a survey of dna polymorphism within the genus capsicum and

#dna polymorphism #capsicum genus #pepper genetic diversity #plant genetic variation #crop dna research

This comprehensive survey investigates the intricate patterns of DNA polymorphism found within the diverse Capsicum genus. By analyzing genetic variations, the study provides crucial insights into the evolutionary relationships and genetic diversity of peppers, informing future breeding programs and conservation efforts.

A survey of DNA polymorphism within the genus Capsicum ...

by JP Prince · 1995 · Cited by 195 — Abstract. Interspecific genetic variation was examined in the genus Capsicum based on shared restriction fragments in Southern analyses. Four distinct clusters were delineated among 21 accessions of cultivated and wild pepper (C. annuum, C. baccatum, C. chacoense, C. chinense, and C. frutescens).

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Polymorphism - National Human Genome Research Institute

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DNA polymorphism is the basis of (A) Genetic mapping (B) Mutation (C ...

In our study, genetic relationships of twenty-two paprika species were examined to estimate their genetic variations/similarities and to detect the polymorphism present within and among the paprika species by using RAPD-PCR markers. The results revealed that the maximum similarities among the 16 ICBD lines were 100%.

[Solved] DNA polymorphism forms the basis of: - Testbook

by S Lanteri · 2003 · Cited by 101 — We used random amplified polymorphic DNA (RAPD) and amplified fragment length polymorphism (AFLP) markers to assess genetic diversity within and between five populations of a landrace of Capsicum annuum L., grown in a limited area in north-west Italy and locally known as 'Cuneo' pepper.

What are single nucleotide polymorphisms (SNPs)?

5 Apr 2024 — In our study, genetic relationships of twenty-two paprika species were examined to estimate their genetic variations/similarities and to detect the polymorphism present within and among the paprika species by using RAPD-PCR markers. The results revealed that the maximum similarities among the 16 ...

Detecting DNA Polymorphisms

by M Moses · 2012 · Cited by 50 — In this study, molecular markers were used to assess the genetic diversity within populations of C. chinense and to understand the genetic structure of populations. The presence of three phylogenetic clusters in the species indicates the potential of investigating interpopulation heterosis approaches in ...

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by TA Hill · 2013 · Cited by 178 — Microarray based polymorphism discovery was an attractive alternative even though a small region surrounding a polymorphism rather than the precise nucleotide position of a polymorphism is identified. ... A survey of DNA polymorphism within the genus capsicum and the fingerprinting of pepper cultivars.

A Survey Of Dna Polymorphism Within The Genus ...

by ST Thul · 2006 · Cited by 13 — (1995) A survey of DNA polymorphism within the genus Capsicum and the fingerprinting of pepper cultivars. Genome, 38, 224-231. [8]. Pickersgill B. (1988) The genus Capsicum: a multidisciplinary approach to the taxonomy of cultivated and wild plants. Biologisches Zentralblatt Band, 107, 381-389. [9]. Jensen RJ, McLeod ...

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RAPD and AFLP assessment of genetic variation in a ...

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