

MUCHAMIEL AND DE LA PERA TOMATO BREEDING LINES WITH GENETIC RESISTANCE TO VIRUSES

DESCRIPTION OF THE INVENTION

Within the Program for Improving Traditional tomato varieties being developed at the Polytechnic School of Orihuela of the University Miguel Hernandez, they were obtained several breeding lines of Muchamiel and De La Pera tomato with genetic resistance to some of the most important viral disease affecting tomato in southeastern Spain: tomato Mosaic Virus (ToMV) Virus tomato yellow leaf curl (TYLCV) and tomato spotted wilt virus (TSWV). The new lines obtained have an acceptable production and its fruits have a good quality.

BUSINESS FIELDS OF APPLICATION

These lines are especially interesting for tomato farmers geographic areas containing one or more of the viruses mentioned above.

Also, it is of great interest for organic farming, where control of the viral vectors is more difficult.

TECHNICAL AND BUSINESS ADVANTAGES

The introduction of virus resistance genes is the most effective way to fight them, as there are no healing methods in plants. The use of resistant varieties reduces the number of pesticide treatments to be applied to control insect vectors of the virus.

These lines can be used in breeding programs to facilitate the introduction of resistance genes in other traditional varieties.

They can also serve to develop hybrids F1, which will have the resistance in heterocigosis.

DEVELOPMENT STAGE OF THE TECHNOLOGY

The technology is validated and proven stability

INDUSTRIAL PROPERTY RIGHTS

It is protected as Commercial Plant Variety in Spain

TYPE OF COLLABORATION SEEKED

License Agreement with companies willing to manufacture and commercialize the technology.

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CONTACT DETAILS

Begoña García Jaén
b.garcia@umh.es
Servicio de Gestión de la Investigación - OTRI
UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE
Avda. de la Universidad s/n
Edif. Rectorado y Consejo Social
03202 Elche, Alicante
Telf.: 966658841