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Evaluation of combined application of newer insecticides with some fungicides to control groundnut stem rot, *Sclerotium rolfsii sacc.* under *in vitro*

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KEY WORDS : *Sclerotium rolfsii*, Insecticides, Fungicides, Compatibility, *In vitro* ABSTRACT

An *in-vitro* experiment was conducted to determine the effect of different insecticides, fungicides and their combination treatments on radial colony growth of *Sclerotium rolfsii* Sacc. by following poison food technique in PDA medium. Two contact (chlorpyriphos 0.05%, thiodicarb 0.075%), three stomach and contact poison insecticides (chlorfenapyr 0.002%, spinosad 0.0025 and emamectin benzoate 0.003%), among the fungicides one systemic (hexaconazole 0.2%), one contact (Mancozeb 0.25%) and their ten insecticide-fungicide combinations were evaluated with recommended doses against *S. rolfsii* in laboratory during the year 2009-2010 at S.V. Agricultural College, Tirupati. Chlorpyriphos 0.05 per cent (70.33%) was the best insecticide to restrict the fungal growth effectively followed by emamectin benzoate (34.03%). The two fungicides *i.e.* mancozeb 0.25 per cent, hexaconazole 0.2 per cent and their combinations with insecticides were found effective in reducing (cent per cent) the growth of *S. rolfsii*. Fungicides do not shown any antagonism when mixed with insecticides.

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