



## Effect of plant growth regulators on fruit quality of cape gooseberry (*Physalis peruviana* L.) cv. ALIGARH

GURPINDER KAUR, ARVIND PREET KAUR\*, BIKRAMJIT SINGH<sup>1</sup> AND SUKHDEV SINGH

Department of Horticulture, Faculty of Agriculture and Forestry, Khalsa College, AMRITSAR (PUNJAB) INDIA

(Email : drarvindpreet@gmail.com)

**Abstract :** An investigation was carried out in the Department of Horticulture, Khalsa College, Amritsar during the year 2010-11 to study the effect of plant growth regulators (NAA and GA<sub>3</sub>) on fruit quality of Cape gooseberry under Punjab conditions. In the trial, seven treatments as NAA (5, 10 and 15 ppm), GA<sub>3</sub> (10, 15 and 20 ppm) and control were applied immediately after fruit set and that were replicated four times. A unit of 8 plants per plot comprised one replication. GA<sub>3</sub> 20 ppm proved to be highly effective in enhancing the fruit size (2.3 cm x 2.56 cm), fruit weight (9.23 g), fruit volume (9.78 cc), TSS (12.77 %), reducing sugars (3.19 %), total sugars (9.2 %) and minimizing the acid contents (0.863 %) of fruits of Cape gooseberry. The highest concentration of NAA *i.e.* 15 ppm was more effective in improving these characteristics than minimum concentration of GA<sub>3</sub> *i.e.* 10 ppm.

**Key Words :** Aligarh genotype, GA<sub>3</sub>, NAA, Fruit physical and chemical characters

**View Point Article :** Kaur, Gulpinder, Kaur, Arvind Preet, Singh, Bikramjit and Singh, Sukhdev (2013). Effect of plant growth regulators on fruit quality of cape gooseberry (*Physalis peruviana* L.) cv. ALIGARH. *Internat. J. agric. Sci.*, **9**(2): 633-635.

**Article History :** Received : 11.10.2012; Revised : 19.03.2013; Accepted : 20.04.2013

---

\* Author for correspondence

<sup>1</sup>Krishi Vigyan Kendra, GURDASPUR (PUNJAB) INDIA