



Design and production of aimed consortiums of beneficial microorganisms for intensive agriculture

CALL:

CDTI Proyectos Estratégicos



BUDGET: 1.377.328,00€

DATES:

- Start: Abril 2017
- End: Abril 2023

OBJECTIVES:

The MICMIX project deals with a new use of beneficial microorganisms for crops.

Within the framework of the project, it is proposed to design one or several directed microbiological consortiums. These consortia, once inoculated in the soils, will stimulate plant development and production, through a colonization of the soils and roots of the plants that normally occurs naturally in normal agricultural conditions, but not in a scenario of intensive agriculture. In this case it is necessary to incorporate them voluntarily thanks to the development of these new products.

SPECIFIC OBJECTIVES:

KIMITEC will develop tailor-made bacterial formulations for each target crop to fully meet the specific nutritional needs of plants for a successful and high-yield crop in the agricultural sector.

The main technical objectives are:

1. Selection of highly versatile microorganisms with biostimulant activity.
2. Isolation of microorganisms from the rhizosphere and endophytes of plants, selected based on their special vigor of the target crops.
3. Interaction/compatibility study of the selected microorganisms
4. Determination of the biostimulant or induction properties of the plant's defenses against certain pathogens.
5. Validation in field tests of the results obtained in the laboratory. We will correctly identify the appropriate dosis of each of the microorganisms in the target cultures of interest.