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[home](#) [page](#) [about us](#) [contact](#) 

us

Table of Contents

IN PRESS

CJGPB 2014

CJGPB 2013

CJGPB 2012

CJGPB 2011

CJGPB 2010

CJGPB 2009

CJGPB 2008

CJGPB 2007

CJGPB 2006

CJGPB 2005

CJGPB 2004

CJGPB 2003

CJGPB 2002

CJGPB

Home

Editorial Board

For Authors

- **Authors
Declaration**
- **Instruction
to Authors**
- **Guide for
Authors**
- **Copyright
Statement**
- **Submission**

For Reviewers

- **Guide for
Reviewers**
- **Reviewers
Login**

Subscription

Czech J. Genet. Plant Breed.

**Santos M., Carneiro
L.C., Fevereiro P.,
Eiras-Dias J.E.J.:
Vitis vinifera ssp.
sylvestris (Gmel) Hegi
populations in
Southern Portugal:
assessing the genetic
diversity for its future
management and
conservation**

Czech J. Genet. Plant Breed., 46 (2010):
S87-S89

A survey of *Vitis vinifera* ssp. *sylvestris* (Gmel) Hegi in Portugal has revealed the existence of wildvine populations that occur only in riparian wood habitats on river margins, as is the case for other European populations. The genetic diversity of four populations has been evaluated using nuclear and chloroplastidial microsatellites as molecular markers. An analysis of molecular variance (AMOVA), showed that most of the genetic diversity was attributable to differences among individuals within populations. Only 7% of the total variance was attributable among populations; suggesting the existence of a low level of

population differentiation. Chloroplastidial microsatellites revealed the expected situation for the Iberian Peninsula, (i.e. the presence of only chlorotypes A and B; with chlorotype A as the most frequent within the wild-vine populations). The diversity obtained is a starting point for the management and conservation of wild-vines *in situ* and *ex situ*. Several measurements have to be taken to maintain their natural habitat, and in order to preserve its diversity.

Keywords:

genetic diversity; management and conservation; nuclear and chloroplastidial microsatellites; *Vitis vinifera* ssp. *sylvestris*

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