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Donor validation studies on rice differential varieties against rice brown planthopper, *Nilaparvata lugens* (Stal.)

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ABSTRACT

Six differential varieties along with standard checks were evaluated for donor validation against rice brown plant hopper at glasshouse, Department of Entomology, IGKV, Raipur during 2013-14. All the differentials were resistant to Raipur BPH population. Among the differential tested, ARC 10550 exhibited list plant damage score (0.64) followed by Sinna Sivappu (0.75). Honeydew excretion values were minimum in Sinna Sivappu (15.3 mm^2) followed by Rathu Heenati (15.8 mm^2). The average probing marks were maximum in Sinna Sivappu (38.3) followed by Rathu Heenati (30.7) which were significantly higher than TN1, while nymphal survival value was minimum in variety INRC 3021 (29.21%). All the differentials showed resistant reaction in all the tests performed against Raipur population. These differentials were designated as the potential donors for BPH resistance.

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