



# Agricultural Journals

*Czech Journal of*

## **GENETICS AND PLANT BREEDING**

[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.**

**Hanzalová A.:**

**Multiplex PCR assay to detect rust resistance genes *Lr26* and *Lr37* in wheat**

Czech J. Genet. Plant Breed., 46 (2010): 85-89

Multiplex PCR was developed and optimized for simultaneous detection of wheat leaf rust resistance genes *Lr26* and *Lr37*. The presence of the genes was analyzed in 21 winter wheat cultivars registered in the Czech Republic. Gene *Lr37* was detected in four tested cultivars (Bakfis, Biscay, Nicol, Mulan), gene *Lr26* occurred only in one cultivar (Etela) and three cultivars (Clarus, Orlando and Rapsodia) were found to carry both these genes. Data obtained by PCR markers were compared with results of greenhouse and field tests. Seedling reactions of cultivars possessing *Lr26* to seven different leaf rust isolates conformed to the results obtained by the

marker analysis, however, there were found some discrepancies in the detections of Lr37, which could be detected in greenhouse seedling tests only with difficulties.

### **Keywords:**

leaf rust; *Lr26*; *Lr37*; multiplex PCR; wheat

[ [fulltext](#) ]

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