best for growth and yield characters viz., leaf area (cm<sup>2</sup>), LAI, total dry weight of plant (g), number of pods per plant, length of pod (cm), number of seeds per pod, seed yield per plant (g) and seed yield per hectare (q).

**Key Words :** Okra seed, GA<sub>3</sub>, NAA, Thiourea, Ethrel, Growth parameters, Seed yield parameters, Seed quality parameters

**View Point Article :** Ravat, Anil Kumar and Makani, Nirav (2015). Influence of plant growth regulators on growth, seed yield and seed quality in okra (*Abelmoschus esculentus* L. Moench) cv. GAO-5 under middle Gujarat condition. *Internat. J. agric. Sci.*, **11** (1): 151-157.

**Article History :** Received : 13.10.2014; Revised : 28.11.2014; Accepted : 12.12.2014