

MORE FERTILE AND STRESS CONDITIONS RESISTANT PLANTS

DISCLOSURE OF INVENTION

CSIC and UPV have developed a new method for generating plants that are characterized by being more fertile than wild plants. In addition, these plants are more tolerant to conditions of water and heat stress, are less affected by these stress conditions. They are plants more fertile, produce more and larger fruits, such that if we apply the invention species of agronomic interest, increase crop yield. Moreover, this new technology is applicable to a wide variety of plant species with high commercial interest.

INDUSTRIAL APPLICATION SECTORS

The invention is applicable in the agricultural sector. In any plant species can be applied to the invention. Not only includes the plant species in gastronomic interest, but can also be applied in areas where plant species are used for the produce raw materials, required for the manufacture of other compounds, such as the case of the use of plants to obtain of compounds of interest to the pharmaceutical industry.

In those cases where the plant species is used to obtain compounds of pharmacological interest, the invention also applies to the pharmaceutical sector. This would also improve the yield, since the plants to be fertile and grow better, produce higher amount of the compound of interest to the pharmaceutical industry.

TECHNICAL ADVANTAGES AND BUSINESS PROFITS

This new method allows plants with higher fertility, having a higher number of fruits per plant. Therefore, better performance is obtained by cultivated wild plants, thus providing an economic gain which it would in the case of a normal crop surface.

Another aspect is a technical advantage of the invention is that the plants where the invention has been applied have a higher resistance to water and temperature stress conditions. Under current conditions where the climate is more variable, the difference in temperature can make a considerable loss in terms of crop yields. With the invention developed plants are less sensitive to these conditions and the crop is more constant, not be affected by environmental conditions.

DEVELOPMENT STATUS OF TECHNOLOGY

The above-described technology is developed experimentally. That several studies that have been applied to species of agricultural interest, as is in tomato plants. For each case there should be a specific project setup.

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INDUSTRIAL PROPERTY RIGHTS

The technology for the production of re fertile and stress conditions resistant plants, is protected by patent. This patent is co-owned CSIC-UPV.

TYPES OF COLLABORATION

Seeking interested partners to complete the development of technology and patent licensing to companies for industrial exploitation.

RELATED IMAGES

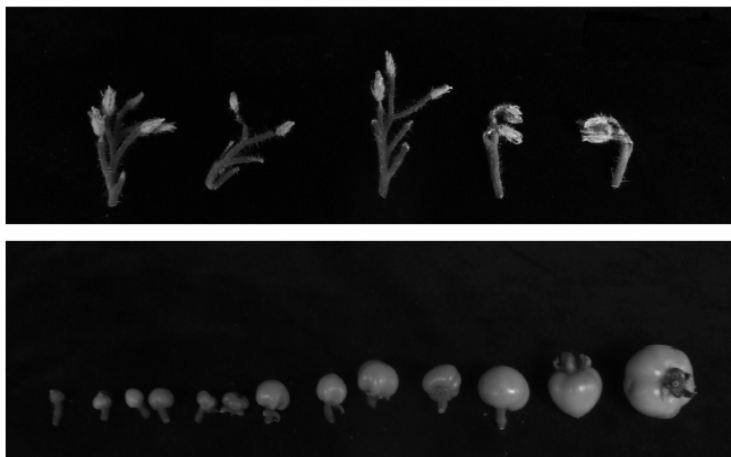


Image 1: Fruit production in normal tomato plants (above) with respect to which has been applied to the invention (below) under conditions of heat and water stress. Plants subject of the invention have greater fruit production.

CONTACT

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