

**MARKER ASSISTED BREEDING FOR RESISTANCE
TO BACTERIAL LEAF BLIGHT IN BC3F2
POPULATIONS OF TBR225/IRBB64 COMBINATION**

**Hoang Minh Trang, Nguyen Thi Hao, Doan Thi Minh Thuy,
Doan Van Son, Vo Thi Minh Tuyen**

Summary

In this study, linked markers and artificial inoculation were used to select plants carried 2-3 BB resistance genes (*xa5*, *Xa7* and *Xa21*) in 30 BC3F2 populations of TBR225/IRBB64 combination. The result indicated that six lines: A14, A19, A23, A24, A27 and A29 carried 2-3 BB resistance genes (*xa5*, *Xa7* and *Xa21*) and showed high resistance to the *Xoo* races in the field. Evaluation of agronomic characteristics of these lines in the field showed two line, A23 and A29, have the main agronomic traits similar to the origin variety, TBR225. These lines showed resistance to BB (point 0-1) in the field, better than that of TBR225 origin variety (point 3-5) in summer season 2019.

Keywords: *Marker-assisted selection, bacterial leaf blight (BB), resistance gene, backcross.*