Int. J. Agricult. Stat. Sci. Vol. 16, Supplement 1, pp. 1163-1167, 2020 www.connectjournals.com/ijass
DocID: https://connectjournals.com/03899.2020.16.1163 ISSN : 0973-1903, e-ISSN : 0976-3392

ORIGINAL ARTICLE

A STUDY ON THE EFFECT OF GLUTAMIC ACID AND BENZYL ADENINE APPLICATION UPON GROWTH AND YIELD PARAMETERS AND ACTIVE COMPONENTS OF TWO BROCCOLI HYBRIDS

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Abstract: The aim of the study is to understand the effect of cultivars (Jasmine and Matsuri hybrids) and fertilizer combinations such as organic manure (poultry manure), benzyl adenine and glutamic acid on growth, yield and active components in broccoli curds. The results infer that the Matsuri cultivar significantly achieved the highest average leaf area, curd content of glutathione, sulforaphane and ascorbic acid. The jassmine hybrid achieved significant difference in diameter of curds and total yield of curds. The application of organic manure and benzyl adenine + glutamic acid treatment, either individually or in overlapping, achieved significant differences in all the studied indicators compared with control, especially in total yield and active components in the curds.

***Key words*:** Cultivars, Glutamic acid, Benzyl adenine, Glutathione, Sulforaphane, Ascorbic acid.

Cite this article

Olaa M. Hamza and Duraid K. A. AL-Taey (2020). A study on the effect of Glutamic acid and Benzyl adenine application upon Growth and Yield parameters and active components of two Broccoli hybrids. *International Journal of Agricultural and Statistical Sciences.* DocID: https://connectjournals.com/03899.2020.16.1163