



RESEARCH PAPER

Effects of bio consortium for the management of collar rot (*Sclerotium rolfsii*) disease of chickpea *in vivo* condition

Rakesh Gurjar*, A.R. Wasnekar, Yashowardhan Singh, Rohit Kumawat and Mahesh Kumar Mimrot¹
Department of Plant Pathology, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) India
(Email : rakeshgurja95@gmail.com)

Abstract : A experiment was conducted in 2019-20 *Rabi* cropping season to obtain information on the incidence of chickpea diseases. The investigation was entitled effects of bio consortium for the management of collar rot (*sclerotiumrolfsii*) disease of chickpea *in vivo* condition was conducted, Department of Plant pathology JNKVV. The experiment was laid out in Completely Randomized Design (CRD) concept comprising nine treatment combinations with three replications in net house condition. **Effect of bio consortium against collar rot (*Sclerotiumrolfsii*) disease incidence on variety JG-12:** Among the treatments minimum germination per cent 76.67 per cent was observed in T₈. Maximum pre-emergence mortality 23.33 per cent was recorded in T₈. Maximum disease incidence of 24.48 and 22.77 per cent was observed in T₈ and minimum mortality 17.37% was recorded in T₆. **Effect of bio consortium on collar rot (*Sclerotiumrolfsii*) disease and phenotypic parameters on variety JG-12:** Among the treatments minimum germination per cent 78.60 per cent was observed in T₈. Maximum shoot height 24.33, 22.07, 20.07, 19.27, 16.37, 15.67, 14.23 and 13.30 cm were recorded in T₆. Maximum root height 10.37 was recorded in T₆. Maximum vigour index per cent of 3,274.21 was recorded in T₆. **Effect of bio consortium on collar rot (*Sclerotiumrolfsii*) disease incidence on variety JG-14:** Among the treatments minimum germination per cent 77.78 per cent was observed in T₈. Maximum pre-emergence mortality 22.22 per cent was recorded in T₈. Maximum disease incidence of 24.27 per cent was observed in T₈. minimum mortality 16.24 per cent was recorded in T₆ (*T. viride* + *T. harzianum* + *P. fluorescens*). **Effect of bio consortium on collar rot (*Sclerotiumrolfsii*) disease and phenotypic parameters on variety JG-14.** Among the treatments minimum germination percent 80.68 per cent was observed in T₈. Maximum shoot height 26.37 was recorded in T₆. Maximum root length 11.53, was recorded in T₆. Maximum vigour index percent of 3,658.07 was recorded in T₆.

Key Words : *Sclerotiumrolfsii*, Bio consortium, Management chickpea

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***Author for correspondence:**

¹Department of Plant Pathology, Swami Keshwanand Rajasthan Agricultural University, Bikaner (Rajasthan) India