

PHERA

Pheromones for row crop application

Agricultural production needs to increase in order to feed the exponentially growing population. Due to the global trade and rising temperatures, pests are increasing and spreading significantly ent-tailing a threat to the yields.

The use of pesticides is not sustainable due to the detrimental environment and health implications involved. Pheromones are therefore a good alternative to manage pests by an environmentally friendly process. The release of pheromones in the field prevents males from locating females and consequently the matings and future generations.

The traditional chemical synthesis of some pheromones implies a costly procedure. The Project PHERA aims to solve this challenge by means of a scaled up cost efficient production by yeast fermentation using renewable raw materials, obtaining thus an affordable, clean and efficient solution for the growers. This will help to increase food production reducing long-term impacts on the environment and public health.

How does it work?

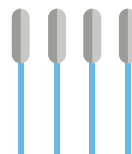
1 Use of renewable raw material



2 Pheromone synthesis by yeast-based fermentation process



3 Formulation of the pheromone for field application



4 Attraction of the male avoiding the mating with the female



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