

**Title** Effect of cold storage and gibberellic acid (GA<sub>3</sub>) on some quantitative traits of cut tuberose (*Polianthes Tuberosa* L. cv. Double)

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#### **Abstract**

In order to increase longevity, percent of opening florets and decrease ethylene production in tuberose, a research was conducted based on randomized complete block in three replications through factorial experiment. In this research, tuberose corms were soaked in 50, 100 and 150 mg/l concentration of gibberellic acid (GA<sub>3</sub>) for 24 hours. After planting and picking the spikes, those stored in a 5°C and 10°C cold storages. The results showed that these three characteristics were influenced by the interaction of GA) and cold storages. In this regards GA) with 50 mg/l concentration and cold storage 5°C reduced ethylene considerably and was the best, compare to control and other treatments. Furthermore, GA<sub>3</sub> with 150 mg/l and cold storage in 5°C increased percent of opening florets to 37.2 and longevity to 11.3 days, which was better than other treatments.