

Genotype x Environment Interaction for Iron Concentration of Rice in Central Java of Indonesia

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Abstract	To explore the effect of genotype and genotype x environment interaction on Fe concentration in rice grains, Fe concentrations of 10 genotypes were analyzed across eight paddy field environments during 2007-2008 using the AMMI-biplot method. Experiments were conducted using a randomized completely block design with three replications in eight environments. Results indicated that environment (E), genotype (G) and genotype x environment interaction (GE) significantly affected Fe concentration in rice grains. Environment explained 74.43 % of total (G+ E+GE) variation, whereas G and GE captured 5.60% and 19.67%, respectively. Rice genotype Barumun was desirable in terms of the highest ability and stability for Fe concentration in rice grains. Environment in genotype Cilongok was the best representative of the overall environments and the most powerful to discriminate rice genotypes.
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