

IN VITRO PROPAGATION OF GERBERA (*Gerbera jamesonii*)**Dr. Firoz Mahmud¹**

Extended Summary

The explants of shoot tips, immature inflorescences, capitulum explants, axillary buds leaf with mid-rib and leaf blade segments as well as flower stalks obtained from selected varieties of gerbera cultivated in Bangladesh exploited for callus induction and *in vitro* regeneration of plantlets. Among the explants flower stalk were suitable and superior for callus induction. However, the highest numbers of multiple shoots were obtained when the flower bud derived callus was subculture on MS Medium supplemented with 4.0 mg/l BAP and 1.0 mg/l NAA. Root induction at the base of the *in vitro* regenerated shoots was tried using MS containing different concentrations of IBA. Best root induction was observed in MS medium supplemented with 0.3 mg/l IBA.

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