

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

Biological treatment to reduce seed contamination and increase crop yields

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www.ncp-biohorizon.net

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#BioBrokerage



We would like to:

- to develop novel solution driven methodologies and handling procedures to reduce both pre- and post-harvest contamination in selected feed and food chains using lactic acid bacteria
- to generate and disseminate information and education strategies to reduce mycotoxin risks at a global level

SFS-04A-2019: Integrated health approaches and alternatives to pesticide use. [A]
Integration of plant protection in a global health approach (RIA)





- Modelling the production of antimicrobial compounds for the detoxification of cereal grains
- Investigation of bacteriocin production by lactic acid bacteria
- Optimization of media and growth conditions for increased bacteriocin production
- Development of the analytical methods for the mycotoxin detection



- WP1: Identification of molecular markers affecting **stress resistance** during seed dormancy and germination.
- WP2: Modelling production of **antimicrobial bioproducts** for detoxification of different grain seeds.
- WP3: Investigation of different **crop production systems** under field and storage conditions using raw material after/without treatment with antimicrobial bioproducts.
- WP4: **Safety and quality criteria** of bio-treated grains and preparation of the documents for the use of novel bioproducts in practice.
- WP5: Dissemination and/or exploitation of project results.



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