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Czech J. Genet. Plant Breed.

**J., Herzová E., Bartoš
P.:**

**Physiologic
specialization of wheat
leaf rust (*Puccinia
tritricina* Eriks.) in the
Slovak Republic in
2005, 2006 and 2008**

Czech J. Genet. Plant Breed., 46 (2010):
114-121

In 2005, 2006 and 2008 the virulence of wheat leaf rust population was studied on Thatcher near-isogenic lines with *Lr1*, *Lr2a*, *Lr2b*, *Lr2c*, *Lr3a*, *Lr9*, *Lr10*, *Lr13*, *Lr15*, *Lr17*, *Lr19*, *Lr21*, *Lr23*, *Lr24*, *Lr26* and *Lr28*. Samples of leaf rust (141 in total) were obtained from different parts of Slovakia. Resistance gene *Lr9* was effective to all tested isolates except three isolates from 2008. No virulence was found to *Lr19* and genes *Lr24* and *Lr28* were also highly effective. Low incidence of virulence to *Lr2a* was observed. Sixty-

five winter wheat cultivars registered in Slovakia were tested with seven leaf rust isolates in the greenhouse. Cultivar Bona Dea was the most resistant of all.

Keywords:

leaf rust pathotypes; *Lr* genes; resistance; Slovakia; wheat

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