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Genotyping of fig (Ficus carica L) via RAPD markers

Auteur(s) / Author(s)
DE MASI Luigi (1) ; CASTALDO Domenico (1) ; GALANO Giovanni (2) ; MINASI Paola (1) ; LARATTA Bruna (1) ;

Affiliation(s) du ou des auteurs / Author(s) Affiliation(s)
(1) Stazione Sperimentale per le Industrie delle Essenze e dei Derivati Agrumari, Via Gen Tommasini, 89127 Reggio Calabria, ITALIE
(2) Società delle Scienze, delle Comunicazioni e delle Arti Mediterranee, Viale délia Costituzione, Isola B3, Centro Direzionale-Napoli, ITALIE

Résumé / Abstract
The genetic diversity among 15 fig accessions (Ficus carica L), belonging to 9 renowned cultivars of the Calabrian fig collection, and 24 unidentified genotypes of figs also located in the Calabrian region of Southern Italy, was investigated by random amplified polymorphic DNA (RAPD) analysis. The genetic similarity values were calculated for the 39 samples, and a dendrogram was elaborated by cluster analysis according to the UPGMA algorithm. The generated DNA fragments grouped the samples into two main clusters of RAPD profiles. Most of the 24 unknown samples, coming from the Luzzi area, formed a unique cluster with high degree of genetic similarity. This indicates that it is possible to distinguish, at DNA level, the fig trees with an already well-known potential to produce figs suitable for the drying process and possibly to specify cultivars with suitable features for industrial transformation.

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France
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Fax : +33 (0) 3.83.50.46.66

Courriel : **infoclient@inist.fr**