

Genetics of resistance to brown planthopper (*Nilaparvata lugens* Stal.) in elite donors rice (*Oryza sativa* L.)

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The inheritance of resistance to the brown planthopper (*Nilaparvata lugens* Stal.) in four BPH resistant donors of rice (*Oryza sativa* L.) viz., Sinna Sivappu, PTB 33, Sudu Hondarawala and BM 71 was studied both in field and green house conditions at APRRI and RARS, Maruteru, Andhra Pradesh. The resistance is controlled by two genes i.e., one dominant and one recessive gene segregating independent to each other in BPH resistant donors Sinna Sivappu, PTB 33 and Sudu Hondarawala. In BM 71 resistance is governed by a single dominant gene.

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