

Germplasm conservation for future and current uses

The importance of Seed Banks for the conservation of endangered species

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Network of *ex situ* plant conservation activities



Network of *ex situ* plant conservation activities



Mediterranean Plant Conservation Centres Network: 25 members from 14 Mediterranean country



European Native Seeds Conservation Network for the preservation of wild species by maintaining a germplasm bank: 17 member states of the European Union



Italian Seed-bank Network for native species conservation: 17 seed-bank from 14 Italian regions



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Sardinian Germplasm Bank (BG-SAR)

The Sardinian Germplasm Bank (BG-SAR), a facility belonging to the University of Cagliari (Italy), participates actively in these international networks.

The main objectives of BG-SAR are the collection, multiplication and management of the germplasm belonging to rare, threatened and endemic taxa and/or with agronomic/cultural interest.



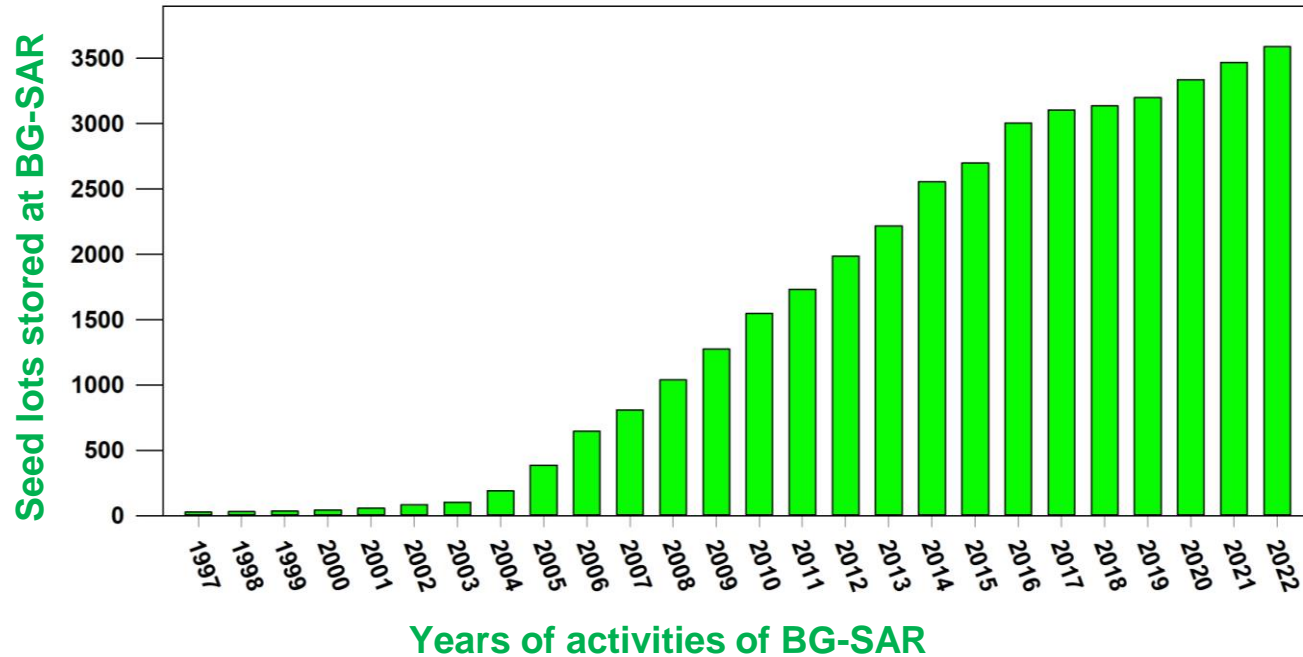
BG-SAR was founded in 1997 and preserves approximately 3500 seed lots by 1350 different taxa, many of which endemics of Sardinia.

In particular, the bank preserves the germplasm of about 47% of policy species and about 42% of exclusive Sardinian endemics.

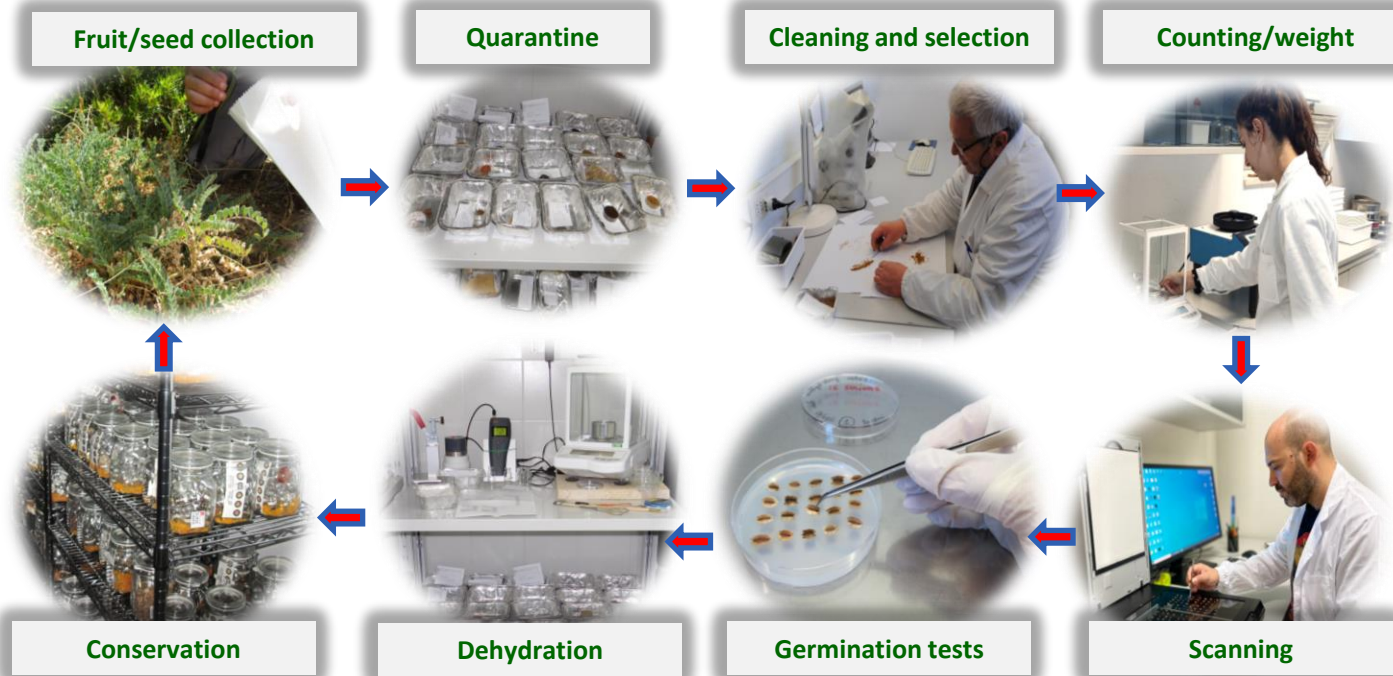
Among them, it is important to highlight that the bank preserves most of the exclusive endemic taxa included in the Annexes of the Habitats Directive (DIR 92/43/EEC).

Conservation of plant heritage at BG-SAR

The work of BG-SAR over the years for the conservation of plant heritage



Preserving quality and viable seeds at low temperatures in the long term conservation is the final result of the plant material working processes





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BG-SAR is involved in many conservation projects:



Prioritized Action Frameworks (PAFs)





UNIONE EUROPEA
Fondo europeo di sviluppo regionale



REPUBBLICA ITALIANA



REGIONE AUTONOMA DI SARDEGNA
REGIONE AUTONOMA DELLA SARDEGNA



POR FESR
PROGRAMMA 2014-2020



Comune Oliena



Comune Urzulei



Forestas
SARDEGNA FORESTE
SARDEGNA FORESTE



LIFE SEED FORCE
SAVING PLANT DIVERSITY

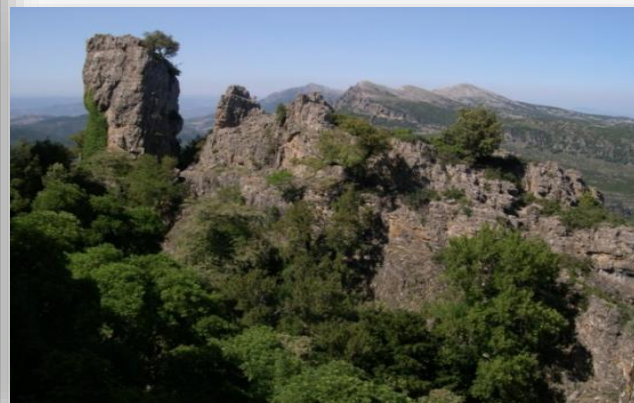
STUDY CASES

“Ex situ and in situ conservation of Corrasì Mount endemic species”

Project financed by Urzulei Municipality through European funds within the Prioritized Action Frameworks (PAFs) to implement the EU-wide Natura 2000 network (action 6.5.1 POR FESR 2014-2020) in the SAC "Supramonte di Oliena, Orgosolo e Urzulei - Su Sercone"

Actions:

1. Collection of germplasm
2. *Ex situ* conservation
3. Germplasm testing
4. *In situ* conservation



STUDY CASES

Ribes sardoum and *Valeriana amazonum*

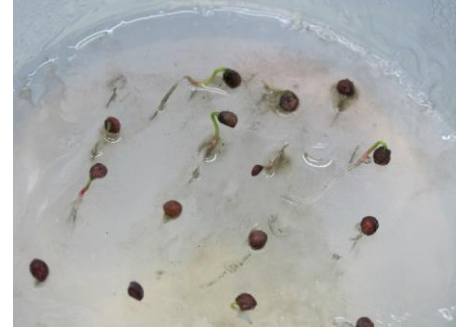
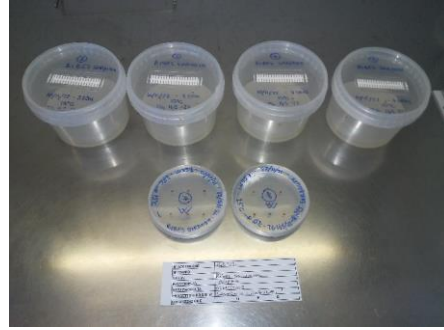
Ex situ and *in situ* conservation actions



Study cases

Ribes sardoum and *Valeriana amazonum*

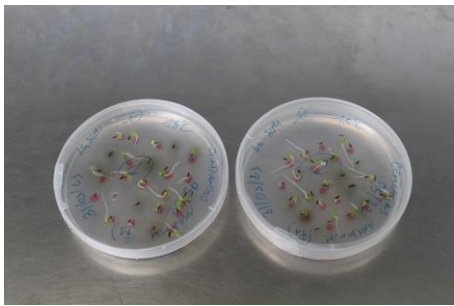
Ex situ and in situ conservation actions



STUDY CASES

Ribes sardoum and *Valeriana amazonum*

Ex situ and in situ conservation actions



Threats



Plant diversity

Integrated *in situ* and *ex situ* approach



the best strategy to remove the threats and improving habitat and population status of endangered species



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Thank you!

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