

# Pathogenicity of entomopathogenic fungi against white grub, *Leucopholis lepidophora* (Blanchard) infesting sugarcane under pot culture experiment

■ PRADNYA B. MANE\* AND PANDURANG B. MOHITE

Division of Entomology, Mahatma Phule Krishi Vidyapeeth, College of Agriculture, KOLHAPUR (M.S.) INDIA

## ARTICLE INFO

**Received** : 02.08.2014

**Revised** : 14.01.2015

**Accepted** : 29.01.2015

## KEY WORDS :

*Metarhizium anisopliae*, *Beauveria brongniartii*, *B. bassiana*, *Leucopholis lepidophora*, Sugarcane

## ABSTRACT

The pathogenicity of entomopathogenic fungi, *Metarhizium anisopliae* (Metsch.) Sorokin, *Beauveria brongniartii* (Sacc.) and *Beauveria bassiana* (Balsana) Vuillrmin, was done against white grub, *Leucopholis lepidophora* (Blanchard) infesting sugarcane under pot culture experiment. In this investigation the virulence of different entomopathogenic fungi were determined by FYM enriched techniques against third instar grubs of *Leucopholis lepidophora* (Blanch.). An overall concentration range of  $2 \times 10^4$ - $2 \times 10^8$  conidia  $\text{ml}^{-1}$  of entomopathogenic fungi were used but among these,  $2 \times 10^8$  conidia  $\text{ml}^{-1}$  concentration was the most promising for highest grub mortality in each entomopathogenic fungi. *M. anisopliae* was found to be most effective fungus as compared to other fungi. It was observed that 34.49-62.07 per cent grub mortality occurred on 45 DAT in *M. anisopliae* at different conidial concentrations. *B. brongniartii* recorded 31.03 to 58.62 per cent grub mortality while, *B. bassiana* caused 27.59 to 55.18 per cent grub mortality at different conidial concentration. The results showed that *M. anisopliae* was found to be more pathogenic than *B. brongniartii* and *B. bassiana*.

**How to view point the article** : Mane, Pradnya B. and Mohite, Pandurang B. (2015). Pathogenicity of entomopathogenic fungi against white grub, *Leucopholis lepidophora* (Blanchard) infesting sugarcane under pot culture experiment. *Internat. J. Plant Protec.*, **8**(1) : 41-44.

\*Corresponding author:

Email: [pradnyamane03@gmail.com](mailto:pradnyamane03@gmail.com)