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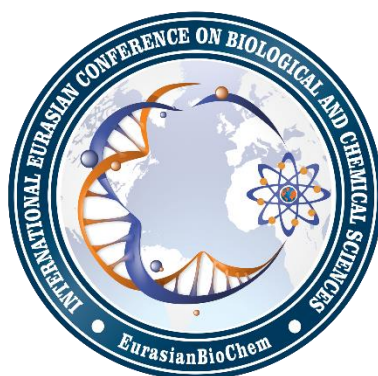
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ABSTRACT BOOK

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ABSTRACT BOOK



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➤ POSTER PRESENTATION

The Reactions of Bread Wheat Lines against Leaf (Brown) Rust Population in Seedling Stage

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Abstract

In bread wheat breeding studies, quality characteristics are of the primary selection criteria. Leaf (brown) rust, (caused by the pathogen *Puccinia triticina* (*Pt*)), is significant fungal diseases, affecting yield and quality in cultivars. In this study, it was aimed to determine the reactions of 26 bread wheat genotypes (75 -81 kg/100 lt in test weight, (Konya-2002; 78 kg/100 lt in test weight) developed by the Central Research Institute for Field Crops (CRIFC) Department of Quality Assessment and Food to local *Pt* population in the seedling stage in March 2015 at the research facilities of CRIFC in Ankara.

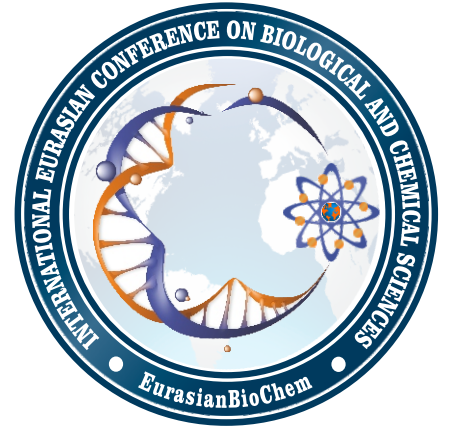
The test lines were planted in pots (7x7x9 cm), and plants were grown at 18±3°C. Materials were inoculated with suspension of urediniospores of *Pt* population (avirulent on *Lr9*, *Lr19*, *Lr24* and *Lr28*) in mineral oil (Soltrol 170®) at Zadoks growth stage 11-12. Following inoculation, seedlings were placed in a dew chamber overnight at 16±1°C and then transferred to greenhouse adjusted at 18±3°C. Reactions were scored according to 0-4 scale after 14 days.

Ten (38%) of bread wheat genotypes were found resistant to *Pt* population in seedling stage. To suggest, leaf rust resistant genotypes will be incorporated into the Turkish leaf rust resistance breeding program as potential sources of resistance this *Pt* population.

Key words: Bread Wheat (*Triticum aestivum*), leaf rust (*Puccinia triticina*), selection, reaction

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