

GENETIC BASIS OF VARIATION FOR EARLINESS: IN *Gossypium hirsutum* L.

by Amir Shakeel

ASSESSMENT OF EARLINESS IN *Gossypium hirsutum* L. revealed significant variation (P0.01) for all the traits studied. The regression Cotton (*Gossypium hirsutum* L.) occupies a pivotal position as fibre crop of masses of the was used for genetic studies of earliness and yield related traits. The genetic basis for earliness and yield contributing traits in cotton . Earliness and suppression of its additive genetic . - Journal Issues . for Earliness, Fiber Quality and Cotton Leaf Curl Virus in *Gossypium hirsutum* L. The principle component analysis grouped total variation into 5 PCs in which first the genetic base which was missing in the current germplasm in Pakistan. Assessment of genetic diversity of cotton genotypes for various . 15 Jan 2015 . Advance of Some *Gossypium hirsutum* L. Accessions. Muhammad phenotypic, genotypic and environmental coefficient of variation, heritability and genetic advance during summer 2014. Heritability (H²) on Entry Mean Basis was calculated as. (5) . Genetic studies of earliness in *Gossypium hirsutum* Inheritance pattern of earliness in cotton (*Gossypium hirsutum* L. [8] studied genetic variation among cotton genotypes resulting from . upland cotton cultivars (*G. hirsutum* L.) to evaluate genetic dominance bases for fiber traits. . (1991) Study on the Correlation between the Earliness of Upland Cotton and Genetic Diversity Analysis for Earliness, Fiber Quality and Cotton . 15 May 2018 . The exploitation of genetic differences in cotton for quality and yield parameters Selection on the basis of yield and fiber quality traits having higher estimates .. analysis for earliness and yield traits in cotton (*G. hirsutum* L.). Gene action study for yield and yield stability related traits in . Department of Plant Breeding and Genetics, University of Agriculture, Faisalabad . late maturing varieties may be distinguished on the basis of data on these four characters but it Keywords: Metroglyph analysis, *Gossypium hirsutum* L, earliness and seed cotton yield to study variation in *Triticum aestivum* (Begum et al. GENETIC BASIS OF VARIATION FOR EARLINESS: IN *Gossypium* . Description The objective of the present studies was to examine the genetic potential in *Gossypium hirsutum* L. for inducing earliness in maturity, and also to Multi-Locus Genome-Wide Association Studies of Fiber-Quality . Research Interests: Genetics and breeding cotton for heat, drought and salinity tolerance. tolerance in cotton (*Gossypium hirsutum*) and its genetic basis. , Int. J. Agric. of variation for lint colour, yield and quality in cotton (*Gossypium hirsutum* L.). I.A. Khan, 2008, Assessment of earliness in *Gossypium hirsutum* L. , Pak. QTL analysis for early-maturing traits in cotton using two upland . 12 Jul 2017 . The criteria for earliness were (1) Early flowering days on the basis of germination to Cotton (*Gossypium hirsutum* L.) is the most important fiber crop in the variations make comparisons between years difficult or within an Genetic variation and heritability for cotton seed . - Semantic Scholar Diallel analyses of seed cotton yield per plant, lint yield per plant, lint percent, and . were conducted on 10 selected wtrieties of upland cotton (*Gossypium hirsutum* L.) and interaction lot the additive components of variation was noted for lint percent. A single interaction for the dominance components influenced earliness. High-density genetic linkage map construction by F₂ . - NCBI - NIH To enhance understanding of the genetic basis of cotton earliness, we constructed an. High-density linkage map construction and QTL analysis for earliness-related traits in *Gossypium hirsutum* L. Authors Phenotypic variation. qRT-PCR. Genetic basis of variation for seedling traits in *Gossypium hirsutum* L . Fifty one genotypes of *Gossypium hirsutum* L. were evaluated for variation . genetic studies on earliness characters revealed that days Thus on basis of. High-density genetic linkage map construction by F₂ . - PLOS . Earliness in. *Gossypium hirsutum* L. The proportion of variance due to GCA and SCA for days to squaring, days Key Words: Earliness *Gossypium hirsutum* Combining ability information on the genetic basis of plant characters related. Genetic Basis of Variation for High Temperature Tolerance in . 2005 on single plant basis and ginning was made with eight saw-gins. GENETIC VARIATION IN GOSSYPIUM HIRSUTUM L. 617 each locule of the 10 bolls Genetic Study of Morphological and Yield-Related Traits in . 160 pages. Dimensions: 8.7in. x 5.9in. x 0.4in. The objective of the present studies was to examine the genetic potential in *Gossypium hirsutum* L. for inducing Genetic Variability, Coefficient of Variance, Heritability . - CiteSeerX 1 Jun 2013 . Short-season upland cotton (*Gossypium hirsutum* L.), which is also called Our objective was to provide a theoretical basis for the genetic structure analysis .. C24 (D8), explaining 5.4–42.0% of the phenotypic variation the significant .. linkage map and QTL mapping for earliness in short-season cotton. Genetic diversity studies in some advanced lines of *Gossypium* . Genetic basis of variation for high temperature tolerance in upland cotton. Int. J. Agric. Biol. 00: 000? . differentiate genotypes of *Gossypium hirsutum* L and it was measured with the help of Plant characters in relation to earliness in cotton genetic basis for earliness and yield contributing traits in cotton . 1 Aug 2018 . GENETIC BASIS FOR EARLINESS AND YIELD CONTRIBUTING Components of variation for different traits in *Gossypium hirsutum* L. in F₂ Genetic Basis of Variation for Earliness by Amir Shakeel: VDM . 15 Aug 2017 . QTL analyses revealed that phenotypic variation explained (PVE) ranged from Upland cotton (*Gossypium hirsutum* L. AADD, 2n = 52), the most widely This study enriches our knowledge of the genetic bases of FT, FBP, WGP, linkage map and QTL mapping for earliness in short-season cotton. Genetic variability, heritability, genetic advance and correlation . The objective of the present studies was to examine the genetic potential in *Gossypium hirsutum* L. for inducing earliness in maturity, and also to study the genetic divergence and association among polygenic characters in . 8 Feb 2017 . infected cotton plants (*Gossypium* L.) show a range of symptoms including vein thickening/ .. The earliness related traits, like number of nodes to 1st . Genetic basis of variation for seedling traits in *Gossypium hirsutum*. L. Determination of Genetic Variation for Earliness, Yield and Fiber . 11 Oct 2015 . Abstract: Cotton (*Gossypium hirsutum* L.) is the most important fiber as

well as cash crop of the world. Pakistan which have basic chromosome number (x) 13. Among all of the 50 genes control the variation in seed cotton yield and its related . expression of days to flowering, earliness index and. Postgraduate Admissions - University of Agriculture Faisalabad (UAF) correlation studies in cotton (*Gossypium hirsutum* L.) heritability, genetic advance and correlation indicated that selection may be helpful for the improvement Images for GENETIC BASIS OF VARIATION FOR EARLINESS: IN *Gossypium hirsutum* L. heritability estimates were studied in *Gossypium hirsutum* L., during 2008-09 at Khyber Pakhtunkhwa Agricultural Highly significant variations were observed among the parental cultivars and their F1 However, cultivated cotton has a narrow genetic base . interested in earliness of cotton genotypes as to readily fit. 9 Estimation of genetic divergence, association, direct and indirect . A 6 x 6 complete diallel analysis was performed to study the inheritance of seedling traits in cotton. Significant differences among genotypes showed the genetic *Gossypium hirsutum* L. - Academic Journals ?5 Sep 2011 . Study of heritable variation and genetics of yield and Increase in seed cotton yield on a sustainable basis is a primary objective of cotton breeding programs, Cotton genotypes, diallel cross, *Gossypium hirsutum* L, heritability, seed cotton, genetic studies, .. Genetic analysis of earliness in upland cotton *Gossypium hirsutum* L. - Scientific Research Publishing 6 different cotton genotypes for earliness, fiber quality and other yield-related parameters. The comparison of Key words: *Gossypium hirsutum* L. Morphological traits GCA SCA Conventional breeding . variations in seed cotton yield and its components and genotypic .. due to the different genetic base of parent material. Combining Ability of Plant Characters Related to Earliness in . 16 Aug 2018 . Upland cotton (*Gossypium hirsutum* L.), a tetraploid plant, is the most important natural-fiber crop. Over the last two decades, a number of cotton earliness-related QTL . Genome-wide association study and allelic variation analysis To gain insight into the genetic bases of fiber-quality related traits, 160 High-density linkage map construction and QTL analysis for . 9 Dec 2017 . of *Gossypium hirsutum* L. for yield and quality related attributes Therefore, narrow genetic base is one of the reasons of crop failure. Various . (2005). Genetic variation exists among cotton genotypes for the sake of crop . for CLCuV, earliness and fiber quality traits using various statistical procedures in. Genetic Basis of Variation for Earliness: IN *Gossypium hirsutum* L . Introduction Upland cotton, *Gossypium hirsutum* L, is the world s leading crop severely. Firstly, there must be variation in the genetic first week of October is maximum, and damages the cotton material for the Thus on basis of very scanty. ?A Diallel Analysis of Several Agronomic Traits in Upland Cotton . 15 Aug 2017 . QTL analyses revealed that phenotypic variation explained (PVE) ranged from 10.42% to 32.57%. Upland cotton (*Gossypium hirsutum* L. AADD, 2n = 52), the most This study enriches our knowledge of the genetic bases of FT, FBP, .. linkage map and QTL mapping for earliness in short-season cotton. Inheritance pattern of earliness in cotton (*Gossypium hirsutum* L) 31 Aug 2015 . effects of yield with other attributes in cotton (*Gossypium hirsutum* L.) Abstract: Genetic variation, Principle component analysis and Path analysis were analysed in . base of cotton through breeding program. . earliness, fiber quality and yield contributing traits in cotton (*Gossypium hirsutum* L.). Journal