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CONTENTS

THE EFFECTIVENESS OF RESISTANCE GENES DERIVED FROM *AEGILOPS SPP.* TO WHEAT RUSTS

by

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Summary

In this paper resistance of nearly isogenic lines with genes Sr32, Sr33, Lr9, Lr21 and Lr22 derived from *Ae. squarrosa* and *Ae. umbellulata* is presented.

The genes Sr32 and Sr33 showed good effectiveness to different pathotypes of wheat stem rust in seedling stage. But, in adult stage lines with this genes were moderately resistant to very susceptible in Kragujevac and Zaječar. The most effective was gene Lr9. In our population of wheat leaf rust there is no alleles of virulence to this gene. The lines with other two genes (Lr21 and Lr22) were susceptible in Novi Sad and moderately susceptible in Kragujevac.

Studies showed that *Aegilops spp.* is very important source of Sr and Lr genes of resistance.

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PLANT PATHOGENIC BACTERIA PATHOGENS OF SMALL GRAIN CEREALS

by

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Summary

In this paper the literature review of the symptoms, bacteriological characteristics and hosts range of the pathogens (*Pseudomonas cichorii*, *P. fuscovaginae*, *P.s.* pv. *atrofaciens*, *P.s.* pv. *coronafaciens*, *P.s.* pv. *syringae*, *Xanthomonas campestris* pv. *translucens*, *Erwinia rhapontici* and *Bacilus megaterium* pv. *cerealis*) are given. Besides them the other bacteria as pathogens of cereals are mentioned: *Clavibacter iranicus*, *C. michiganensis* subsp. *tessellarius*, *C. rathayi*, *C. tritici* and *P. avenae*.

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RESISTANCE OF MALTING BARLEY CULTIVARS TO *RUSTS* AND *POWDERY MILDEW*

by

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Summary

In this paper resistance of 17 winter and 27 spring malting barley cultivars, selected in Yugoslavia, to Powdery Mildew, Leaf Rust and Stem Rust is presented.

A large number of tested cultivars has been susceptible. But, some cultivars were very resistant. Very high degree of resistance to Powdery Mildew showed the winter cultivars NS 183, NS 323, NS 311 and the spring ones Kraguj, Jelen, NS 300 and NS 324. Winter cultivars Jagodinac, NS 293 and NS 295, as well as spring cultivars Lazar, Viktor, Milan and NS 310 were resistant to Leaf Rust. The cultivars Biser, NS 293 and NS 295 were resistant to Stem Rust.

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