

GERMO-SE: Germplasm of Piedmontese rye landraces



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Rye (*Secale cereale L.*) today has almost disappeared from the Piedmontese mountains, just think that in Italy it is cultivated on no more than 3,340 hectares, for a production of 10,500 tons per year, mainly obtained in marginal and mountainous areas of the South (Istat, 2021).

Goals

- cultivation and multiplication of three traditional ecotypes of rye from the Val di Susa, in order to maintain and enrich the heritage of Piedmontese genetic resources;
- selection and regeneration of seed lots of the three rye ecotypes found;
- dissemination of knowledge on the cultivation and maintenance of local rye varieties;
- participatory selection of genetic resources.

Activities

- Morphological characterization;
- Agronomic characterization;
- Genetic characterization;
- Preparation of descriptive cards of the three genetic resources of Val Susa;
- Realization of bakery products (bread, focaccia, biscuits, ..) with rye flour of the varieties studied.

DURATION OF THE PROJECT: 10 months (from March 2023 to December 2023)

Expected results

Collection of morphological and agronomic data useful for the phenotypic and agronomic description of the three ecotypes
Analysis of the genetic distances between the different accessions of seeds/or between the ecotypes of rye under study
Collection of historical documentation
Homogeneous seed lots of genetic resources

Partner

UNISG, capofila
UNITO – Dipartimento di Scienze della Vita e Biologia dei Sistemi DBIOS (Torino, Italia)
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