Screening of Rice Genotypes for their Reaction to Resistance against Brown Planthopper *Nilaparvata lugens* (Stal.)

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ABSTRACT

One hundred and twenty (120) rice genotypes from Indian Institute of Rice Research (IIRR), Hyderabad and ANGRAU–Maruteru with two checks viz., PTB 33 (resistant check) and TN 1 (susceptible check) were screened for their relative resistance/ susceptibility reaction against brown planthopper at Regional Agricultural Research Station, Maruteru during *kharif* 2020 and *kharif* 2021. Out of the 120 rice genotypes screened during *kharif* 2020, none of the genotypes were found to be highly resistant, four genotypes were found to be resistant to BPH, one genotype found to be moderately resistant to BPH. During *kharif* 2021, none of the genotypes exhibited a damage score of 0, only one genotype *i.e.*, resistant check, PTB 33 exhibited a damage score of 1 and was categorized as resistant to BPH, ten genotypes recorded a damage score of 3 and were considered as moderately resistant to BPH.

Keywords: *Genotypes, Brown Planthopper, Screening, Damage score, Resistant and Susceptible*