Project Title: A Marker Survey on SB2 Mapping Population

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Objective

To evaluate the SB2 mapping population for non-parental alleles
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This marker test will determine the allelic status of individual lines in the SB2 population.

By knowing their genetic status, genotyping of the SB2 population can be focused only on informative lines.

Non-parental alleles will be removed from the mapping population.

Removal of line(s) possessing non-parental alleles will facilitate more efficient use of resources during sheath blight QTL mapping and marker development.

Experimental approach

Conduct DNA isolation from each SB2 line (a total of 325 lines) and their parental lines.

Fingerprint each line using 15 randomly distributed SSR polymorphic markers.

Determine if non-parental alleles are present among SB2 lines.

Eliminate line(s) carrying non-parental alleles from the SB2 mapping population.