





European Evaluation Network

INFORMATION ON ECPGR AND EVA

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ForEVA meeting, Bucharest, Romania 10 October 2023



The European Cooperative Programme for Plant Genetic Resources

ECPGR is a collaborative programme among most European countries since 1980, aiming at ensuring the long-term conservation and facilitating the sustainable utilization of plant genetic resources in Europe



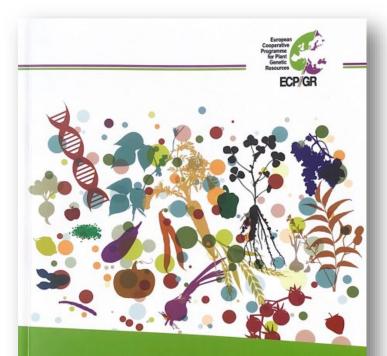


Aims

The **PGR strategy for Europe** outlines goals and necessary actions and step changes needed for the next decade. ECPGR priorities are in line with this Strategy

The main objectives are:

- 1. Expanding the *in situ* conservation of crop wild relatives and wild food plants
- 2. Promoting on-farm plant genetic resources conservation and management
- 3. Consolidating and sustaining *ex situ* conservation
- 4. Promoting sustainable use of PGR
- 5. Strengthening a comprehensive information system for PGRFA.



PLANT GENETIC RESOURCES STRATEGY FOR EUROPE



https://bit.ly/PGRstrategy



ECPGR structure:







PGRFA diversity in European Genebanks

2,080,035 accessions listed in EURISCO

- 43 national inventories,
- **402** holding institutes
- 6,737 different genera
- 45,178 species
- 428,375 MLS accessions
- 70,188 AEGIS accessions

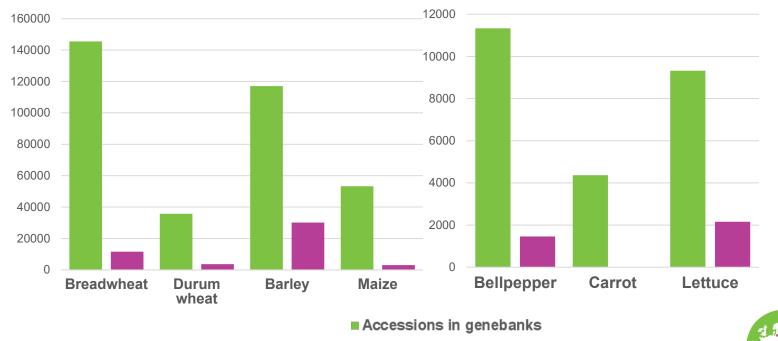
230,532 DOIs

Limited knowledge of characteristics of European genebank accessions

Reurisco Finding seeds for the future http://eurisco.ecpgr.org

ECP/G

EVA Crops in EURISCO



Accessions with C&E data

European Evaluation Network for PGRFA



https://www.ecpgr.cgiar.org/eva



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EVA initiative aims to:

- Increase knowledge on germplasm held in European genebanks
- Improve passport information and add C&E data in EURISCO
- Promote the use of genebank germplasm in research, breeding and cultivation
- Identify climate-resilient breeding material
- Foster cooperation between public and private sector through MoU with Euroseeds signed in 2018
- Widen the stakeholders involved in using PGRFA through creation of public-private partnerships
- Create self-sustaining networks that evaluate available PGRFA in continuous evaluation cycles



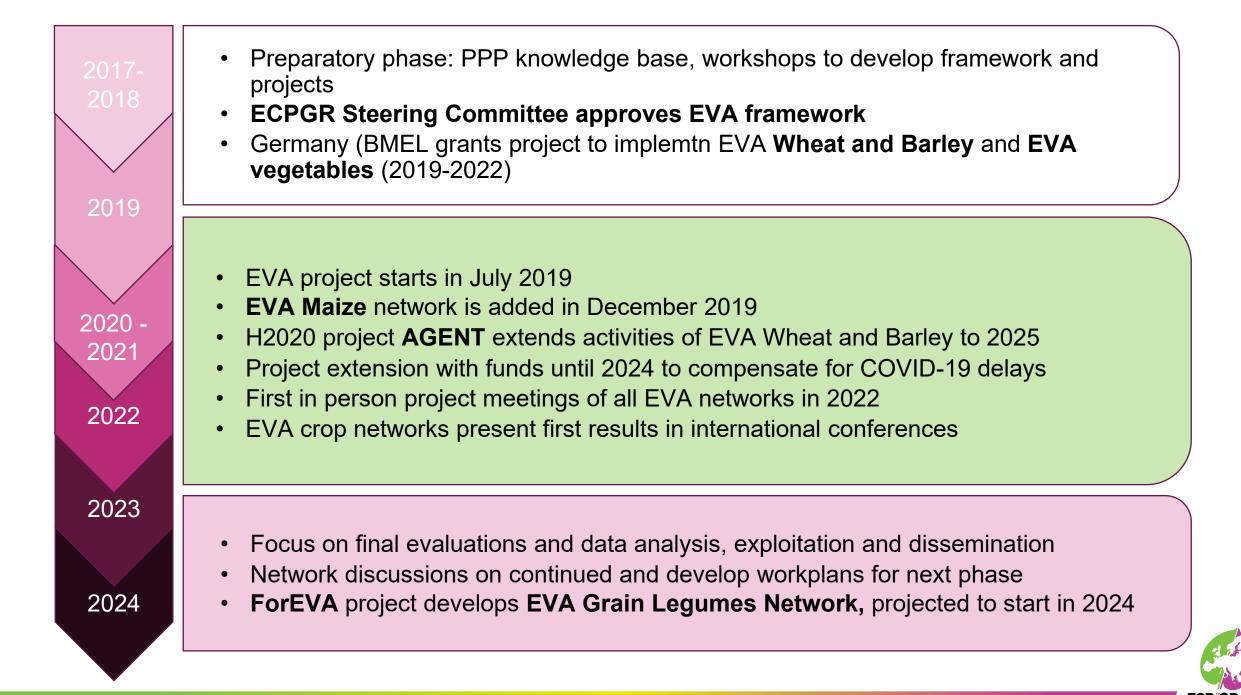
Federal Ministry

and Agriculture

of Food

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

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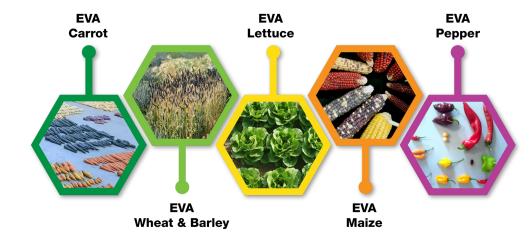
FVA

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



Benefits of EVA networks

Joint work on pre-competitive level provides benefits to all partners:

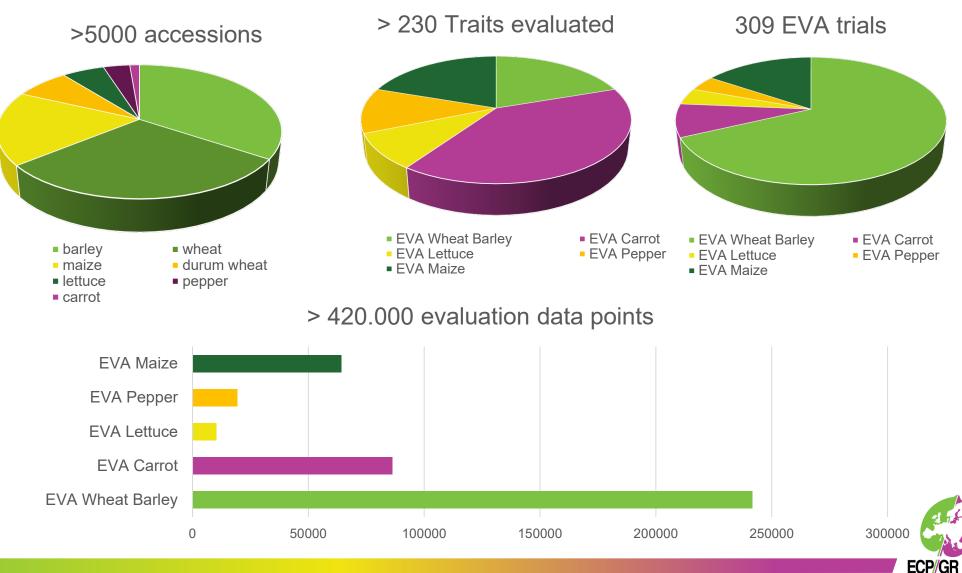


- Access to unique international research and breeding network
- Access to genebank collections and unique materials
- Shared expertise and knowledge
- · Joint work based on expertise and capacity
- Large phenotypic datasets from multilocation trials
- Joint analysis and dissemination of results
- Data embargo as incentive for private partners to contribute in-kind
- Results and materials will be publicly available (through EURISCO and SMTA)





Output of EVA networks (2020-2023)



Dissemination and exploitation



ECPGR @ECPGR

.@gosandrago introduced @ECPGR's work to conserve and use plant genetic resources in Europe, and presented a paper on a SPET SNP assay in lettuce just published in Frontiers by the #EVANetwork team doi.org/10.3389/fpls.2...

#leafyveg23

Guido Van den Ackerveken @guidopmi · Aug 29

European Evaluation Network for genetic resources by @gosandrago #leafyveg23 today she is presenting the efforts on lettuce, in particular robust SNP genotyping panel.



CARR & OTHER APIACEAE SYMPOSIUM





ANNUAL CONGRESS ITALIAN SOCIETY OF AGRICULTURAL GENETICS

Bari, 5-8 September 2023



Front. Plant Sci., 18 August 2023 Sec. Plant Bioinformatics Volume 14 - 2023 | https://doi.org/10.3389/fpls.2023.1252777

frontiers This article is part of Advances on Genomics a in Plant Science Contribution to Breeding View all 6 Articles >

Development and application of Single Primer Enrichment Technology (SPET) SNP assay for population genomics analysis and candidate gene discovery in lettuce

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11 European Cooperative Programme for Plant Genetic Resources (ECPGR) Secretariat c/o Alliance of Bioversity International and CIAT, Rome, Italy



EUCARPIA Leafy Vegetable Conference 28 - 31 August 2023 in Utrecht, the Nétherlands





Acknowledgements

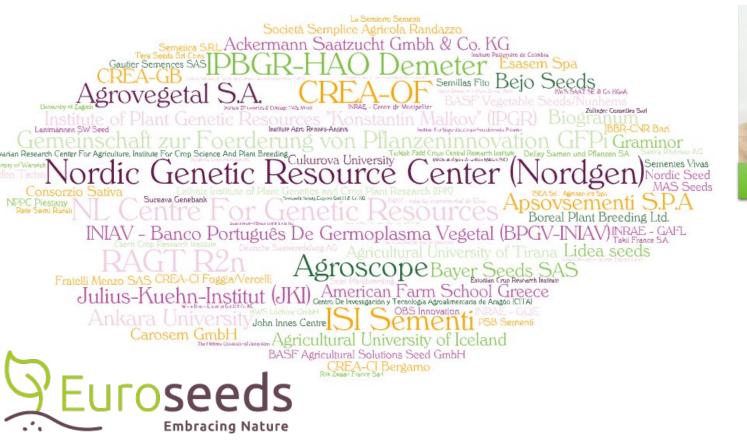
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Federal Ministry of Food and Agriculture



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EVA network partners:



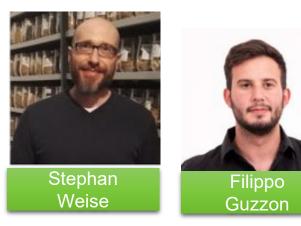
ECPGR Secretariat:







Nora Capozio





THANK YOU