

SC2 and KET-B Brokerage Event

Food Security | Sustainable Agriculture and Forestry | Marine, Maritime
and Inland Water Research | Bioeconomy | KET-Biotechnology |

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Sustainable food security

Research of stress reaction and adaptation of crops in regards to environmental changes


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www.ncp-biohorizon.net

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 #BioBrokerage

Project idea / Company expertise

Company expertise:

- Determination of plant adaptation to environmental factors:
 - testing chemical products and cultivars; physiological and morphological (anatomical) characteristics of plants, gene resources
 - <http://katedry.czu.cz/en/kbfr/home/>; <http://katedry.czu.cz/en/kbfr/equipment/>

Objectives of project proposal:

- Expanding the portfolio of plant species monitored.
- Incorporation of other methods for testing (molecular biology, proteomics, enzyme activity).
- Mobility of partners between the workplace, joint training of PhD students.

Existing partnership/ previous projects: :

- Charles University, Hop Research Institute Saaz, AS CR and SR, INP- ENSAT Toulouse, Ekotechnika
- Cost 828.10 (1997-2002)

Topics:

- Mechanism of adaptation at the cellular, tissue-level plants.
- Study of population biology and stress adaptation mechanisms of plants.
- Use of stress for the production of secondary metabolites.
- Anatomical-morphological and physiological screening methods for selection of tolerant plants

Keywords: abiotic and biotic stress, adaptation, phytopathology, secondary metabolites.

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