

# EVALUATION OF FRUIT GENETIC RESOURCES IN BOSNIA- HERZEGOVINA WITH THE AIM OF SUSTAINABLE, COMMERCIAL UTILIZATION

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# Evaluation of fruit genetic resources in Bosnia-Herzegovina with the aim of sustainable, commercial utilization

- Partners:
  - Bioforsk Ullensvang, Norway
  - Faculty of Agriculture and Food Sciences, University of Sarajevo, Bosnia & Herzegovina
- Objectives:
  - To assess the genetic diversity and genetic relationships of autochthonous cultivars of apple and pear and identify the synonyms and homonyms in order to make the evaluation and conservation process more efficient, as well as to estimate the present genetic diversity.
  - To evaluate important commercial, agronomic traits within the analyzed groups of genotypes and to put the information in a database, which will serve as a source of valuable data for future breeding programs.
  - To evaluate the sensory characteristics and characteristics important for food processing industry of the fruit collected from the analyzed cultivars.
  - To evaluate sensory characteristics and characteristics important for food processing industry of the distillates, juices and jams obtained by processing the autochthonous fruits.
  - To make the data gathered through the above mentioned analyses available to the local food processing industry.

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## **ACADEMIC**

- 4 PhD students are funded by the project
- 5 BSc and 17 MSc thesis defended (additional 6 pending)
- 22 papers published presenting the scientific findings of the project (6 in SCI covered journals)
- 2 new PhD courses developed

## **CAPACITY BUILDING AND STAKEHOLDERS**

- HPLC and GC-FID up and running
- Knowledge transfer through staff and PhD student stays
- Industry successively receiving results through fairs and direct contact!
- A joint project funded by the Norwegian Research Council (two more in application phase)

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