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European  
Cooperative  
Programme  
for Plant  
Genetic  
Resources



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# Crop Wild Relatives(CWR) *in situ* data in EURISCO

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Instituto Nacional de Investigação Agrária e  
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Banco Português de Germoplasma Vegetal



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# BPGV The Portuguese Plant Genebank





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# Introductory note



## National Plan for Plant Genetic Resources

### Strategic priorities

- To promote and strengthen the medium and long term **ex situ conservation** of cultivated species and **CWR**
- To promote and strengthen the **in situ conservation** of agrobiodiversity and **CWR**, in which the benefits of their usage, the farmer's rights and the access to PGR are the core guiding lines
- To update and deliver the National Germplasm system of PGR
- To strengthen the documentation system through a common platform.





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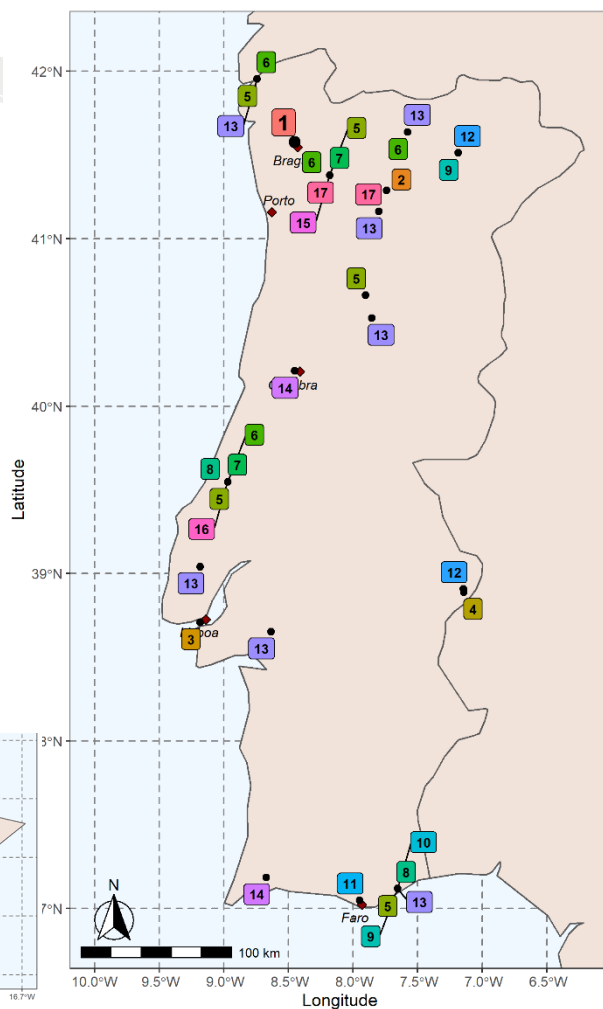
# Introductory note

## The collections of Plant Genetic Resources for agriculture in Portugal

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### Collections

- |    |  |
|----|--|
| 1  | Cereals; Grain legumes; Vegetables; Forrages; Medicinal and aromatic plantas; Fibers |
| 2  | Cucurbits  |
| 3  | Lupinus; Coffea  |
| 4  | Fibers; Forrages; Grain legumes  |
| 5  | Apples   |
| 6  | Pears  |
| 7  | Sweet cherry; Sour cherry; Persimmon; Quince   |
| 8  | Figs; loquat; Pomegranate  |
| 9  | Almonds  |
| 10 | Carob  |
| 11 | Citrus   |
| 12 | Olives   |
| 13 | Grapes   |
| 14 | Strawberry tree  |
| 15 | European hazel   |
| 16 | Walnut   |
| 17 | Chestnut   |
| 18 | Cereals; Grain legumes; Vegetables; Forrages; Medicinal and aromatic plantas;Fibers  |





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# The GRIN-Global Project





# The GRINGlobal Project



http://bpgv.iniav.pt

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Choose language [English](#)

Home Page > [Search Accessions](#) > General

Query Criteria:  
Search String: Zea%  
Search For:

Search Options | [Advanced Search](#)

Actions...

Select: All, None, Inverse, Highlighted Options: Show  items << < [276 - 300] of 500

Group By:	Plant Name	Taxonomy	Origin
<input type="checkbox"/> Plant ID			
<input type="checkbox"/> BPGV00276	Milho branco	<a href="#">Zea mays</a>	Portugal, Braga
<input type="checkbox"/> BPGV00277	Milho branco	<a href="#">Zea mays</a>	Portugal, Braga
<input type="checkbox"/> BPGV00278	Milho amarelo	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00279	Milho branco amarelado	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00280	Milho branco	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00281	Milho branco pérola	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00282	Milho branco	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00283	Milho branco pérola	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00284	Milho branco amarelado	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00285	Milho branco pego	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00286	Milho amarelo	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00287	Milho branco pérola	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00288	Milho amarelo	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00289	Milho branco	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00290	Milho branco	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00291	Milho moreno	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00292	Milho amarelo	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00293	Milho branco pérola	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00294	Milho moreno	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00295	Milho branco pérola	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00296	Milho amarelo	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00297	Milho branco	<a href="#">Zea mays</a>	Portugal, Viana do Castelo
<input type="checkbox"/> BPGV00298	Milho branco	<a href="#">Zea mays</a>	Portugal, Viana do Castelo

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BPGV00276

**Zea mays L.**

Collected from:	Braga Portugal
Maintained by:	Banco Português de Germoplasma Vegetal, INIAV, I.P.
NPGS received:	17-Out-1978
PI assigned:	1978
Backup location:	<a href="#">Biodiversity International</a>
Life form:	ANNUAL
Pedigree:	
Improvement status:	LANDRACE
Reproductive uniformity:	POPULATION
Form received:	Seed

**Accession names and identifiers**

Milho branco	
Type:	Local name
Group:	Cereals
Cooperator:	<a href="#">Rena Farias, Silas Pego, Eliseu Bettencourt E Bernardine (Chofer Da FAO), BPGV e EAN</a>

**Narrative**  
Milho palha média. Presença de milho rei - Backup n.º

**Source History**

- Accession was collected: 17-Out-1978, Braga Portugal  
Locality: Abaceros Habitat: Undulate Abaceros, Prado S. Miguel - Vila Verde Latitude: 41 deg. 40 min. 59 sec. West (-8.51665667) GoogleMap.it. Elevation: 190 meters.  
Collectors:  
1. [Rena Farias, Silas Pego, Eliseu Bettencourt E Bernardine \(Chofer Da FAO\), BPGV e EAN](#)
- Accession was offered: 17-Out-1978, Portugal  
Supported by:  
1. [Unidentified Agricultores](#)

Comment: COLLNUMB: 419/78

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**Accession for Zea mays L.**

BPGV00276 ( Mapped accessions = 1681)

Key to symbols 1

	BPGV00276
	1 accession
	2-5 accessions
	6-10 accessions
	11-100 accessions
	> 100 accessions





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TAKEOMI ETOH

JAPAN 1998



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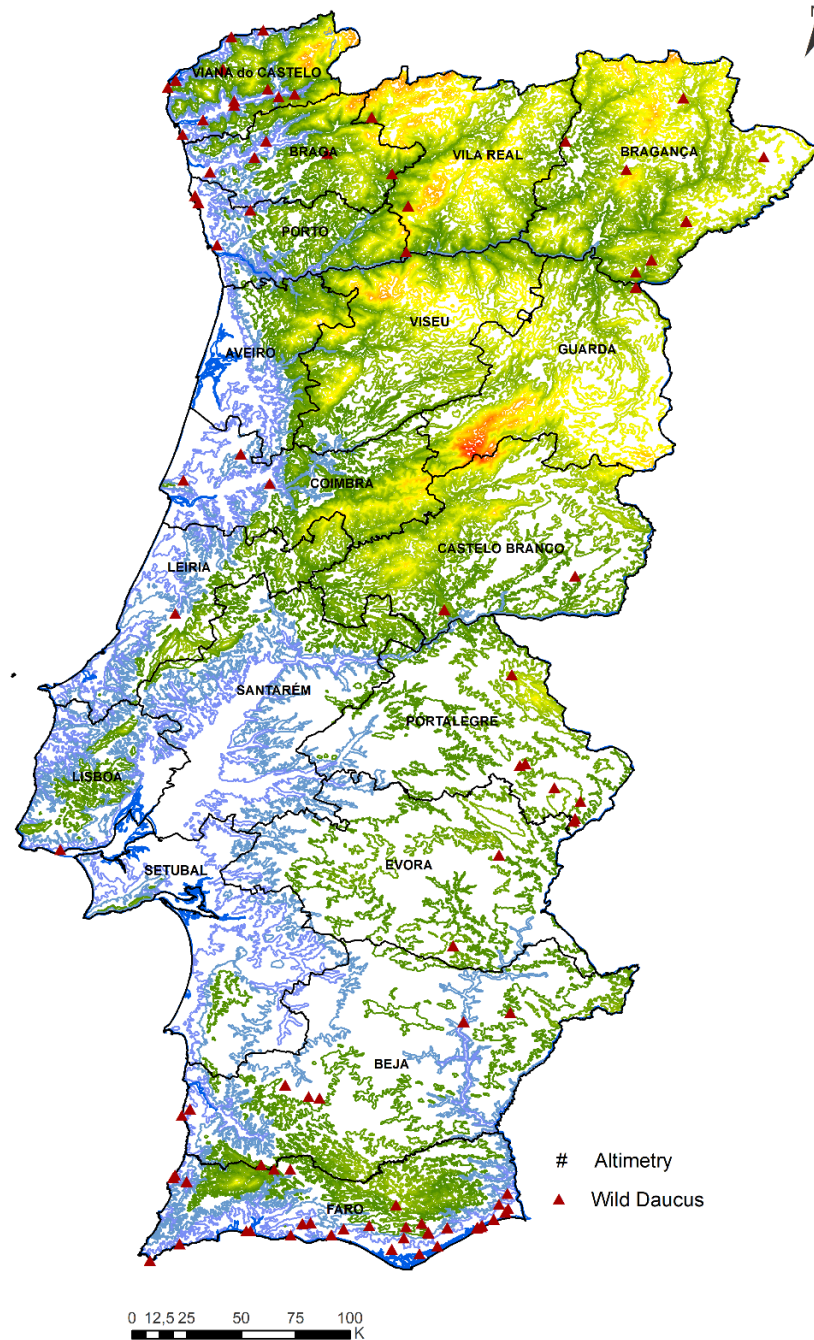
PHIL SIMON

USDA 2002





Taxon	Acessions
<i>Daucus carota</i>	1
<i>Daucus carota</i> subsp. <i>carota</i>	33
<i>Daucus carota</i> subsp. <i>hispidus</i>	8
<i>Daucus carota</i> subsp. <i>maritimus</i>	40
<i>Daucus carota</i> subsp. <i>maximus</i>	15
<i>Daucus carota</i> subsp. <i>sativus</i>	16
<i>Daucus crinitus</i>	19
<i>Daucus muricatus</i>	9
<i>Daucus</i> spp.	7
<b>Total</b>	<b>148</b>





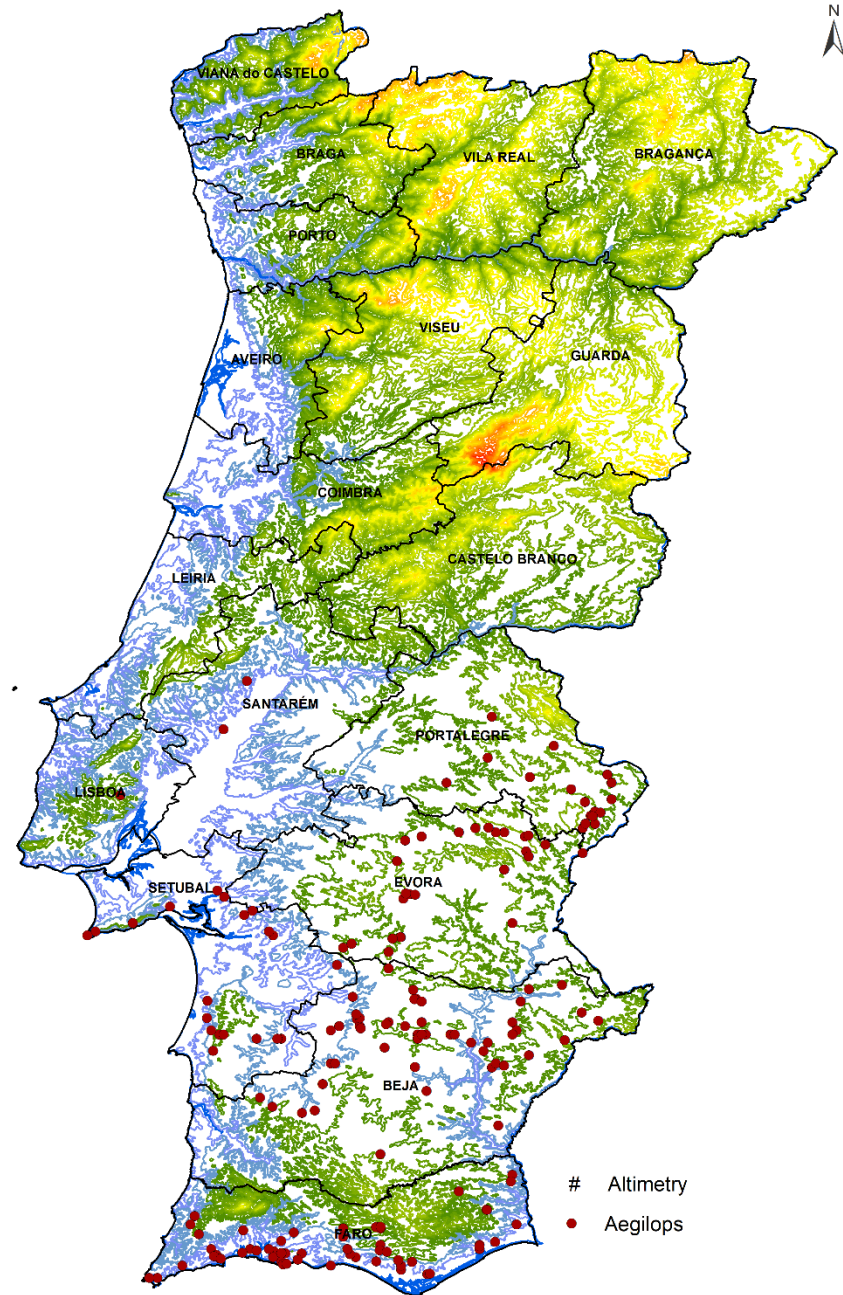
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Aegilops collection

235 accessions



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0 12.5 25 50 75 100  
K





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# Adapting Agriculture to Climate Change Project 2013-2018 financed by the Crop Trust

Collection of *Avena*, *Daucus*, *Hordeum*, *Lathyrus*, *Lens*, *Malus*, *Medicago*,  
*Pisum*, and *Vicia* gene pools  
in Portugal

Universidade de Lisboa, INIAV-BPGV and ISOPLEXIS (Madeira) and Azores

## 'High priority'

*Daucus carota* L. subsp. *gummifer* (Syme) Hook. f.

*Malus sylvestris* Mill.

*Medicago sativa* L. subsp. *falcata* (L.) Arcang. var. *falcata* (L.) Arcang.

*Pisum sativum* L. subsp. *elatius* (Steven ex M. Bieb.) Asch. & Graebn.

## 'Other priority'

*Lathyrus sylvestris* L.

*Lens nigricans* (M. Bieb.) Godr.



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## Portugal – Madeira – ilhas desertas

### There is a genetic reserve

*Plano de ação no âmbito do projeto Life Recover Natura*

*Plano de monitorização e conservação para a Beta patula Aiton*



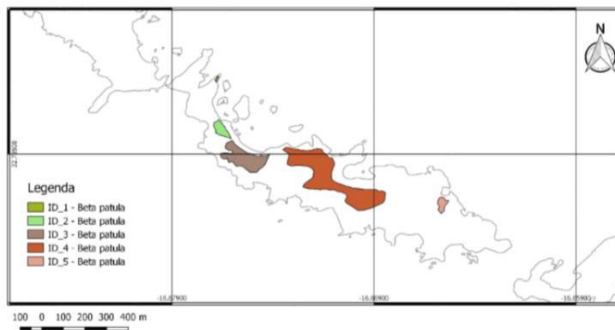
*Beta patula* Aiton [= *Beta vulgaris* subsp. *patula* (Aiton) Ford-Lloyd & J.T. Williams]

Elaborado por Miguel Ângelo Carvalho, Humberto Nóbrega, Gregório Freitas

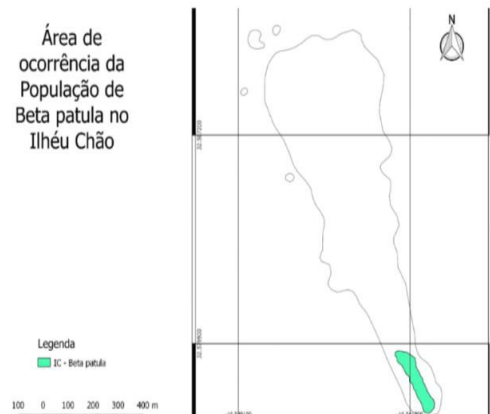
Contribuidores científicos equipas de campo do IFCN

Colaboradores externos Lothar Frese (consultor)

Áreas de ocorrência de populações de *Beta patula* no ilhéu do Desembarcador



Área de ocorrência da População de *Beta patula* no Ilhéu Chão







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## Next steps:

- ✓ Creation of the CWR national Inventory – CWR check list
- ✓ Prioritization of CWR for *in situ* conservation

CWR distribution analysis

*In situ* conservation priorities

*Ex situ* conservation priorities



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# Thank you very much