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A comparative study of the efficacy of *Paecilomyces* species against root-knot nematode *Meloidogyne incognita*

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Abstract

Three *Paecilomyces* species viz., *Paecilomyces variotii*, *P. lilacinus* and *P. fumosoroseus* were examined at various intensity levels to manage root-knot nematode *Meloidogyne incognita*. Unlike *P. fumosoroseus*, increasing concentrations of *P. variotii* and *P. lilacinus* culture filtrates considerably inhibited egg-hatching and sustained juvenile transience. Increase in shoot and root weights were observed after applying biocontrol agents *in vitro* and *in vivo* on mungbean (*Vigna radiata*). Significant reductions in number of galls per root system as compared to the control treatment were observed when isolates of *P. variotii* and *P. lilacinus* were used. A variation in the efficacy of local isolates of *P. variotii* was also evident.