

DEVELOPMENT OF HIGH-EFFICIENCY PRODUCTS FOR THE CONTROL OF PATHOGENIC MICROORGANISMS OF INTEREST TO THE AGRIFOOD SECTOR AND THE PHARMACEUTICAL INDUSTRY BASED ON BIOMOLECULES FROM PLANTS

DESCRIPTION OF THE TECHNOLOGY

Researchers at the Universitat Jaume I in Castelló have identified, extracted and developed biomolecules originally from plants, which have been tested against plant pathogens of clinical interest, with the aim of obtaining high quality commercial products that can be applied in the agricultural and pharmaceutical sectors.

In the agronomic sector, the aim is to obtain products based on biomolecules, using techniques that are ecocompatible with agricultural production, for use in the control of plant pathogens by inducing plant defences which could act as a vaccine against different diseases. This is currently one of the strategic lines of action that is of great interest both to the business world and to public institutions.

The approaches used to date in disease control have been based on the use of chemicals that have harmful effects on the environment, on animals or insects and even on human health. Our invention, however, is based on the use of new methods of pathogen control, by employing natural compounds obtained from plants that act directly on the pathogen and enhance the innate resistance of the plants.

As regards the pharmaceutical sector, one of the main issues at present is related to the appearance of resistance to antibiotics by pathogens of clinical interest. The control of diseases caused by these microorganisms is a major challenge for health administrations and pharmaceutical industries. Our invention could mitigate the problems caused by pathogens that are resistant to multiple antibiotics.

SECTORS FOR COMMERCIAL APPLICATION

Companies that develop Green Code-compliant pesticides and companies in the pharmaceutical sector that invest in R&D&I as a strategic line of action.

TECHNICAL ADVANTAGES AND COMMERCIAL BENEFITS

Advantages:

- Natural molecules from plants, which are applied at very low concentrations and therefore do not pose a risk to health and the environment.
- Wide range of action against pathogens, in both the agronomic and the pharmaceutical fields.
- High efficacy and easy to apply, in both the agronomic and the pharmaceutical fields

Benefits:

- Differentiation from the other companies that do not have products with these characteristics.

DEVELOPMENT OF HIGH-EFFICIENCY PRODUCTS FOR THE CONTROL OF PATHOGENIC MICROORGANISMS OF INTEREST TO THE AGRIFOOD SECTOR AND THE PHARMACEUTICAL INDUSTRY BASED ON BIOMOLECULES FROM PLANTS

STAGE OF DEVELOPMENT OF THE TECHNOLOGY

Validated at the experimental level in the laboratory and in a real setting, in the case of the agronomic sector.

Validated at the experimental level in the laboratory, in the case of the pharmaceutical sector.

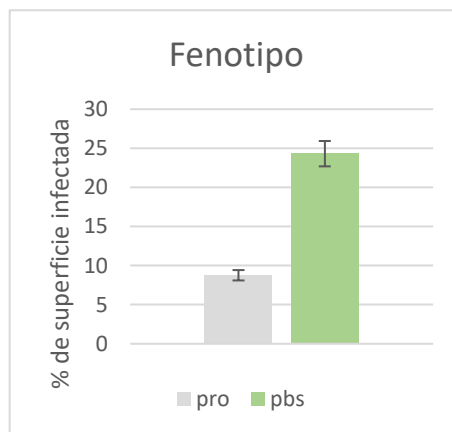
INDUSTRIAL AND INTELLECTUAL PROPERTY RIGHTS

This invention is protected by means of an application for a Spanish patent with reference number P202030476 and filing date 22/05/2020.

COLLABORATION SOUGHT

Development of the technology and its adaptation to particular applications through specific agreements and subsequent licensing agreements with companies committed to improving the health and well-being of people and plants.

RELATED IMAGES



CONTACT DETAILS

César Viúdez
Office for Cooperation in Research and Technological Development
Universitat Jaume I
Tel: +34 964387669
e-mail: patents@uji.es
Web: <http://patents.uji.es>