

#81-21-IB

Technology

Plant Diagnosis

Pecan Varietals Identification and Molecular Traceability System



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Biotechnology

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Genomics Applies to Forest Trees and Fruit Trees Species Breeding

#cultivar | #pecan | # traceability | #markers | #molecular

<https://www.argentina.gob.ar/inta/tecnologias/panel-de-marcadores-moleculares-pecanbiocoding-para-trazabilidad-y-control-de>

Multiplication by grafts generates genetically identical plants and requires traceability. The visual characteristics of cultivars that enable their differentiation are expressed at a later stage in the crop. This system allows early identification of the cultivar and its traceability to plantation.

Microsatellite marker panel to identify pecan cultivars.

This tool is applicable in nurseries that multiply pecan cultivars and farmers who plant cultivars.

Early identification.

Developed from easily obtained plant material.

Accurate and unequivocal identification.

Fast compared with the useful phenotype assessment.

Some molecular markers still need to be defined and adjusted, that do not show interference in varietal differentiation. Depends on the certification of the reference material introduced by INTA.