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Evaluation of fungicides, botanicals and bio-agents against sheath blight of rice caused by *Rhizoctonia solani* Kühn under irrigated eco-system

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ABSTRACT

The study was conducted to know the field efficacy of different fungicides, botanicals and bio-agents against sheath blight of rice under irrigated eco-system. Among the different treatments, the least per cent disease index (17.00 PDI) was recorded in Hexaconazole (Contaf 5 EC) with the highest grain yield (81.02 q/ha). This was followed by Validamycin 3L (21.60 PDI and grain yield 73.83 q/ha) and Carbendazim 50 WP (24.80 PDI and grain yield 69.21 q/ha). Among the botanicals and bio-agents, the least disease incidence was noticed in Tricure (Azadirachtin @ 0.03%) with 30.50 PDI and grain yield of 61.43 q per ha and *P. fluorescens* (Pfr-l) with 36.20 PDI with a grain yield of 54.02 q per ha. The C:B ratio was high in Hexaconazole (1:2.5) followed by Propiconazole (1:2.3).

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