

## عنوان مقاله:

Estimation of gene effects and combining ability of latent period of stripe rust in advanced lines of wheat

## محل انتشار:

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## خلاصه مقاله:

Four advanced breeding lines of wheat which had appeared to be resistant to stripe rust in the past years along with a susceptible variety, Bolani, were intercrossed in all combinations of a half-diallel design. Seedlings were grown in greenhouse until the first leaves fully expanded and then inoculated with two pathotypes (races)  $6E134A+$  and  $134E148A+$ , separately. Days to the first pustule eruption was recorded as latent period. Diallel analysis was performed by two methods of Griffing, and Jinks and Hayman.  $M-78-1$  and  $M-78-10$  were known as the best general combiners for longer latent period. Results of the analysis of variance of  $W_r+V_r$  and  $W_r-V_r$ ,  $W_r/V_r$  regression analysis and estimates of genetic parameters indicated the importance of both additive and non-additive gene effects. Broad-sense heritability was 98% for both pathotypes. Narrow-sense heritability was 65% and 80% for  $6E134A+$  and  $134E148A+$  pathotypes, respectively.

## کلمات کلیدی:

Stripe rust, wheat, Resistance, latent period

## لینک ثابت مقاله در پایگاه سیویلیکا:

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