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Genetic Characterization Of Guava Psidium

Abstract. Genetic diversity of 35 *Psidium guajava* L. accessions and three related species (*P. guineense* Sw., *P. sartorianum* (O. Berg) Nied. and *P. friedrichsthalianum* (O. Berg) Nied.) maintained at the U.S. Department of Agriculture (USDA), National Plants Germplasm System, Hilo, HI, was characterized using 20 simple sequence repeat (SSR) markers. Diversity analysis detected a total of 178 alleles ranging from 4 to 16 alleles per locus.

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Genetic characterization of guava (Psidium guajava L ...

Genetic diversity of 35 Psidium guajava L. accessions and three related species (P. guineense Sw., P. sartorianum (O. Berg) Nied. and P. friedrichsthalianum (O. Berg) Nied.) maintained at the U.S....

(PDF) Genetic characterization of guava (Psidium guajava L ...

In this document, research on genetic resources and breeding in guava during the last 50 years in Cuba is included. The morph-agronomic characterization of 395 accessions and a catalogue with 18 of them, together with a new illustrated descriptor with more than 70 descriptors are offered. The discrimination power and information on morph-agronomic characters and AFLP and SSR as dominant and co ...

[PDF] Genetic resources and breeding of guava (Psidium

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genetic resources of guava (*psidium guajava*) in cuba:germplasm characterization and breeding. *acta hortic.* 849, 341-348 *Acta Hortic.* 849, 341-348 DOI: 10.17660/ActaHortic.2010.849.40

GENETIC RESOURCES OF GUAVA (PSIDIUM GUAJAVA) IN CUBA ...

Guava (*Psidium guajava* L.) is an open-pollinated crop having 25-40% dissimilarity index which promotes heterozygosity and adds new cultivars. Morpho-genetic characterization of 37 guava accessions...

Collection and characterization of Mexican guava (Psidium ...

Guava (*Psidium guajava*) and araçá (*Psidium* spp.) plants are important for the Brazilian economy, as their fruit is both

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accepted by the consumers, and makes a beneficial contribution to the human diet thanks to their content in vitamin C, carotenoids and phenolic compounds. Here, we report the content in the fruit of free ascorbic acid, lycopene, β -carotene, flavonoids and phenolic compounds ...

Antioxidant content in guava (Psidium guajava) and araçá ...

Guava (*Psidium guajava* L.), one of the most widely grown plants in the tropics, is very susceptible to disease which can decrease its marketability. Leaf and fruit spot diseases commonly occur on guava grown in Hawaii. A disease survey was conducted on more than 50 accessions grown at the USDA/ARS Tropical Plant Genetic Resource

Guava Diseases in Hawaii and the Characterization of ...

Guava (*Psidium guajava* L.), a diploid with $2n = 22$, belongs to

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the family Myrtaceae (Nakasone and Paull, 1998) and is native to the tropical America. In India it is a major fruit crop with an estimated area of 2,68,220 ha and production of 36,67,890 MT . Commonly known as Apple of Tropics or Poor Man's apple, it is a rich source of nutrients, vitamins, and minerals and is valued for its edaphoclimatic adaptability, hardness to biotic and abiotic stresses, prolific bearing, and medicinal ...

Development of SRAP and SSR marker-based genetic linkage ...

Psidium cattleianum f. *lucidum* O. Deg., known as yellow strawberry guava. *Psidium friedrichsthalianum* (O. Berg) Nied, known as Costa Rican guava. *Psidium guajava* L., known as guava. *Eugenia stipitata* McVaugh, known as araz. *Acca sellowiana*, known as feijoa . *Syzygium aqueum*. *Syzygium samarangense*, known as Java apple . Guava fruit

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Guava Collection : USDA ARS

Abstract. A (GA) n and (GT) n microsatellite-enriched library was constructed and 23 nuclear simple sequence repeat (SSR) loci were characterized in the guava species (*Psidium guajava* L.). All SSR loci were found to be polymorphic after screening for diversity in different cultivars, and across-taxa amplification tests showed the potential transferability of most SSR markers in three other *Psidium* species.

Isolation and characterization of microsatellite loci from

...

Overall, the results from the morphological, agronomic and molecular characterization reveal that the current guava germplasm collection resides on a narrow genetic basis. [Journal of Genetics and Breeding (Italy)] 2006/IT/IT2006_0.rdf. A total of 49 accessions assembled in the Cuban guava germplasm collection at Alquizar (Havana province) were characterized by

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phenotypic descriptors and AFLP DNA marker analysis.

Morphological, agronomic and molecular characterization of ...

Guava (*Psidium guajava*) fruit are valued for their rich, tropical aroma, but fruit quality data are lacking for many important cultivars. Guava is native to warm-climate areas of the Americas and is grown commercially in southern Florida, USA. Varieties relevant to south Florida display a high level of morphological diversity, including fruit color and shape.

Assessment of fruit aroma for twenty-seven guava (*Psidium* ...

Genetic characterization of guava (*Psidium guajava* L.) germplasm in the United States using microsatellite markers. *Genetic Resources and Crop Evolution*, 61 , 829–839. CrossRef
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Genetic Resources of Guava: Importance, Uses and Prospects ...

Abstract- Guava (*Psidium guajava*L.) is an open-pollinated crop having 25-40% dissimilarity index which promotes heterozygosity and adds new cultivars. Morpho-genetic characterization of 37 guava accessions was carried out for genetic variability and structure of guava germplasm located in Punjab province, Pakistan.

Morpho-genetic profiling and phylogenetic relationship of ...

The present investigation was conducted to estimate genetic parameters, correlations and path coefficients from different traits of nine genotypes in guava. The genotypes exhibited a wide range of variability for all the characters studied. The high estimates of GCV and PCV were recorded for fruit yield per plant,

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fruit weight, plant height, petiole size, acidity and number of seeds per fruit ...

Genetic parameters, character association and path ...

Fifty morphological characteristics, fruit production over 3 years (from 1999 to 2002) and the amplified fragment length polymorphism (AFLP) technique were used to analyse a set of 48 guava (*Psidium guajava* L.) accessions cultivated in Mexico, in order to characterize their genetic relationships.

Morphological and genetic diversity of Mexican guava ...

in the Espírito Santo State in Brazil. In the genus *Psidium* of this family, guava (*Psidium guajava* L.) is the most economically important species. Guava is widely cultivated in tropical and subtropical countries; however, the widespread cultivation of only a small number of guava tree cultivars may cause the genetic

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Multivariate analysis in a genetic divergence study of ...

Free Online Library: Morpho-genetic profiling and phylogenetic relationship of guava (*Psidium guajava* L.) as genetic resources in Pakistan/Caracterizacao morfo-genetica e relacao filogenetica de goiaba (*Psidium guajava* L.) como recursos geneticos no Paquistao. by "Revista Brasileira de Fruticultura"; Agricultural industry Investigacion agricola Phylogeny Analysis Genetic aspects Polinizacion ...

Morpho-genetic profiling and phylogenetic relationship of

...

However, few data about the nuclear DNA content, chromosome characterization (morphometry and class) and molecular markers have been reported for this genus. In this context, the present study aims to shed light on the genome of *Psidium guineense* Swartz, 1788, comparing it with

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PsidiumguajavaLinnaeus, 1753.

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