

RESEARCH ARTICLE

Fine mapping of QTLs for *brown planthopper* (BPH), *Nilaparvata lugens* (Stal.) resistance in rice

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ARTICLE INFO

Received : 31.07.2013
Revised : 20.09.2013
Accepted : 25.09.2013

Key Words :

Rice, Mapping of QTL, Brown planthopper, *Nilaparvata*

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ABSTRACT

The development of resistant varieties requires to in depth studies on interaction between insect pests and genetics of plant mapping Quantitative Trait Loci (QTL) for BPH resistance therefore, study was conducted for fifty recombinant inbred lines (RILs) of Danteshwari/Dagad Deshi. These lines were first screened in glasshouse condition against BPH insect by using standard seed box technique. The genotyping of BPH resistant and susceptible plant was carried out by using 49 SSR primers but, only ten SSR markers showed parental polymorphism and also the result showed that the segregation pattern of marker deviated from the normal Mendelian 1:1 ratio and exhibited distorted segregation pattern. However, no clear cut linkage/association was noticed between markers and phenotypes.

How to view point the article : Chavan, M.N. and Sable, M.G. (2013). Fine mapping of QTLs for *brown planthopper* (BPH) *Nilaparvata lugens* (Stal.) resistance in rice. *Internat. J. Plant Protec.*, **6**(2) : 419-421.