



ORIGINAL ARTICLE

EFFECT OF DIFFERENT CHEMICALS TO ENHANCE VASE LIFE OF TUBEROSE (*POLIANTHES TUBEROSA* L.) CUT FLOWERS

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Abstract: Tuberose (*Polianthes tuberosa* L.) is an important flower and grown in diverse climatic conditions for commercial purpose. Tuberose gained popularity in recent past due to its beauty, look, and many hues and aesthetic values. Despite of its beauty, tuberose flowers have a short shelf life, causing them to dry up early and decay within few days. Many research groups' attempts to improve the shelf life and flower quality of tuberose cut flowers by manipulating different chemicals and their concentration and combinations. Majority of these approaches include the use of non-harmful substances mainly salicylic acid, nanoparticles, and sucrose have been tried. These substances are known to extend the life and increase the quality of cut flowers. Many studies in the past showed that these substances separately or in combination have beneficial effect to extend the vase life and to improve floral longevity of tuberose cut flowers. Through this review, we have made an effort to discuss various strategies which may help to improve the vase life of tuberose cut flowers and their long-term maintenance in a distinctive and eco-friendly manner.

Key words: Cut flowers, Nano particles, *Polianthes tuberosa* L., Sucrose, Salicylic acid, Sodium Nitro Prusside, Vase life.

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