Technology	1. Genomic selection models and SNP markers for red rot resistance
Year	2024
Features	• A set of markers with largest effect on red rot resistance was found in sugarcane. • The most significant SNP is co-locating with a cluster of four Chitinase A genes, NBS LRR and DMR region. • SNP marker AX-118043322 and AX-117916984 from linkage group A and markers AX-117251209 and AX-117216196 from linkage group B is associated with red rot resistance.
Use of the Technology	• SNP markers are used to scan for the presence of the major QTLs in sugarcane germplasm
Impact	• SNP markers are used to select red rot resistant parental clones in early selection stages of sugarcane breeding program.
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