

Promoting sustainable use of PGR

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Table 5: Promoting sustainable use of PGR

PGR Strategy for Europe Objectives	PGR Strategy for Europe Targets	Responsibility (main level/responsible bodies)	Type of action that ECPGR could undertake	Potential sources of funding to cover the ECPGR action	ExCo proposal for activities to be included in Phase XI workplan
<p>By 2030, assure access to well-documented genetic diversity that is conserved <i>ex situ</i> and, where and as appropriate, <i>in situ</i> in Europe.</p> <p>By 2030, PGR crop portals for European crops have been established and maintained.</p> <p>By 2030, promote and secure commitment for targeted phenotypic and genotypic characterization and evaluation of European PGR and improve digitization, harmonization, availability and exchange of existing and newly-generated PGR characterization and evaluation data for private and public actors.</p> <p>By 2030, achieve a coordinated and systematic use of CWR genetic diversity in research and crop improvement.</p> <p>By 2030, farmers and civil society actors are better enabled to add value to European landraces through participatory breeding methodologies such as evolutionary breeding, thus contributing to crop diversity in landscapes and over time.</p> <p>By 2030, more diversified European</p>	<p>1. Collections of PGR in Europe are increasingly characterized and evaluated under standard conditions, as well as genotyped with suitable sets of molecular markers.</p>	<p>EVA Network</p>	<p>Implement public–private partnerships</p>	<p>ECPGR Budget / EVA budget line or Grant Scheme ECPGR project / External donor/ National funds / Support From EU-project AGENT for the Wheat/Barley EVA Network</p>	<ul style="list-style-type: none"> • P1 - Continuation of existing EVA Networks. • P1 - Support for the creation of other crops' public–private partnerships, including attention to the possibility to adapt the EVA concept to perennial plants such as fruit trees.
<p>By 2030, achieve a coordinated and systematic use of CWR genetic diversity in research and crop improvement.</p>	<p>2. Data and accessions in the public domain, including those with relevant agronomic and quality traits identified at molecular level, are available to users through open centralized information systems, including Crop Portals.</p>	<p>National Research Centres / Genebanks Doc&Info WG / EURISCO</p>	<p>Support of Crop WGs</p>	<p>National funds / EU project or External donor / ECPGR Grant ECPGR-EURISCO budget line</p>	<ul style="list-style-type: none"> • P2 - Based on crop-specific WG proposals, set up Crop Portals to facilitate access to information about PGR targeted to specific user groups. • P2 - Infrastructure for data provisioning of the Crop Portals from EURISCO.
<p>By 2030, farmers and civil society actors are better enabled to add value to European landraces through participatory breeding methodologies such as evolutionary breeding, thus contributing to crop diversity in landscapes and over time.</p> <p>By 2030, more diversified European</p>	<p>3. A wider use of pre-breeding of CWR and participatory breeding on landraces on-farm generates added value to the unique diversity of these materials.</p>	<p>Research consortia/ Genebanks / Stakeholders</p>	<p>Support of Crop WGs</p>	<p>EU-funded project External donor / Grant Scheme National funds</p>	<ul style="list-style-type: none"> • P2 - Promote participatory use and evaluation of PGR, especially climate-resilient and low-input, underutilized crops.

Targets related to Doc&Info WG

2. Data and accessions in the public domain, including those with relevant agronomic and quality traits identified at molecular level, are available to users through open centralized information systems, including Crop Portals.

ExCo proposals for activities

P2 - Infrastructure for data provisioning of the Crop Portals from EURISCO.

P2 - Based on crop-specific WG proposals, set up Crop Portals to facilitate access to information about PGR targeted to specific user groups.

ECPGR Central Crop Databases and other Crop Databases



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A number of ECPGR Central Crop Databases have been established through the initiative of individual institutes and of ECPGR Working Groups. The databases hold passport data and, to varying degrees, characterization and primary evaluation data of the major collections of the respective crops in Europe. The germplasm accessions are maintained in different European institutes for long-term conservation. To request material included in the databases, please refer to the donor institutes which maintain the germplasm accessions.

You can search for **Crop Databases** by **crop group** or use the search window for a more specific search.

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Q GERMPLASM DATABASE

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Name

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Cereals

ECPGR Central Crop Databases and other Crop Databases

Database	Database Manager	Institute	Country	Email
ECPGR <i>Avena</i> Database (EADB)	Christoph Germeier	Julius Kühn-Institute (JKI) - Federal Centre for Cultivated Plants, Institute for Breeding Research on Agricultural Crops	Germany	✉ christoph.germeier@julius-kuehn.de
ECPGR <i>Barley</i> Database				
ECPGR Maize Database	Violeta Andjelkovic	Maize Research Institute Zemun Polje	Serbia	✉ violeta@mrizp.rs
ECPGR <i>Secale</i> Database	Marcin Zaczynski	Plant Breeding and Acclimatization Institute (IHAR), National Research Institute, National Centre for Plant Genetic Resources	Poland	✉ m.zaczynski@ihar.edu.pl
ECPGR Triticale Database	Beate Schierscher	Agroscope, Research Department in Arable Crop Plant Breeding and Genetic Resources	Switzerland	✉ beate.schierscher-viret@agroscope.admin.ch
ECPGR Wheat Database	Ludmila Papoušková	Výzkumný ústav rostlinné výroby, v.v.i. Praha (VÚRV), Crop Research Institute, Gene Bank	Czech Republic	✉ papouskova@vurv.cz
Fonio (<i>Digitaria</i>)				
JIC <i>Triticeae</i> Collection	Steve Reader	John Innes Centre	United Kingdom	✉ JIC.geneticresources@jic.ac.uk
Rice (<i>Oryza</i>)				
Sorghum (<i>Sorghum</i>)				
The BBSRC Small Grain Cereal Collections	Noam Chayut	John Innes Centre	United Kingdom	✉ Noam.Chayut@jic.ac.uk
The Harold and Adele Lieberman Germplasm Bank	Adina Breiman	Institute for Cereals Crop Improvement (ICCI), Tel Aviv University	Israel	✉ cereal@post.tau.ac.il

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The ECPGR European Forage Portal

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The ECPGR European Forage Portal

The ECPGR European Forage Portal is being developed in the frame of the [ECPGR Forages Working Group](#). It provides information about various forage crop collections maintained *ex situ* in Europe. The accessions are conserved in genebanks (115 institutions in 36 countries) throughout Europe, and seed and/or information can be requested directly from the holding institute.

Up-to-date information is provided automatically by the [European Search Catalogue for Plant Genetic Resources](#) (EURISCO).

Accessions	Genera	Species
149536	14	902
Origin countries	Genebanks	
129	115	

Discussion

- How to make data on accessions available to users?
- Centrally via EURISCO only and/or via crop-specific portals (under the control of the Crop WGs)