# Growth of *Dipterocarpus alatus* Roxb. Seedlings inoculated with ectomycorrhizal fungi.

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## ABSTRACT

Growth of *Dipterocarpus alatus* Roxb. Seedling grown in sterilized soil noninoculated and inoculated with chopped fruit bodies of 3 ectomycorrhizal fungi i.e. *Russula aeruginea* Lindbl., *R. albida* Peck. And *R. sanguinea* Fr. was investigated under nursery condition. The experimental design was completely randomized design with 4 treatments and 5 replications. Height and diameter at root collar of the seedlings were measured monthly. Shoot-,root- and total dry weights and percentages of ectomycorrhizal root dry weight were determined when the seedlings were 7 months old.

Results of the experimenta revealed that heights, diameters at root collar, shoot-, root- and total dry weights of the seedlings in the treatments were significantly different. The seedlings inoculated with *R.aeruginea* showed the highest values of all mentioned growth parameters, followed by the seedlings inoculated with *R. sanguinea, R. albida* and noninoculated controls, respectively. However, there were no significant differences in shoot to root dry weight ratios and percentages of ectomycorrhizal root dry weights in the treatments. *R. aeruginea* and *R. sanguine*a were more suitable than *R. albida* in forming ectomycorrhizae with *D. alatus* seedlings.