



Agricultural Journals

Czech Journal of

**GENETICS AND
PLANT BREEDING**

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Czech J. Genet. Plant Breed.

P., Sumíková T.:

**Physiological
specialization of wheat
leaf rust (*Puccinia
tritricina* Eriks.) in the
Czech Republic in
2009– 2011**

Czech J. Genet. Plant Breed., 49 (2013):
103-108

In 2009– 2011 virulence of the wheat leaf rust population was studied on Thatcher near isogenic lines with *Lr1*, *Lr2a*, *Lr2b*, *Lr2c*, *Lr3a*, *Lr9*, *Lr11*, *Lr13*, *Lr15*, *Lr17*, *Lr19*, *Lr21*, *Lr23*, *Lr24*, *Lr26* and *Lr28*. Samples of leaf rust were obtained in different parts of the Czech Republic. A total of 164 wheat leaf rust isolates were analysed. Resistance gene *Lr9* was effective to 98% of all tested isolates. No virulence to *Lr19* was found. Gene *Lr24* was effective to 93% of isolates. A lower frequency of virulence to *Lr2a*, *Lr2b* and *Lr28* was also observed. Recently

registered cultivars were tested with six older and five most widespread leaf rust pathotypes at present. Winter wheat cultivars Carroll and Citrus were resistant to all tested older pathotypes at the seedling stage and they were also resistant to almost all pathotypes