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## **Genetic Variation In Solanum**

We explored genetic variation by sequencing a selection of 84 tomato accessions and related wild species representative of the

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Solanum, Lycopersicon,

Arcanum, Eriopersicon

and Neolycopersicon

groups, which has

yielded a huge amount

of precious data on

sequence diversity in

the tomato clade.

**Exploring Genetic**

**Variation in the**

**Tomato (Solanum**

**Section ...**

The evolutionary

history of Solanum

genomes has also been

investigated from the

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perspective of chromosome organization. The study by Szinay et al . involving cross-species BAC FISH painting of Solanum species revealed few large rearrangements in the short arm euchromatin of chromosomes 6, 7 and 12, whereas Anderson et al .

**Exploring genetic variation in the tomato (*Solanum***

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**section ...**

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solanum 2/5

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Mathilde Causse  
2016-11-21 This book  
describes the

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## **Genetic Variation In Solanum | datacente rdynamics.com**

Breeding involve the selection of specific phenotypes, limiting the genetic variation of the population. Herein, a notable genetic loss due to breeding was detected in the modern tomato gene pool. A wide selection of tomato (*Solanum lycopersicum* L.) genotypes with diverse

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*Solanum*

origin and breeding history (14 modern varieties, 71 landraces and 22

**Exploring genetic diversity of tomato (*Solanum* ...**

Exploring genetic variation in the tomato (*Solanum* section *Lycopersicon*) clade by whole-genome sequencing. This is the pre-peer reviewed version of the following article: The Plant



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Journal 80.1 (2014): -

**Exploring genetic variation in the tomato (*Solanum* section ...**

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

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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.

**Natural genetic variation for expression of a SWEET ...**

For tomato (*Solanum lycopersicum*L),

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Solanum  
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 -.

**High-Density SNP  
Genotyping of  
Tomato (Solanum ...**

Baswana KS, Bhatia

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MK, Dudhan D. Genetic  
variability and

heritability studies in

rainy season brinjal

(*Solanum melongena*

L). Haryana J. Hort. Sci.

31. 2002, 1-2, 143-145.

**(PDF) Genetic**

**variability,**

**heritability and**

**genetic ...**

The wild relatives of

tomato represent a rich

source of phenotypic

variation that can be

used to improve

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### Variation In Solanum

cultivated tomato varieties. To exploit this genetic potential it is necessary, not only to identify the genes responsible for valuable fruit traits, but also to obtain precise molecular information about their mode of regulation.

### **Regulatory variation in tomato: harnessing genetic**

...

To identify the genetic

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## Variation In Solanum

factors underlying variation in primary metabolism in potato (*Solanum tuberosum*), we have profiled primary metabolite content in a diploid potato mapping population, derived from crosses between *S. tuberosum* and wild relatives, using gas chromatography-time of flight-mass spectrometry.

**Untargeted**

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**metabolic  
quantitative trait  
loci analyses ...**

In this study, we screened DNA markers that are specific to tomato (*Solanum lycopersicum* L.) and *Solanum lycopersicoides* Dunal for their interspecific transferability to *S. elaeagnifolium* and determined the applicability of the transferable DNA markers in assessing

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**Solanum**  
the extent of genetic variation in populations from Lubbock, Littlefield, and Blackwell, TX.

**Cross-species transferability of Solanum spp. DNA markers ...**

The objective of this work was to genetically analyze somaclonal variants and gamma induced mutants of potato (*Solanum tuberosum* L.) cv.



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Somaclonal  
Diamant using RAPD-PCR technique. In the present work, callus was induced from nodes, internodes and leaf explants in MS medium supplemented with NAA (1.0 mg/l) and BAP (0.5 mg/l) and plants were regenerated from 14-20 weeks old calli.

**[PDF] GENETIC  
ANALYSIS OF  
SOMACLONAL  
VARIANTS AND**

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**INDUCED ...**

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.

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**Population Genetic  
Study of Eggplants ( *Solanum* ) Species ...**

We generated an F<sub>2</sub> 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. We found that

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*Solanum*  
F2 individuals vary in the rate at which UI rejection occurs.

### **Intraspecific Genetic Variation Underlying Postmating ...**

Eight Bulgarian accessions were studied: variety Plovdivska karotina of a *Solanum chillense* background, variety IZK Alya (cherry type) of a *Solanum pimpinellifolium* background and six

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tomato breeding lines  
(L21 $\beta$ , L53 $\beta$ , L1140,  
L1116, L975, L984)  
from the Maritza  
Institute of Vegetable  
Crops (Plovdiv,  
Bulgaria). Each  
genotype was  
presented by seven  
individual plants.

**Assessment of  
genetic variation in  
Bulgarian tomato ...**

Estimation of genetic  
diversity and relative  
relatedness in breeding

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materials is critical for improving breeding efficiency. To compare the ability of single nucleotide polymorphism (SNP) and insertion-deletion (InDel) markers for characterizing cultivated tomato germplasm, 120 SNPs and 109 InDels were used to genotype 191 tomato inbred lines representing cherry tomato, traditional varieties

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## **Comparative Analyses of Genetic Variation in a Tomato ...**

Considering that genetic variation between the tomato reference genome *S. lycopersicum* and *S. pimpinellifolium* is larger than genetic variation within *S. lycopersicum*, mapping parameters were set as 0.5 for the length fraction and 0.9 for the

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Similarity fraction. The reads of the same individual in different lanes were merged.

## **Assessment of Genetic Differentiation and Linkage ...**

Using a set of near-isogenic lines (NILs) representing the wild species *Solanum pennellii* (formerly *Lycopersicon pennellii*) in the genetic background of the



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Solanum  
cultivated tomato *S. lycopersicum* (formerly *L. esculentum*), we found that hybrid pollen and seed infertility are each based on a modest number of loci, male (pollen) and other (seed) incompatibility factors are roughly comparable in number, and seed-infertility QTL act additively or recessively.

**Comparative**

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**Genetics of Hybrid**

**Incompatibility:**

**Sterility ...**

Genetic Diversity of

Eggplant (*Solanum*

*Melongena*)

Germplasm From

Turkey Assessed by

SSR and RAPD Markers

- PubMed Eggplant is a

major crop in Turkey,

which produces more

of this crop than all of

Europe; consequently,

germplasm resources

are of concern for the

country.

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