

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](#)

MOLECULAR MARKER ASSISTED SELECTION FOR DROUGHT ...

Pak J Bot, 42(4): 2443-2452, 2010 MOLECULAR MARKER ASSISTED SELECTION FOR DROUGHT TOLERANT WHEAT GENOTYPES SAJIDA BIBI1, MOHMUMMAD UMAR DAHOT2, GHULAM SHAH NIZAMANI, IMTIAZ AHMAD KHAN1, ABDULLAH KHATRI1, MAZHER HUSSAIN NAQVI1 FATEH CHAND OAD3 AND UMEED ALI BURIO3 1Plant Breeding and Genetics Division, Nuclear Institute of ...

Marker Assisted Selection for Drought Tolerance and Striga ...

Marker Assisted Selection for Drought Tolerance and Striga Resistance: Introgressing Quantitative Trait Loci (QTL) in Farmer Preferred Varieties of Sorghum Author Kahiu Ngugi Publish er LAP Lambert Academic Publishing, 2012 ISBN 3847372130, 9783847372134 Length 116 pages Subject s

Marker assisted selection for genetic improvement of ...

(IR25571R) were not able to tolerate drought, but the other eight parents appeared as drought tolerant rice genotypes Key words: Marker assisted selection, SSR markers, drought tolerance, rice INTRODUCTION Rice, one of the most important food crops for over half of the world's population, accounts for around 23% of the

Marker assisted selection for the improvement of Sarjoo-52 ...

range of drought tolerant variety to meet the needs of farmers in the drought-prone regions This approach demonstrates the effective use of marker assisted selection for a major QTL in a molecular breeding program Keywords: Background Selection, Drought, Foreground Selection, Marker Assisted Selection, Oryza Sativa, QTLs Introduction

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

Received 1 September 2004 Accepted 1 February 2005 Recent Advances in Marker-Assisted Selection for Drought Tolerance in Pearl Millet Rachid Serraj^{1,2}, C Tom Hash¹, S Masood H Rizvi¹, Arun Sharma^{1,3}, Rattan S Yadav⁴ and Fran R Bidingger¹ (1International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru 502 324, Andhra Pradesh, India

SUCCESSFUL MARKER ASSISTED SELECTION FOR DROUGHT ...

SUCCESSFUL MARKER ASSISTED SELECTION FOR DROUGHT TOLERANCE AND DISEASE RESISTANCE IN PEARL MILLET IGER INNOVATIONS 2002 18 T Catherine J Howarth and Rattan S Yadav SUCCESSFUL MARKER ASSISTED SELECTION FOR DROUGHT TOLERANCE AND DISEASE RESISTANCE IN PEARL MILLET Figure 31 Drought susceptible and drought tolerant pearl millet ...

Marker-assisted selection for downy mildew resistance and ...

of drought tolerance of pearl millet, a trait notoriously difficult to breed for using conventional methods Using marker-assisted selection, parental lines have been developed for the creation of improved hybrids and this work has advanced to the phenotypic evaluation of advanced marker-assisted backcross (MABC) products

Marker Assisted Selection for Relative Water Content ...

present on chromosome 23, linked marker NAU-2954, could be a major QTL conferring drought tolerance in cotton Using Marker Assisted Selection the variety CRIS-134 showed all concerned QTLs for drought tolerance Conclusion: QTL for relative water content qtlRWC-1 could be a major QTL for drought stress tolerance in cotton

PROSPECTS FOR MARKER-ASSISTED SELECTION OF ...

PROSPECTS FOR MARKER-ASSISTED SELECTION OF IMPROVED DROUGHT RESPONSES IN WHEAT S A Quarrie^{1*}, D Dodig², S Pekić³, J Kirby¹, B Kobiljski⁴ 1John Innes Centre, Norwich Research Park, Colney, Norwich NR4 7UH, UK 2Agricultural Research Institute-Serbia, Centre for Agricultural and Technological

Markers associated with a QTL for grain yield in wheat ...

performance under drought stress were contributed by Dharwar Dry Microsatellite marker wmc89 may be useful for marker assisted selection to enhance drought tolerance Keywords Wheat Drought Markers QTL Introduction Wheat (*Triticum aestivum* L) production is adversely affected by ...

Marker Assisted Breeding to Develop Multiple Stress ...

to occurrence of drought or submergence or both in the rainfed ecosystems In this study, the strategy of marker assisted backcross selection in the early stages combined with phenotypic selection at later stage of development has been followed The present study was conducted with the aim to develop the drought-submergence tolerant

Drought Tolerance in Maize: Indirect Selection through ...

initial promise of marker-assisted selection for quantitative traits, information on quantitative trait loci (QTL) has not directly led to drought tolerant cultivars (Tuberosa et al, 2002; Collins et al, 2008) As an alternative to selection based on markers with significant effects, genomewide

Combining drought and submergence tolerance in rice ...

Combining drought and submergence tolerance in rice: this stage onward, a tandem marker-assisted and pheno-typic selection approach was used to advance the lines First, the BC 2F

Genomics-based approaches to improve drought tolerance of ...

the drought tolerance and yield of crops under water-limited conditions more effectively Marker-assisted selection is already helping breeders improve drought-related traits Analysis of sequence data and gene products should facilitate the identification and cloning of genes at ...

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

Marker-assisted breeding to develop the drought-tolerant version of Sabitri, a popular variety from Nepal Shalabh Dixit Ram Baran Yadaw Krishna Kumar Mishra

Marker-assisted selection strategy to pyramid two or more ...

Marker-assisted selection strategy to pyramid two or more QTLs for quantitative trait-grain yield under drought Arvind Kumar^{1*}, Nitika Sandhu¹, Shalabh Dixit¹, Shailesh Yadav¹, B P M Swamy¹ and Noraziyah Abd Aziz Shamsudin^{1,2} Abstract Background: Marker-assisted breeding will move forward from introgressing single/multiple genes governing a

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

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 ...

Marker assisted screening of wheat (*Triticum aestivum* L ...

Marker assisted screening of wheat (*Triticum aestivum* L) cultivars for drought tolerance and yield improvement Ikram Muhammad 1, Inamullah 1, Habib Ahmad 1, Badshah Alam 1, Imtiaz Ahmed Khan 2, Israr Ahmad 1, Ziaullah 1, Ayaz selection and identification of drought resistant varieties and their further breeding The present study was

Marker-assisted backcross breeding for improvement of ...

Marker-assisted foreground selection was employed using SSR mark- ers linked to drought-tolerant QTLs (Table 1), and background selec- tion was carried out using SSR markers to identify plants with

Characterization and Validation of Molecular Markers ...

3 Assess physiological traits (phenotypes) linked to these molecular markers in drought and heat tolerance; 4 Identify and characterize ideal phenotypes of newly developed drought and heat tolerant lines using verified markers to facilitate marker assisted ...