



STATUS OF THE NATIONAL COLLECTION OF PLANT GENETIC RESOURCES IN THE EUROPEAN ELECTRONIC CATALOG EURISCO

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Conservation of Agrobiodiversity is a complex interdisciplinary process, which is the object of different National and International initiatives. The European countries unite their efforts in this direction by organizing the European Cooperative Programme for Plant Genetic Resources (ECPGR). One of the priorities of the programme is adapting uniform mechanisms for registration and description of the stored seed samples. EURISCO is an international database containing information about the ex situ PGR collections in Europe.

THE BULGARIAN NATIONAL INVENTORY IS PUBLISHED IN THE EUROPEAN SEARCHING CATALOGUE FOR PLANT GENETIC RESOURCES

WEB INTERFACE



According to EURISCO <http://eurisco.ecpgr.org/> (November, 2018), the database of Bulgarian collection includes passport information about **69,336** accessions. The collection consists of genotypes characterized with diverse geographic origin.

Table 1. Holding institutes of the Bulgarian National Inventory

FAO INSTCODE	HOLDING INSTITUTION	ACCNUMB	BGR ORIGIN
BGR001	Institute for Plant Genetic Resources, Sadovo	64,916	15,990
BGR005	Institute of Rose and Essential-oil Plants, Kazanlak	563	4
BGR029	Dobrudja Agricultural Institute, General Toshevo	3,857	1,829
TOTAL NUMBER		69,336	17,823

With respect to the taxonomic composition, the Bulgarian National Inventory consists of accessions belonging to **532 genera** and **1,927 species**.

- Multi-Crop Passport Descriptors (FAO/Bioversity)
- The seventh-largest National Inventory in Europe
- 3,5 % of the whole European *ex situ* PGR collection
- 27 % local accessions, with local Bulgarian origin

PASSPORT DATA

ECpGR: EURISCO Catalogue

Passport data

National Inventory Code BGR

National Inventory Bulgaria

Holding institute

How to get access to germplasm:

EURISCO does not provide the possibility to order accessions directly. The requests should be addressed to the holding institutions. For addresses and contact details you can check the [ECPGR database](#). The ECPGR Secretariat (secretariat@ecpgr.org) can also be contacted for further information.

Institute Code BGR001 (Contact details on FAO/WHO website)

Institute Name Institute for Plant Genetic Resources "X.Malkov", Sadovo, Plovdiv district, Bulgaria

Accession

Accession Number 1957-TRT-DU-352

Accession Names LOCAL

Crop Names durum wheat

Biological Status Traditional cultivar/landrace

Country Of Origin Bulgaria

MIS Status unknown

AEGIS Status unknown

Taxonomy

Genus Triticum

Species durum

Species Authority Desf.

Acquisition/storage

Acquisition Source Farm or cultivated habitat

Germplasm Storage Long term

Collection

Collecting Institute Code BGR001

Collecting Institute Name Institute for Plant Genetic Resources "X.Malkov"

Collecting Site s. Bialo Poliane, Ivalograd

- Taxonomy description
- Accession
- Country of origin
- Biological status
- Collecting site

According to the sample status, the germplasm divides into various categories:

wild
weedy
traditional cultivar/landrace
breeding/research material
breeders' line
synthetic population
hybrid
genetic stock
advanced cultivar
unknown

Table 2. Species with more than 1,000 accessions

SPECIES	CROP NAME	ACCNUMB	BGR ORIGIN
Triticum aestivum	Common wheat	12,886	2,784
Hordeum vulgare	Barley	6,205	287
Zea mays	Maize	4,770	1,892
Phaseolus vulgaris	Garden bean	3,135	1,345
Avena sativa	Oat	2,452	142
Triticum durum	Durum wheat	2,367	1,193
Pisum sativum	Pea	1,628	240
×Triticosecale	Triticale	1,459	533
Linum usitatissimum	Flax	1,442	77
Arachis hypogaea	Peanut	1,325	428
Capsicum annuum	Pepper	1,286	815
Secale cereale	Rye	1,258	808
Lycopersicon esculentum	Tomato	1,168	336
Cucumis sativus	Cucumber	1,011	75

CONCLUSIONS

ECPGR improves the collaboration, focusing on the conservation and sustainable use of plant genetic resources, which are an inexhaustible source of useful features for crop improvement.

ECPGR builds constructive cooperation between different partners (genebanks, research institutes, breeders, NGO, farmers, etc.).

EURISCO electronic portal eliminates the restrictions associated with distant locations of genebanks and as a result, improve coordination between organizations and researchers in the area of plant genetic resources and have an active impact on preservation of Plant Biodiversity.

EURISCO provides free access for potential users to conserved genotypes according to the principles of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA, 2009) and the implementation of the Nagoya Protocol (CBD, 2011) on equitable distribution of their benefits.

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