

Effect of seed treatment with *Pseudomonas fluorescens* and *Trichoderma viride* against *Meloidogyne incognita* on chickpea cv. Avrodhi under field conditions

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ABSTRACT : Studies were undertaken in experimental field of Faculty of Agricultural Sciences, Aligarh Muslim University, Aligarh during 2006-07 to determine the effect of *Pseudomonas fluorescens* and *Trichoderma harzianum* alone (each @ 10 g/kg seed having 10^8 cfu/g talk based formulation) and in combined treatment of both the biocontrol agents (@5+5 g/kg seed) and carbosulfan @ 3% ST w/w as treated control against *Meloidogyne incognita* on chickpea cv. Avrodhi. Experimental results revealed that highest improvement in number of nodules (81.3%) and seed yield (20.9%) and highest reduction in final nematode population (68.2%) and root-knot index (33.3%) was observed in seed treatment with *P. fluorescens* + *T. viride* followed by *T. viride* alone and *P. fluorescens* alone, respectively as compared to untreated control.

Key Words: Chickpea, *Meloidogyne incognita*, *Pseudomonas fluorescens*, seed treatment, *Trichoderma harzianum*.