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Molecular Markers In Plant Conservation

The aim of this study was to use microsatellite markers (SSR) for the characterization of the *Passiflora* species and to verify the effect of random selection of individuals in parameters that characterize the genetic variability of germplasm for conservation purposes. Four species, *Passiflora edulis* f. *flavicarpa* Degener, *P. cincinnata* Mast., *P. alata* Curtis and *P. setacea* D.C., were evaluated.

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Molecular Markers In Plant Conservation Genetics

Molecular Markers In Plant Conservation Characterization of plant with the use of molecular markers is an ideal way to conserve plant genetic resources. Molecular characterization helps to determine the breeding behaviour of species, individual reproductive success and the existence of gene flow, the movement of alleles within and between ...

Germplasm conservation, molecular identity and ...

DNA markers are useful in both basic (e.g. phylogenetic analysis and search for useful genes) and applied research (e.g. marker assisted selection, paternity testing and food traceability). This section focuses mainly on their application in characterization of ANGR diversity, and in the Section C Molecular markers - a tool for

Conservation genetics of forest tree species takes advantage of the availability of molecular markers. Depending on the processes that need to be analysed, molecular markers may provide extremely useful information to monitor processes related to adaptation and migration. Markers must be carefully selected depending on the specific question.

Molecular markers that can be determined without regard to the phenotype permit an unbiased comparison of the adaptation of organisms to their environment, its genetic basis and its effect on evolution. Several marker types used in ecological research and their uses and limitations are briefly discussed.

ABSTRACT. With the development of molecular marker technology in the 1980s, the fate of plant breeding has changed. Different types of molecular markers have been developed and advancement in sequencing technologies has geared crop improvement.

Molecular Markers In Plant Conservation

Hahn W.J., Grifo F.T. (1996) Molecular Markers in Plant Conservation Genetics. In: Sobral B.W.S. (eds) The Impact of Plant Molecular Genetics. Birkhäuser Boston

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Rossetto. National Herbarium of NSW, Royal Botanic Gardens and Domain Trust, Sydney, Australia. Search for more papers by this author. Paul D. Rymer. Hawkesbury Institute for the Environment, University of Western Sydney, Richmond, Australia.

Applications of Molecular Markers in Plant Conservation ...

The role molecular markers play in plant improvement has grown significantly as DNA sequencing and high-throughput technologies have matured. This timely review of technologies and techniques will provide readers with a useful resource on the latest molecular technologies.

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Use of Molecular Markers in the Conservation Management of ...

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DNA molecular markers in plant breeding: current status

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Molecular markers - a tool for exploring genetic diversity

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Molecular Markers In Plant Conservation Genetics

Abstract Plant conservation geneticists aim to use molecular markers to assess the short- and long-term viability of populations and species with small effective population sizes, found in altered landscapes, and/or experiencing genetic exchange from divergent gene pools.

Applications of molecular markers in plant conservation ...

Molecular markers are powerful tools for species conservation because they can be used to estimate levels of genetic variation among and within populations (Frankham et al., 2002). These methods allow the evaluation of the impact of genetic drift, levels of inbreeding and amount of gene flow among populations (Ouborg et al., 2010).

Molecular markers and conservation of plant species in the ...

Review on Use of Molecular Markers for Characterizing and Conserving of Plant 28 2.1.1. Classical markers 2.1.1.1 Morphological markers Use of markers as an assisting tool to select the plants with desired traits had started in breeding long time ago. During the early history of plant breeding, the markers used mainly included visible

Review on Use of Molecular Markers for Characterizing and ...

The use of molecular markers to enhance plant breeding efforts is being widely studied. A major area of research is the use of molecular markers to identify and manipulate chromosome segments QTL (quantitative trait locus or loci depending on context) controlling quantitative traits.

Molecular Markers in Plant Improvement: Manipulation of ...

Several molecular markers, especially SSR markers, have been reported in persimmon (Guan et al., 2019b; Liang et al., 2015; Naval et al., 2010; Wang et al., 2018). We chose to investigate 495 germplasms of *D. kaki* conserved in the NFGP that tend to be of continuous agronomic interest to broaden our understanding of genetic and morphological relationships in persimmon, as an important cash crop.

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Molecular markers for conservation genetic resources of ...

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