

# Marker Assisted Selection For Drought Tolerance And Striga Resistance Introgressing Quantitative Trait Loci Qtl In Farmer Preferred Varieties Of Sorghum

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## Marker Assisted Selection For Drought

A number of different marker-assisted selection (MAS) approaches do exist for the improvement of polygenic traits. Results of a marker-assisted backcross (MABC) selection experiment aimed at improving grain yield under drought conditions in tropical maize are presented and compared with alternative MAS strategies.

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## **Marker-assisted selection to improve drought adaptation in ...**

Breeding for a quantitative trait like drought resistance would be facilitated by the development of a method of marker-assisted selection (MAS) that is capable of identifying high performing genotypes in early generations. Two recombinant inbred populations were grown from 1990 to 1994 at eight locations in Michigan and Mexico under stress and ...

## **Marker-Assisted Selection to Improve Drought Resistance in ...**

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## **Marker-assisted selection to improve drought adaptation in ...**

We combined marker-assisted selection with phenotypic selection to develop high-yielding NILs with drought tolerance and good grain quality. While majority of the NILs identified in the study showed early flowering and reduced plant height compared to Sabitri, the presence of variants for grain type and yield potential was also observed (Tables 3 , 4 ).

## **Marker-assisted breeding to develop the drought-tolerant ...**

Figure 3.4 Schematic diagram for the marker-assisted selection of desirable traits, such as drought tolerance  
SUCCESSFUL MARKER ASSISTED SELECTION FOR DROUGHT TOLERANCE AND DISEASE RESISTANCE IN PEARL MILLET Innovations-2002 10/7/2002 9:49 AM Page 23

## **SUCCESSFUL MARKER ASSISTED SELECTION FOR DROUGHT TOLERANCE ...**

To increase genetic gain for tolerance to drought, we aimed to identify environmentally stable QTL in per se and testcross combination under well-watered (WW) and drought stressed (DS) conditions

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and evaluate the possible deployment of QTL using marker assisted and/or genomic selection (QTL/GS-MAS). A total of 169 doubled haploid lines derived from the cross between CML495 and LPSC7F64 and 190 ...

### **Frontiers | Genomic Selection Outperforms Marker Assisted ...**

Marker Assisted Selection refers to indirect selection for a desired plant phenotype based on the banding pattern of linked molecular (DNA) markers. MAS is based on the concept that it is possible to infer the presence of a gene from the presence of a marker which is tightly linked to the gene of interest. MAS is applicable for genetic improvement of plants as well as animals.

### **Marker-Assisted Selection in Crop Improvement**

Marker assisted selection or marker aided selection (MAS) is an indirect selection process where a trait of interest is selected based on a marker (morphological, biochemical or DNA/RNA variation) linked to a trait of interest (e.g. productivity, disease resistance, abiotic stress tolerance, and quality), rather than on the trait itself. This process has been extensively researched and ...

### **Marker-assisted selection - Wikipedia**

A marker-assisted back-crossing (MABC) breeding programme was conducted to improve the root morphological traits, and thereby drought tolerance, of the Indian upland rice variety, Kalinga III. This variety, the recurrent parent in the MABC, had not previously been used for quantitative trait locus (QTL) mapping.

### **Marker-assisted selection to introgress rice QTLs ...**

The progress made in using marker-assisted selection (MAS) in pulses has been highlighted in a few recent reviews emphasizing on mapping genes controlling agronomically important traits and molecular breeding of pulses in general (Liu et al. 2007, Varshney et al. 2010b) and faba bean in

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particular (Torres et al. 2010).

## **Towards marker-assisted selection in pulses: a review ...**

Marker assisted recurrent selection (MARS) for drought tolerance in wheat (*Triticum aestivum* L.) Abstract: Drought tolerance involves many morphological, biochemical and physiological phenomenon; understanding all these phenomenon in detail and selecting the genotype for drought tolerance is a challenging task for wheat breeders worldwide.

## **Krishikosh: Marker assisted recurrent selection (MARS) for ...**

The marker-assisted derived drought and submergence tolerant rice varieties will help to reduce the yield losses associated with farming in drought-flood prone rainfed lowland areas, provide farmers with insurance of good yield and shall encourage marker-breeding programs developing better varieties tolerant to multiple abiotic and biotic stresses.

## **Marker Assisted Breeding to Develop Multiple Stress ...**

Three drought yield QTLs, qDTY 2.2, qDTY 3.1, and qDTY 12.1 with consistent effect on grain yield under reproductive stage drought stress were pyramided through marker assisted breeding with the objective of improving the grain yield of the elite Malaysian rice cultivar MR219 under reproductive stage drought stress. Foreground selection using QTL specific markers, recombinant selection using flanking markers, and background selection were performed.

## **Marker assisted pyramiding of drought yield QTLs into a ...**

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## **Academics in Marker Assisted Selection for Drought ...**

These introgression lines were bred by limited marker-assisted backcrossing of a putative major

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drought tolerance QTL into H 77/833-2 from the mapping population's drought tolerant parent.

## **Recent Advances in Marker-Assisted Selection for Drought ...**

Drought tolerance, however, is a complex character resulting from many interacting component traits that QTL mapping studies have shown to be quantitative. To demonstrate the efficiency of marker-aided selection (MAS) to manipulate QTLs, two examples of selection based on markers only are described.

## **Marker-aided selection of QTLs for drought tolerance in ...**

use in marker-assisted selection (MAS) to improve the drought tolerance of presently cultivated varieties [12]. The most suitable QTL for drought would be one that can overcome QTL×genetic background, QTL×environ-ment and QTL×ecosystem effects. To identify genomic regions with a consistent effect across environments, large

## **RESEARCH ARTICLE Open Access qDTY : a locus with a ...**

Marker-assisted recurrent selection (MARS) is a breeding method used to accumulate favorable alleles that for example confer tolerance to drought in inbred lines from several genomic regions within a single population. A bi-parental cross formed from two parents that combine resistance to Striga hermonthica with drought tolerance, which was improved through MARS, was used to assess changes in ...

## **Frontiers | Genetic Gains in Grain Yield of a Maize ...**

Drought tolerance qtls studies in maize and other crops, and the strategies for their use in marker assisted selection (MAS) in breeding programs have been extensively discussed in several comprehensive and recent reviews (1, 6, 8, 18, 27, 28). While the genetic dissection of performance in drought-

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