

Bundesforschungsinstitut für Kulturpflanzen Federal Research Centre for Cultivated Plants

# Discussion about the future cooperation – proposals for joint action

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## WHAT BASES DO WE HAVE? - WHICH PREVIOUS PROJECTS?

1994 - 1995 European AIR project	1. inventory of strawberry: 900 cultivars of the main European collections
1998 - 2003 European COST action 836	<b>1056 strawberry cultivars from 20 collections</b> .108 important cultivars were selected as the core mainly for historical reasons.
2007 - 2011 EU GENEBERRY	Ensure that agricultural biodiversity of small berries, strawberry and red raspberry, is preserved and characterized for using them in further breeding programs
2007 - 2011 EU RIBESCO	Establish cooperation between national collections in different countries in order to find the most valuable part of each collection and organize a decentralized corecollection for the safe and recognized conservation.
2011 - 2014 EUBerry	The sustainable improvement of European berry production, quality and nutritional value in a changing environment: Strawberries, Currants, Blackberries, Blueberries and Raspberries.
2016 - 2020 GoodBerry	The project provide the necessary knowledge and procedures to facilitate the development of highly productive and top quality berry fruits, even under multiple suboptimal growth conditions at competitive costs

# **Problems**

- 1. only a limited number of partners/countries could be involved
- 2. the time frame was limited
- 3. the topic "genetic resources" covers only a very limited part



- Strawberry is on the Annex 1 list of the International Treaty on Plant Genetic Resources for Food and Agriculture
- ➤ ECPGR WGs for *Malus/Pyrus* (1995) and *Prunus* (1983 as one of the original six WGs) with a long active work

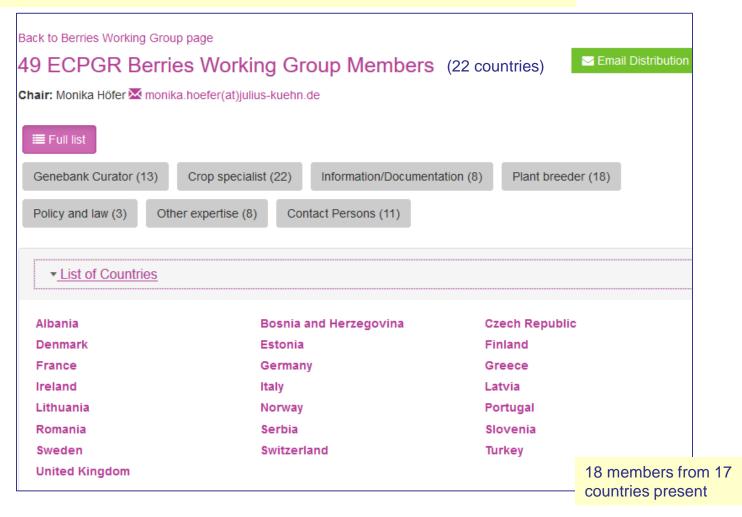
# **History of THE ECPGR WG Berries**

	Proposal to the ECPGR Executive/Steering Committee for the establishment of a Berries
December 2018	Working Group
January 2019	Expression of Interest to serve as ECPGR Working Group Chair during Phase X
March 2019	Nomination of the WG Chair
From April 2019	Nomination of the members of the WG by respective National Coordinators
October 2019	Invitation for the 1. Meeting of the ECPGR WG Berries in Dresden
December 2019	Second curricular
January 2020	1. Meeting of the ECPGR WG Berries in Dresden

# http://www.ecpgr.cgiar.org/working-groups/berries/







#### **OBJECTIVES**

# Coordination of the genebank activities between the national collections - Elaboration of a living European berries database sustained by a continuous long-term network co-operation

### 1. INVENTORY - CONSERVATION

- Survey the collection composition in all European countries especially those not involved in former EU-projects
- Development of an effective conservation strategy for berry genetic resources rationalisation of conservation in ex situ collections (Manual common agreed standards). A combination of traditional ex situ conservation with cryopreservation has great potential to improve berry germplasm conservation and to foster conservation of valuable germplasm.
- Obtain information about the current status of safety-duplication in all collections and long term facilities. Partners will be encouraged to make plans for safety-duplication through organization of material exchange.

#### 2. CHARACTERIZATION / EVALUATION

- Re-examination of passport descriptor lists and characterization protocols to improve standardization/harmonization and to develop primary and secondary descriptors.
- Characterization of genotypes using molecular markers, identification of health nutritional compounds and diseases evaluation
- Re-actualisation of the core collections obtained from the former projects and establishment of a core collection for all berry species



#### 3. AEGIS - DOCUMENTATION

- Development of criteria for acceptance to candidates to implement AEGIS collection of each berry species
- Improve the information contained in the present databases ensure the long-term durability of the databases
- Establish suitable links between these databases, EURISCO and national information systems





Search

Advanced search

Export data by species

**Export data by National Inventory** 

Home > Search > National inventory report taxonomy

National inventory report

1-10	
National Inventory	No Of Accessions
Czech Republic	<u>79</u>
Estonia	<u>13</u>
Germany	<u>470</u>
Italy	<u>24</u>
Latvia	2
Lithuania	<u>5</u>
North Macedonia	<u>17</u>
Russian Federation	<u>624</u>

128

568

1-10

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Spain

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Matches

Total number of selected accessions:

1930

Search term:

Fragaria ×ananassa

Total number of accessions (including misspellings and synonyms):

1930 accessions were found, 8 different taxa were detected.

Synonym names were derived from GRIN taxonomy and Mansfeld taxonomy.

Select all

Deselect all

Select	Taxon	No Of Accessions
$\checkmark$	Fragaria ×ananassa Duchesne Ex Rozier	470
	Fragaria x ananassa Duchesne	143
	Fragaria x ananassa Duch.	24
$\checkmark$	Fragaria x ananassa Duchesne in Lam. ex Rozier	568
	Fragaria ananassa Duch.	5

1-5 of 8 >



#### 3. AEGIS - DOCUMENTATION

- Development of criteria for acceptance to candidates to implement AEGIS collection of each berry species.
- Improve the information contained in the present databases ensure the long-term durability of the databases.
- Establish suitable links between these databases, EURISCO and national information systems

#### 4. Breeding and other use

> Facilitate the use of berry genetic resources by breeders and other possible users

**ELABORATION OF A WORK PLAN** 







Mode of Operation of ECPGR – Phase X

Steering Committee decisions (October 2018)

Working Group activities are covered by two budget lines of similar amounts:

- Budget line 'Meeting': Meetings should be planned in order to enable proactive Working Group members to collaborate towards implementing the ECPGR objectives
- 2. Budget line 'other activities': Additional activities directed to implement the ECPGR objectives will be funded through the Grant Scheme based on selection of proposals by the Executive Committee.



# Third Call for Phase X of ECPGR (2019 – 2023)

The Executive Committee decided the launch of the Third Call for ECPGR-funded actions during November 2019, with **deadline for submission 14 February 2020.** 

**Expected budget:** The maximum amount for each Working Group should not exceed € 20 000.

## Scope

Proposed Activities should address elements of the **objectives of the ECPGR for**Phase X



### **OBJECTIVES OF ECPGR FOR PHASE X (2019-2023)**

(agreed at the 15th Steering Committee meeting, May 2018)

#### LONG-TERM GOAL

Stakeholders in Europe collaboratively, rationally and effectively conserve ex situ and in situ PGRFA, provide access and increase sustainable use.

#### **OBJECTIVES**

click on the 'objective' below to go to the respective page

1	To efficiently conserve and provide access to unique germplasm in Europe through AEGIS and the European Collection
2	To provide passport and phenotypic information of actively conserved European PGRFA diversity ex situ and in situ through the EURISCO catalogue
3	To improve in situ conservation and use of crop wild relatives
4	To promote on-farm conservation and management of European PGRFA diversity
5	To promote use of PGRFA

# **Eligible expenditures**

Eligible expenditures to carry out **proposed Activities include staff costs**, **equipment**, **supplies**, **travel and meeting costs**. Overheads are not eligible. There is no limitation whether these activities should be meetings or different actions and the country quota does not apply.

# **Preparation for proposal submission**

Proposals can only be submitted by the **Chairs of ECPGR WGs**. However, any member of an ECPGR WG can be **Activity Coordinator** and submit proposals through the channel of his/her respective WG Chair.

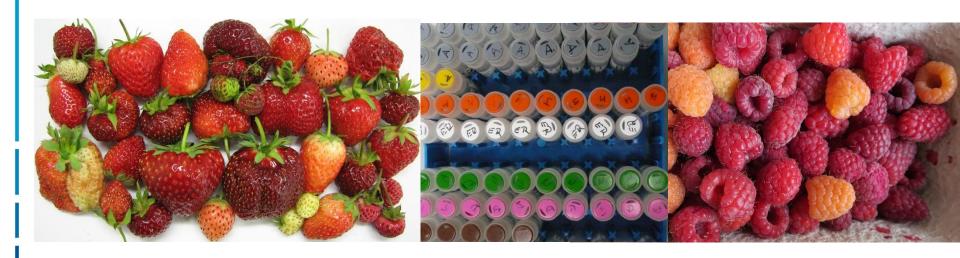
#### Submission of proposals

The submission of the proposal must be done by the **Working Group Chair** by completing the **online Proposal Application form** (below) and attaching the following forms (to be prepared by Activity Coordinator and sent to WG Chair, if a different person):

- M Activity Proposal (86 KB)
- Budget table (152 KB) Excel file: Budget table (37 KB)
- 🔎 Expressions of Interest (163 KB) Word file: 📦 Expressions of Interest (74 KB)







# **Ideas for Activities?**

# Developing dynamic management and documentation Berry genetic resources collection *ex situ*



Harmonize and enhance management of existing *ex situ* collections and databases of berry genetic resources

Conduct an inventory of potentially unique and important traditional cultivars of each / selected berry species

- cultivars,
- Passport data

Developing criteria for candidate acceptance to implement **AEGIS** collection of each / selected berry species

Labelling of accessions as part of the AEGIS

Documentation - Which database? - EURISCO

Develop crop-specific technical guidelines for genebank management incl. Minimum quality standards - Manual

- virus tested,
- In vitro/ cryopreservation
- safety-duplication

**Developing/ implementation of a safety strategy for AEGIS candidates**