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Czech J. Genet. Plant Breed.

Dumalasová V., Sumí- kova T., Bartoš P.: Rust resistance of the French wheat cultivar Renan

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53-60

Our field experiments confirmed the leaf rust resistance of cv. Renan in the Czech Republic. Whereas the leaf rust resistance gene *Lr37* possessed by Renan is generally effective as late as at the adult plant stage, we found one leaf rust isolate that caused resistant to moderately resistant reactions on NIL *Lr37* as well as on the cv. Renan already at the seedling stage. This isolate was used in the study of genetics of the leaf rust resistance of cv. Renan in greenhouse experiments. The presence of translocation from *Aegilops ventricosa* carrying the cluster of rust resistance genes *Lr37*, *Sr38* and *Yr17* was also determined by a PCR molecular marker. All experiments confirmed the presence of

Lr37 gene in cv. Renan. The presence of *Lr14a*, postulated earlier, could not be verified. The resistance of cv. Renan in the field was slightly higher than that of the line Tc/8//VPM1 possessing *Lr37*, which may indicate a more complex genetic base of leaf rust resistance in the cv. Renan. In the progeny of the cross Boka/Renan leaf rust resistance gene *Lr37* behaved as a recessive or partially dominant gene, stem rust resistance gene *Sr38* as a dominant gene.

Keywords:

winter wheat; cv. Renan; leaf rust resistance; *Lr37*; *Sr38*

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