

pathogens which threaten major food crops globally such as wheat, maize, rice, soybean and potato. According to Habas Bariana, this technique strengthens the rapid identification and characterization of new disease-resistant genes. The AgRenSeq technique is a combination of association genetics and R gene enrichment sequencing (AgRenSeq).

To clone R genes scientists selected a

rice, etc. have been successfully edited for developing disease-resistant varieties. For example, in wheat resistant against powdery mildew is developed by Wang Y et al. and Zang Y et al. by induction of mutation in Mildew Resistance Locus (MLO) and knocking out of TaEDR1 gene respectively [17,18]. To develop a resistance in tomato against powdery mildew a tomato SIMLO1 gene was edited by CRISPR-Cas9 [19].

In rice, the resistance against bacterial blight was enhanced by the

Contrary, the rice quality was improved by editing the starch-

Cassava	CRISPR/Cas9	EPSPS	Herbicide resistance	[46]
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Table 2 List of edited genes by CRISPR/Cas9 system for improving a 1†

cloning and CRISPR/Cas system being easier, safer and precise

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