

## COMPATIBILITY OF ENTOMOPATHOGENIC FUNGI WITH IMIDACLOPRID FOR MANAGEMENT OF BROWN PLANTHOPPER, *NILAPARVATA LUGENS* STAL. (DELPHACIDAE: HEMIPTERA) IN RICE

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**Abstract:** Compatibility between imidacloprid and entomopathogenic fungi studies were conducted at IIRR (Indian Institute of Rice Research), Hyderabad. Imidacloprid was tested at three concentrations viz., recommended concentration (RC), sub lethal concentration (0.5 RC) and more than recommended concentration (1.5 RC) against three entomopathogenic fungi viz., *Beauveria bassiana*, *Metarhizium anisopliae* and *Lecanicillium lecanii* (*Verticillium lecani*) by using poison food technique under laboratory conditions. Imidacloprid was harmless to *B. bassiana* and *L. lecanii* at three tested concentrations and slightly harmful to *M. anisopliae* at 1.5 RC. Combined use of imidacloprid with entomopathogenic fungi at recommended concentrations against BPH under glasshouse conditions indicating increased mortality of BPH compared to imidacloprid alone spray.

**Keywords:** Compatibility, Entomopathogenic fungi, *Beauveria*, *Metarhizium*, *Lecanicillium*, Planthopper

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