

SC2 and KET-B Brokerage Event

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Sustainable Food Security

Center for Applied Plant Bioprospecting: Cannabinoid Research and Possibilities for Application in Medicine, Cosmetics and Nutraceuticals

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www.ncp-biohorizon.net

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 #BioBrokerage

Center for Applied Plant Bioprospecting

Main objectives:

- create a Center for Applied Bioprocessing of Plants
- establish a long-term intersectoral cooperation between analytical chemists, botanists, microbiologists, biotechnologists, chemical engineers, doctors, pharmacists and the commercial sphere
- create a background for advanced research of bioactive substances contained in plants

Expected result of collaboration: extensive and universally useful platform focused primarily on cannabinoids as the group of substances with a high potential for use in human and veterinary medicine, cosmetics and nutrition.

Project Consortium: University of Chemistry and Technology Prague, Botanical Institute Academy of Science CZ, Rabbit, EcoFuel, ICCI

Bioprospection is a modern tool that enables targeting of new active substances and positive effects on the body.

Current global problems addressed in the project:

- the steeply growing world population
- aging in the European countries
- increased risk of non-traditional diseases,
- increase in civilization diseases
- increased resistance of pathogenic microorganisms to traditional antibiotics
- increased demands on both quality and quantity of food

Bioprospection is an ambitious, broadly multidisciplinary challenge requiring coordinated collaboration of professionals from very diverse disciplines, from analytical chemists to botanists, biologists to doctors. This necessitates both the long-term cooperation of such experts and the creation of a special infrastructure that allows the production or acquisition of biological material, the isolation of bioactive substances from it and the subsequent study of the effects of these substances.

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SME

The Czech Republic