BUD GROWTH AND POSTHARVEST PHYSIOLOGY OF GLADIOLUS AND CHRYSANTHEMUM: A REVIEW

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Abstract: This paper deals with mechanism of flower bud growth and postharvest physiology of gladiolus and chrysanthemum. Both gladiolus and chrysanthemum are leading cut flowers trade in India as well as World. A spike of gladiolus occurs on an acropetal sequence of stage of bud development on a single axis. A critical stage in flower bud growth in the spike of gladiolus is initiated by gibberellic acid and sustained by sucrose. The important role of continued and sequential basipetal starch hydrolysis in the gladiolus petals could be to maintain by constant osmotic as well as a sink potential in the growing area of the petal. In case of, Chrysanthemum flower fresh and dry weights of the ray florals increase until the capitula is fully open. The soluble protein content declines after opening of capitula. The maximal activity of this enzyme and acid invertase coincide with the period of highest increment in fresh and dry weight. Postharvest senescence of gladiolus and chrysanthemum depends mainly of their methods of harvesting, transporting and increase the longevity of flowers. Two factor play a major role in regulating the vase life of cut flower are carbohydrate supply and water balance. This can be achieves through using of sucrose along with any of the following chemicals CoCl2, NiCl2, FeCl2 and AgNO3.

Keywords: Gladiolus, chrysanthemum, bud growth, postharvest, physiology, vase life

REFERENCES


