

# Portuguese Cucurbita spp. and Citrullus lanatus: Conservation, Evaluation and Breeding

Por: [Rocha, FA](#) (Rocha, F. A.)<sup>[1]</sup>; [Barata, AM](#) (Barata, A. M.)<sup>[1]</sup>; [Quedas, F](#) (Quedas, F.); [Lopes, F](#) (Lopes, F.); [Marreiros, A](#) (Marreiros, A.); [Leitao, J](#) (Leitao, J.)

Editado por: [Hummer, KE](#)

## XXVIII INTERNATIONAL HORTICULTURAL CONGRESS ON SCIENCE AND HORTICULTURE FOR PEOPLE (IHC2010): III INTERNATIONAL SYMPOSIUM ON PLANT GENETIC RESOURCES

Série de livros: Acta Horticulturae

Volume: 918

Páginas: 545-549

Publicado: 2011

### Conferência

**Conferência:** 28th International Horticultural Congress on Science and Horticulture for People (IHC) / International Symposium on Plant Protection / 3rd International Symposium on Plant Genetic Resources

**Local:** Lisbon, PORTUGAL

**Data:** AUG 22-27, 2010

### Resumo

Cucurbitaceae is one of the most important families of vascular plants. This family includes 118 genera and 825 species. The five major cucurbit crops are *Citrullus lanatus* Thumb Mansf. (watermelon), *Cucurbita maxima* Duchesne (pumpkin), *Cucurbita pepo* L. (squash), *Cucumis sativus* L. (cucumber) and *Cucumis melo* L. (melon). *Citrullus lanatus* and *Cucurbita* spp. are very important in the Portuguese agro-ecosystems, associated with maize, beans and cabbage. Due to the importance of *Citrullus* and *Cucurbita* spp., the Portuguese National Genebank (BPGV) has done systematic collecting missions in Portugal (Mainland and Madeira Island). Since 2001, BPGV in partnership with other National Institutions, Escola Superior Agraria de Santarem, Direccao Regional de Agricultura e Pescas do Algarve and Universidade do Algarve, has been carrying out activities related to preservation, characterization, evaluation and pre-breeding. In Portugal, in BPGV, the Cucurbitaceae collection preserved in ex situ conditions (medium and long term) totals 573 accessions. The collection of *Citrullus lanatus* and *Cucurbita* spp. has a total of 355 accessions, representing 62% of the whole collection: (37 of *Citrullus lanatus*, 19 of *Cucurbita ficifolia*, 74 of *Cucurbita maxima* and 224 of *Cucurbita pepo*). Based upon the diagnosis of the preserved collection, further germplasm collecting missions were recommended in Algarve Region.

AFLP and RAPDs markers were used to check the assignment of accessions to *Cucurbita* species: *C. pepo*, *C. maxima* and *C. moshata*. The morphological characterization followed the *Cucurbita* spp. and *Citrullus* descriptors, elaborated by Bioversity International, integrated in the European Cooperative Program for Genetic Resources, Cucurbits Working Group. Characterization data are reported herein. Departing from the most homogeneous accessions of *Citrullus lanatus*, *Cucurbita maxima* and *C. moschata*, three cultivars, one of each species, have already been selected and registered in the National Catalogue of Varieties.

## Palavras-chave

**Palavras-chave de autor:** Cucurbita; Citrullus  
lanatus; landraces; conservation; evaluation; breeding

## Informações sobre autores

**Endereço de reprint:** Rocha, FA (autor de reprint)

IP Banco Portugues Germoplasma, Inst Nacl Recursos Biol, Braga, Portugal.

## Endereços:

[ 1 ] IP Banco Portugues Germoplasma, Inst Nacl Recursos Biol, Braga, Portugal

## Editor

INT SOC HORTICULTURAL SCIENCE, PO BOX 500, 3001 LEUVEN 1, BELGIUM

## Categorias / Classificação

**Áreas de pesquisa:** Agriculture

**Categorias do Web of Science:** Horticulture

## Informações sobre documentos

**Tipo de documento:** Proceedings Paper

**Idioma:** English

**Número de acesso:** WOS:000313331500068

**ISBN:** 978-90-66055-54-4

**ISSN:** 0567-7572