Genetic Variation In Solanum

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Exploring Genetic Variation in the Tomato (Solanum Section ...
Solanum pimpinellifolium, due to its close relationship to S. lycopersicum, has been a genetic source for many commercially important tomato traits. It is a wild species found in the coastal areas of Peru and Ecuador. In this study, the genetic variation of S. pimpinellifolium was studied using the diversity found in 10 microsatellites in 248 plants spread throughout its entire distribution ...

A Comparative Genetic Linkage Map of Eggplant (Solanum ...
We generated an F 2 population between SI and SC genotypes of a single species, Solanum pennellii, to examine the genetic basis of intraspecific variation in UI against other species, and to determine whether loci underlying SI are genetically associated with this variation.

Natural genetic variation for expression of a SWEET ...
We explored genetic variation by sequencing a selection of 84 tomato accessions and related wild species representative for the Lycopersicon, Arcanum, Eriopersicon, and Neolycopersicon groups which has yielded a huge amount of precious data on

Exploring genetic variation in the tomato (Solanum section ...
Genetic Variation In Solanum We explored genetic variation by sequencing a selection of 84 tomato accessions and related wild species representative of the Lycopersicon, Arcanum, Eriopersicon and Neolycopersicon groups, which has yielded a huge amount of precious data on sequence diversity in the tomato clade.

Population Genetic Study of Eggplants (Solanum) Species ...
Exploring genetic variation in the tomato (Solanum section Lycopersicon) clade by whole-genome sequencing. This is the prepeer reviewed version of the following article: The Plant Journal 80.1 (2014): -

High-Density SNP Genotyping of Tomato (Solanum ...
Fgr in tomato is a phenotypically characterized genetic trait with natural genetic variability for modified fructose accumulation in fruit. Considering both the rarity of the fructose accumulation trait as well as its potential importance in contributing to fruit quality, we undertook a map‐based cloning of the Fgr gene, leading to its functional identification as a member of the SWEET family of sugar transporters.

(PDF) Exploring genetic variation in the tomato (Solanum ...
For tomato (Solanum lycopersicum L), breeding has involved the competing forces of narrowed genetic variation due to best by best crosses followed by selection , , and the expansion of genetic variation due to the introgression of genes for biotic stress resistance from wild species – .

(PDF) Exploring genetic variation in the tomato (Solanum ...
Field experiments were conducted in Dharwad, Karnataka, India, during the 2006 kharif season, to study the genetic variation among 30 tomato germplasm lines and determine the heritability and genetic advance. Observations were recorded for a number of characters including days to first flowering, days to 50 percent flowering, plant height, number of branches per plant, average fruit weight,...

Genetic and bioclimatic variation in Solanum pimpinellifolium.
In this study, the genetic variation of S. pimpinellifolium was studied using the diversity found in 10 microsatellites in 248 plants spread throughout its entire distribution area, includ-ing...

Exploring genetic variation in the tomato (Solanum section ...
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(PDF) Genetic and bioclimatic variation in Solanum ...
Population genetics of eggplants (Solanum species) was studied using RAPD (Random Amplified Polymorphic DNA) markers in six states (populations) within Nigeria, Tropical West Africa. The aim was to estimate the actual amount of polymorphism in each population and the overall population combined together.

Genetic variability in tomato (Solanum lycopersicon [Mill ...
Tomato (Solanum lycopersicum L.) has undergone intensive selection during and following domestication. We investigated population structure and genetic differentiation within a collection of 70 ...

Intraspecific Genetic Variation Underlying Postmating ...
We calculated the pairwise genetic distance matrix for the 322 tomato genotypes in TASSEL v5.2.52. Genetic distance between tomato genotypes ranged from 0.092 to 0.443, with an average distance of 0.270 (Table 1 and Table S2). Among them, the combination of genotypes TAM-CS-138 and USDA-273 revealed the smallest genetic distance (0.092).

High-Density SNP Genotyping of Tomato (Solanum ...
Genetic variation—primarily in 19 genetic loci of seven enzyme systems—was analyzed in accessions from various parts of the geographic range ofSolanum pennellii, which according to all tested biosystematic criteria behaves like a species ofLycopersicon.

Genetic variation in Solanum pennellii : Comparisons with ...
We explored genetic variation by sequencing a selection of 84 tomato accessions and related wild species representative of the Lycopersicon, Arcanum, Eriopersicon and Neolycopersicon groups, which has yielded a huge amount of precious data on sequence diversity in the tomato clade.

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Genetic Diversity and Population Structure of Tomato ...
Solanum pimpinellifolium; genetic differentiation; linkage disequilibrium; RADseq; The wild tomato species Solanum pimpinellifolium is a native perennial shrub in Ecuador and Peru, ranging along the western Andean slopes to the coastal regions. It is believed that S. pimpinellifolium originated in northern Peru and then diversified into several subpopulations after it migrated to Ecuador and ...

Population structure and genetic differentiation ...
A molecular genetic linkage map based on tomato cDNA, genomic DNA, and EST markers was constructed for eggplant, Solanum melongena . The map consists of 12 linkage groups, spans 1480 cM, and contains 233 markers. Comparison of the eggplant and tomato maps revealed conservation of large tracts of colinear markers, a common feature of genome evolution in the Solanaceae and other plant families.