

# Symbiotic response of *Dianthus caryophyllus* root stock to different mycorrhizal fungi

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Accepted : November, 2008

## SUMMARY

Nine different VAM fungi viz. *Acaulospora laevis*, *Gigaspora margarita*, *Glomus caledonium*, *G. fasciculatum*, *G. intraradices*, *G. leptotihum*, *G. macrocarpum*, *G. mosseae* and *Scutellospora calospora* were screened for their ability to enhance the growth and P uptake in *Dianthus caryophyllus* under glass house condition. Among the fungi studied *Acaulospora laevis* and *Glomus mosseae* significantly increased plant height, stem girth and total biomass of *Dianthus caryophyllus* as compared to uninoculated plants. Similarly, the per cent root colonization and P uptake were also significantly higher in *A. laevis* and *G. mosseae* inoculated plants as compared to uninoculated plants. These results suggest that *A. laevis* and *G. mosseae* are better symbionts for inoculating *Dianthus caryophyllus* a member of *Caryophyllaceae*.

Key words : AMF (Arbuscular Mycorrhizal Fungi), *Dianthus caryophyllus*