



## 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.**

**Macháčková I.,  
Horáček J.,  
Ehrenbergerová J.:**

**Development of  
fertility restorers of  
winter oilseed rape  
with low glucosinolate  
content for the CMS  
Ogu-INRA system**

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123-127

We have bred low glucosinolate (GSL) winter oilseed rape lines carrying the fertility restorer for the CMS Ogu-INRA system. The original restorer line BO20 contained 31  $\mu\text{mol/g}$  GSL in seeds, but by crossing this line with various low GSL CMS lines, followed by repeated selection of fertile segregants, we were able to obtain fertile lines with a mean GSL content in seeds of 11.8  $\mu\text{mol/g}$ . This result confirmed that the gene(s)

controlling the GSL content are not closely linked to the fertility restorer gene. The results confirm, that the SCAR marker SG34 is closely associated with the fertility restoring allele, and facilitates so the selection of fertile segregants; however, the marker is unable to distinguish between the homozygous *RfRf* and the heterozygous *Rfrf* genotypes.

### **Keywords:**

CMS Ogu-INRA; fertility restorer lines; glucosinolatesmolecular markers; winter oilseed rape

[ [fulltext](#) ]

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