“Contribution of the Spanish Vegetable Genebank BGHZ-CITA to crop diversification”

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CROP DIVERSIFICATION IN A CHANGING WORLD
Mobilizing the green gold of plant genetic resources
Montpellier, France, 08-11 May 2017
The Spanish Vegetable Genebank BGHZ-CITA

17425 accessions
Spanish vegetable landraces and crop wild relatives

Stored as dry seed (silicagel) at -18ºC

WEB BGHZ
http://bghz.cita-aragon.es/

Spanish National Inventory
http://wwwx.inia.es/inventarionacional/

Eurisco Databases
http://eurisco.ipk-gatersleben.de

FAO Code: ESP027
Contribution to crop diversification:
I. Seed distribution

*Seed samples provided:* Request are increasing year on year.

*Germplasm users:*
- The genebank provides seeds to researchers, breeders and growers interested in vegetable crops.
- Most of the accessions are used by:
  - Researchers/breeders: to search for valuable traits (quality aspects of disease and pest resistance)
  - Farmers: interested in local adaptation and quality.
- The requests include different vegetable species and CWR (56 species in 2016)
Stakeholders
• Farmers
• Seed growers
• Small enterprises
• Agricultural research institutes (Genebank)
• Seed networks
• Local groups
• Cooperatives
• NGOs...

II. Valorization of landraces

<table>
<thead>
<tr>
<th>Variety</th>
<th>Remarkable results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomato de Barbastro</td>
<td>This landrace has been registered as a Conservation Variety. Selected seeds are being commercialized by a local cooperative.</td>
</tr>
<tr>
<td>Cebolla Dulce de Fuentes</td>
<td>The studies have contributed to obtain the Protected Designation of Origin (PDO) quality mark. Nowadays growers use the seeds from the low pungency breeding program.</td>
</tr>
<tr>
<td>Judía Caparrona de Monzón</td>
<td>A Local Growers Association has been established. Growers have access to high quality seeds selected from local populations.</td>
</tr>
<tr>
<td>Borraja de Flor Blanca</td>
<td>‘Movera’, a variety with delayed bolting, has been selected from white-flowered local populations. ‘Movera’ is the most cultivated variety by local growers.</td>
</tr>
</tbody>
</table>
Other sources of variability are waiting to be explored...

Thank you very much for your attention