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Czech Journal of
**GENETICS AND
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Czech J. Genet. Plant Breed.

Sumíková T., Bartoš

P.:

**Determination of leaf
rust resistance genes
Lr10, *Lr26* and *Lr37* by
molecular markers in
wheat cultivars
registered in the Czech
Republic**

Czech J. Genet. Plant Breed., 45 (2009):
79-84

Twenty-seven winter wheat cultivars registered in the Czech Republic were tested by molecular markers for the presence of *Lr26* and *Lr37*, and twenty-eight cultivars for the presence of *Lr10*. Gene *Lr37* was determined in eleven cultivars, gene *Lr10* in ten cultivars and gene *Lr26* in four cultivars. Eight cultivars had combinations of two *Lr* genes, one cultivar possessed all the three *Lr* genes. The results of marker analyses were

compared with multipathotype analysis which confirmed the presence of *Lr26* but did not enable the verification of the presence of *Lr10* and *Lr37*. Seedling resistance was compared with resistance of the studied cultivars in the field.

Keywords:

wheat leaf rust; *Puccinia triticina*; rust resistance; genes *Lr10*, *Lr26* and *Lr37*; molecular markers; registered wheat cultivars; Czech Republic

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