

ECPGR PHASE XI

L. Maggioni
ECPGR Secretary

*EURO-POTATOES Kick-off meeting,
Warsaw, Poland, 19-20 March 2024*



New Phase XI (2024-2028) launched by the Steering Committee

Report of the Steering Committee

Seventeenth (End-of-Phase) Meeting
29 May–1 June 2022, Oeiras, Portugal

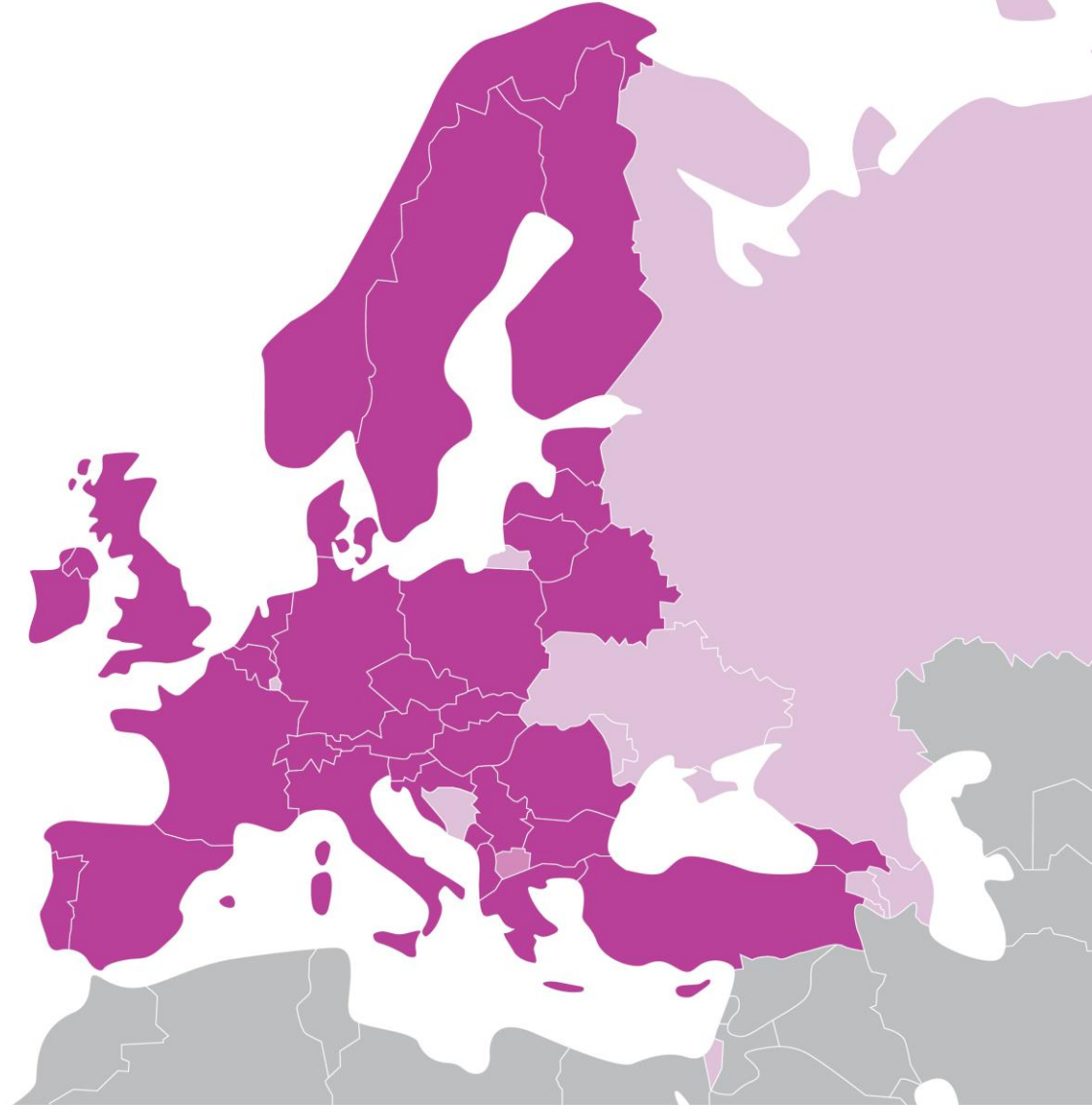


European Cooperative Programme for Plant Genetic Resources

- Founded in 1980
- Long term goal: collaboratively conserve PGRFA, provide access and increase use (ex situ, in situ, on-farm, documentation, use)
- Funded by member countries and governed by a Steering Committee of National Coordinators
- Budget for actions (meetings and activities), documentation (EURISCO), and coordination (Secretariat)

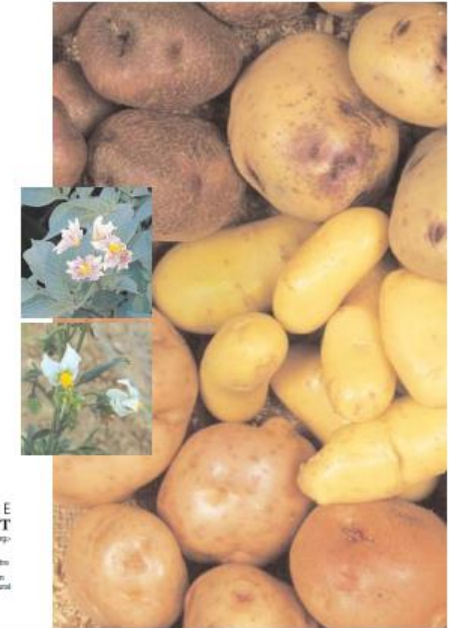


A programme for the wider Europe



ECPGR Structure





Potato Working Group

- Started in the year 2000
- Chairs:
 - Roel Hoekstra (2000-2014)
 - Anca Baciú (2015-2017)
 - Veli-Matti Rokka (2017-)
- Databases:
 - European Cultivated Potato Database (SASA)
 - ECPGR Wild Potato Database (CGN)
- AEGIS project: 'Identification of old potato clones by means of SSR markers'

Ex situ conservation



*A European Genebank
Integrated System*

www.ecpgr.cgiar.org/aegis



AEGIS – A European Genebank Integrated System



- Decentralized European Collection
- Country membership via Memorandum of Understanding
- Availability through SMTA, including non-Annex I material
- Quality System: agreed standards, peer review and capacity building
- Role of Working Groups for the management of decentralized collection

<http://aegis.cgiar.org/>

Documentation

Online catalogue

with information on the European *ex situ* collections: passport, characterization and evaluation data



<http://eurisco.ecpgr.org>



Online catalogue of accessions in European genebanks: EURISCO

- Data gathered from 43 national inventories
- 2M accession data from > 400 institutions throughout Europe
- Largest PGR data provider at the accession level
- Register for the Multilateral System (430k) and AEGIS (70k) European accessions

Published online 3 October 2022

Nucleic Acids Research, 2023, Vol. 51, Database issue **D1465–D1469**
<https://doi.org/10.1093/nar/gkac852>

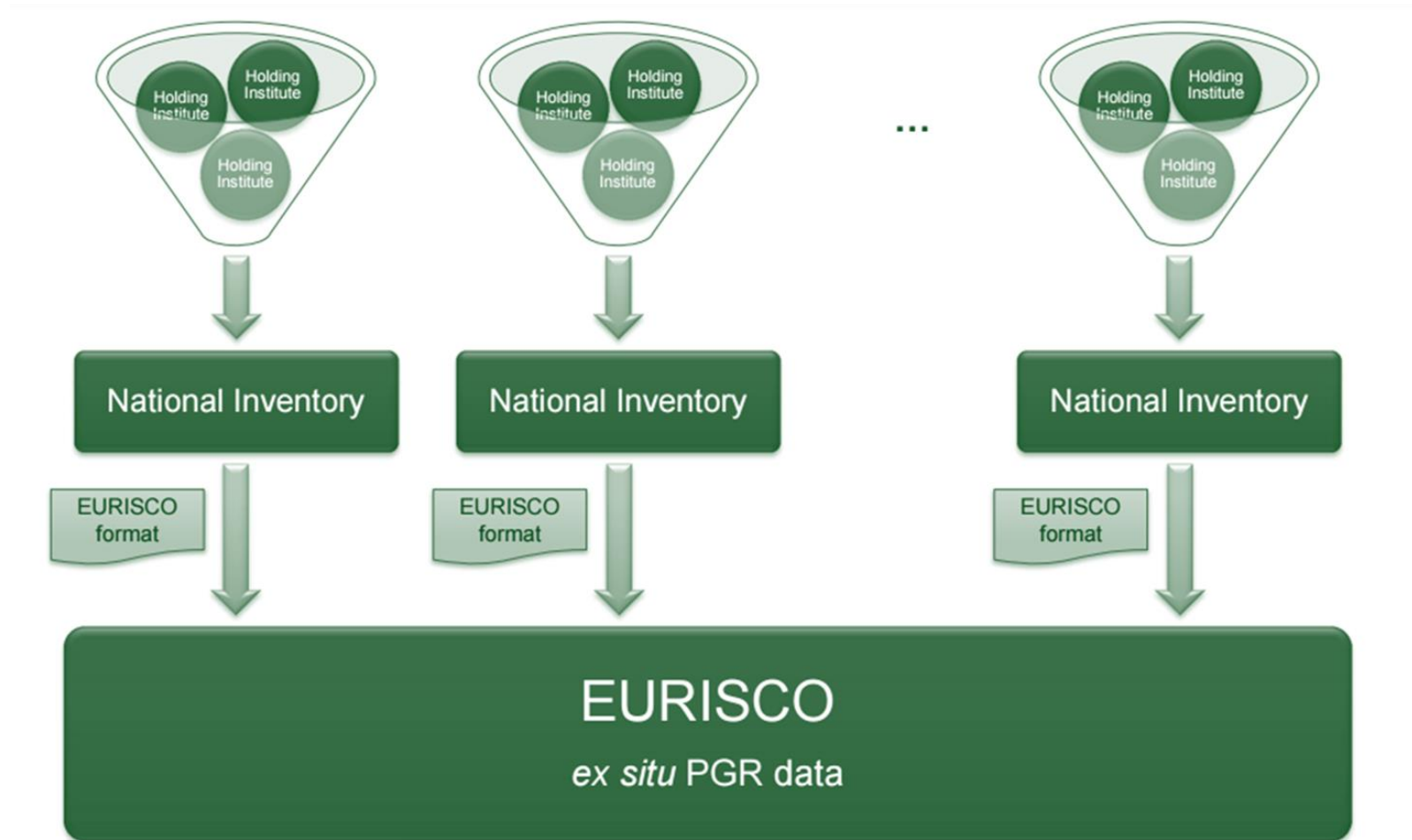
EURISCO update 2023: the European Search Catalogue for Plant Genetic Resources, a pillar for documentation of genebank material

Pragna Kotni¹, Theo van Hintum², Lorenzo Maggioni³, Markus Oppermann¹ and Stephan Weise^{1,*}

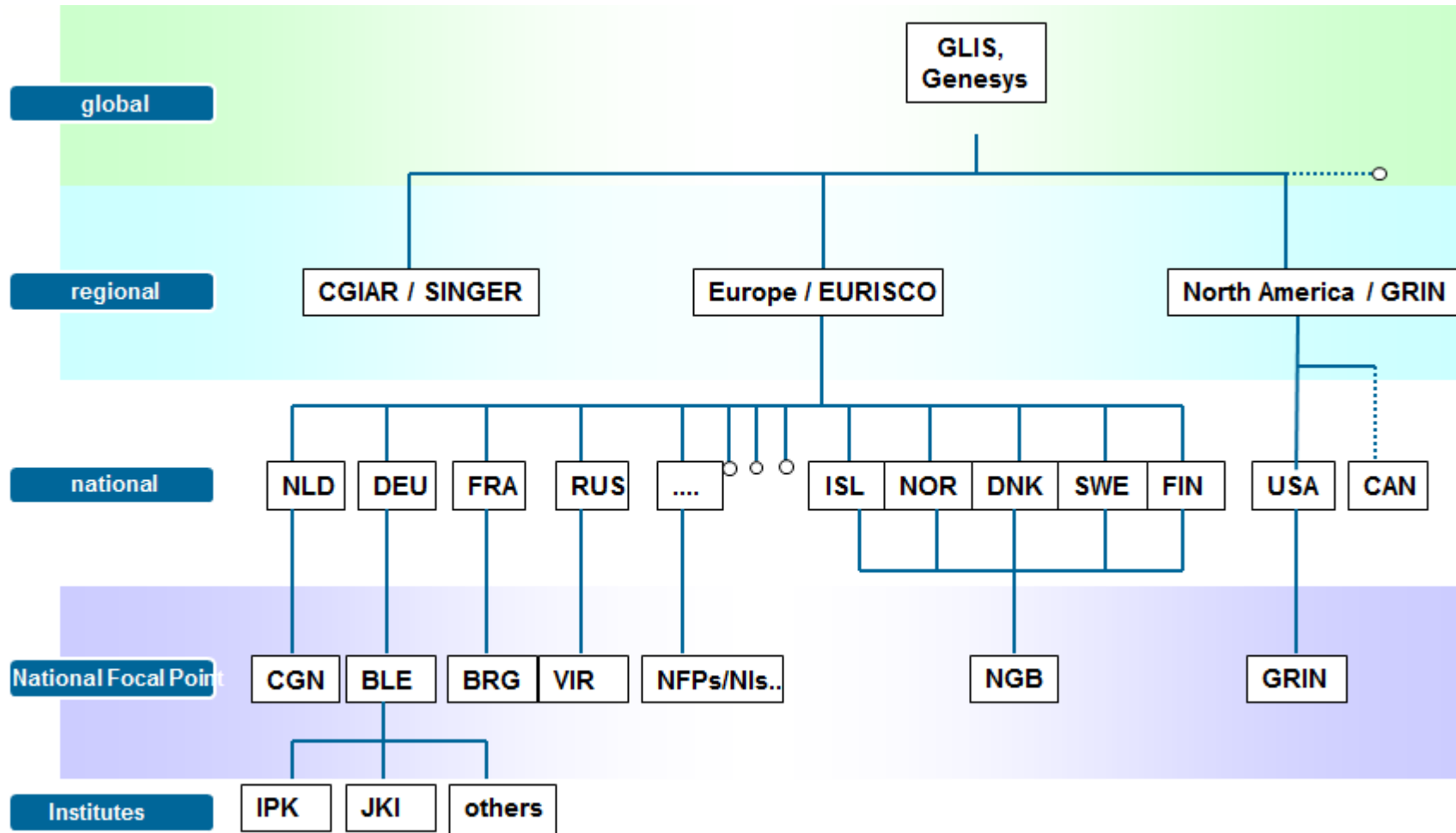
¹Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Gatersleben, Corrensstr. 3, 06466 Seeland, Germany, ²Centre for Genetic Resources, The Netherlands (CGN), Wageningen University & Research, Droevendaalsesteeg 1, 6708 PB Wageningen, The Netherlands and ³European Cooperative Programme for Plant Genetic Resources (ECPGR), c/o Alliance of Bioversity International and CIAT, Via di San Domenico 1, 00153 Rome, Italy

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Data flow



Global Information Infrastructure



Accession details

The screenshot shows the eurisco website interface. The header includes the eurisco logo and navigation links. The main content area is divided into several sections:

- National inventory:** National Inventory Code: TRI16, National Inventory: Germany
- Holding institute:** Institute Code: DEU146, Institute Name: Genebank, Leibniz Institute of Plant Genetics and Crop Plant Research
- Accession:** Accession Number: TRI 10454, Accession Names: White Kandahar [land race], Country Of Origin: Afghanistan, MLS Status: part of the MLS, AEGIS Status: not part of the AEGIS
- Taxonomy:** Genus: Triticum, Species: sp.
- Acquisition/storage:** Acquisition Date: 1973, Acquisition Source: Other, Germplasm Storage: Long term
- Collection:** Collecting Number: 83, Collecting Date: 1973, Collecting Latitude: 31.633333, Collecting Longitude: 64.3, Collecting Elevation: 800, Collecting Site: Chalgh
- Map:** A map showing the collection location in Afghanistan, with a red pin and labels for 'Chalgh' and 'Leitlich Gah'.
- Donor:** Donor Accession Number: 2672, Description: 180 Southwest, Italy
- Breeder:** No data found
- Other:** Accession URL: <http://plants.ark.com/ark:/61906/1Q1545>, Other Numbers: DEU146:W 2427

National inventory
National Inventory Code: DEU
National Inventory: Germany

Holding institute
Institute Code: DEU146
Institute Name: Genebank, Leibniz Institute of Plant Genetics and Crop Plant Research

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...

C&E data

Back

Distribution of scores



Descriptive statistics

Trait Name	Minimum	Maximum	Average	Stddev	Variance	First Quartile	Median	Third Quartile
Peronospora destructor	2	8	5.01	1.42	2.01	4	5	6

Experiment Description **Field trail. Mainly short day onions. Sowing date 28-1-91, Planting date 10-4-91. Planting distance 8x40 cm, 140 plants per object. Bulbs harvested 9-9-91. Transplanted in peat pots making bulbs more flat. Location de Goor, Wageningen.**

Trait name **Peronospora destructor**

Trait method **(1=very resistant, ..., 9=very susceptible)**



In situ CWR data in EURISCO (2021–2023)

- Definition of scope
- Data flow mechanism
- Based on FAO CWR *in situ* descriptors
- EURISCO extension
- Inclusion of model country data sets



Descriptors for uploading *in situ* CWR passport data to EURISCO

2022-11-02

1 Introduction

This descriptor list describes the data exchange format for uploading passport data from the National Inventories for *in situ* CWR to EURISCO.

The descriptors in this list are a selection from those of the *ex situ* format for upload, with the addition of a few. In case the descriptor name or description is deviating from the *ex situ* upload format, this is indicated in the description.



Federal Ministry
of Food
and Agriculture



ECP/GR

Promoting use of PGRFA

EVA

European Evaluation Network



PUBLIC–PRIVATE PARTNERSHIPS

Increasing ECPGR knowledge and opportunities on public–private partnerships for the use of plant genetic resources for food and agriculture.

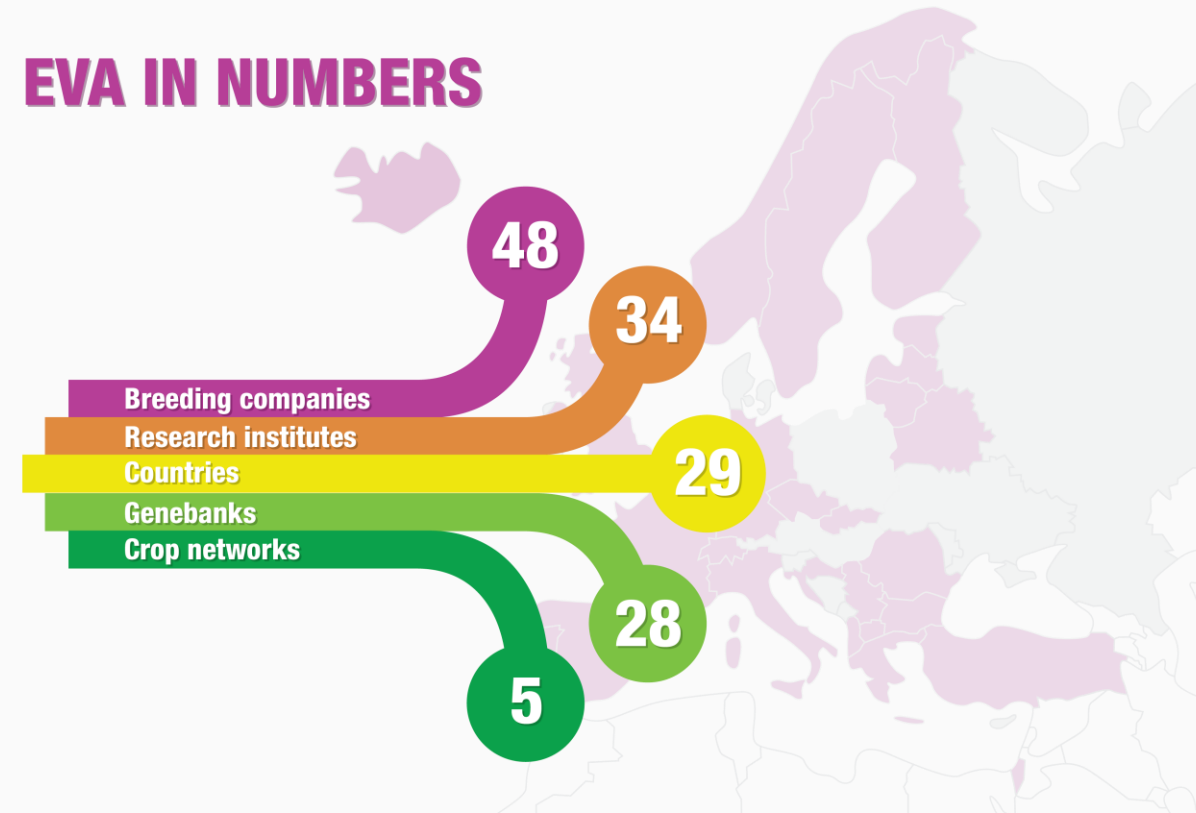
More than 90 EVA partners

- **Public partners:**
 - Genebanks
 - Universities and research institutes
- **Private partners**
 - Multinational breeding companies
 - SME breeding companies
 - Organic breeding companies
 - Breeding and farming cooperatives

→ **Networks are open to new partners**

→ **ECPGR can facilitate establishment of new networks**

EVA IN NUMBERS



109 Evaluation trial sites across Europe



EVA wheat trial 2021, BASF (V. Spamer)



EVA lettuce trial 2022 *Sativa* Rheinau (C. Aichholz)



EVA pepper trial 2021, Semillas Fito (M. Fernandez)



EVA carrot trial 2021 Institut Agro Angers (E. Geoffriau)



EVA maize trial 2021, CREA-CI (C. Balconi)



Genetic Resources Strategy for Europe

Launched in Bruxelles, 30 November 2021



Genetic Resources:

a NEW open-access
journal for the
GenRes community

www.genresj.org



Genetic Resources

www.genresj.org

Main decisions of the ECPGR Steering Committee (June 2023)

- Phase XI Budget
- Table of priorities for Phase XI
- ECPGR Network of European Genebank Managers
- Terms of Reference of ECPGR for Phase XI



Phase XI budget: Euro 3.1 M

	2024	2025	2026	2027	2028	Total
Activities						
WG Chair's meeting			20,000		20,000	40,000
WG activities	102,064	102,064	102,064	46,816	46,816	399,824
EVA Coordination (90%)	21,165	55,046	64,106			140,317
AEGIS Coordination (20%)	27,486	28,486	30,610	24,103	24,826	135,511
Training workshops EURISCO		12,000		12,000		24,000
Activities Total	150,715	197,596	216,780	82,919	91,642	739,652

WG activities target total: Euro 510,000 over 5 years

How to use the budget line ‘WG activities’

- **Grant Scheme:** criteria for assignment of funds under the Grant Scheme will be linked to the recommended priority actions at each given call for proposals
- Occasional justified requests submitted by the Working Groups for the organization of **Meetings** (on a first-come first-served basis)
 - 1) which specific achievements it is expected to reach, in terms of facilitating the implementation of ECPGR priorities.
 - 2) Cost-effectiveness and synergies with other initiatives

Examples:

 - meetings in preparation for an EC project
 - planning of new EVA Networks
 - training of genebank information system officers, etc.



ECPGR Network of European Genebank Managers

The ToRs of the Network were approved (Annex II)

Genebank Managers Network

- Overall aim to strengthen the management of genebanks through the exchange of knowledge, cooperation and capacity building of genebanks, including the various aspects of leading and managing a genebank.



ToRs of ECPGR for Phase XI



PHASE XI (2024–2028)

**RULES OF PROCEDURES
AND
TERMS OF REFERENCE FOR OPERATIONAL BODIES AND
MECHANISMS**

Approved by the Steering Committee
June 2023

Available at
[this link.](#)

Promoting a Plant Genetic Resource Community for Europe (2023–2025)

- Coord. by Giovanni Giuliano, ENEA, Italy – €3.38M, 31 partners
- Develop the concept for a novel European Research Infrastructure dedicated to cataloguing, describing, safeguarding and enhancing European plant genetic resources for food and agriculture.



**Thank you for
your attention**