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Genotype x Environment Interaction of Palatability in Rice

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Abstract:
To develop cultivars with high and stable values of palatability in any growth environment, genotype x environment interaction of palatability in rice was statistically estimated from the replicated sensory test data. The following interactions of palatability were significant: genotype x year, genotype x cropping season, and genotype x storage duration. On the other hand, genotype x amount of fertilizer and genotype x soil type interaction of palatability were not significant. The results showed that varietal differences of palatability differed under different environmental conditions such as year, cropping season and storage duration. There was a cultivar which had high and stable values of palatability under different years, cropping seasons and storage duration conditions. For developing cultivars with high and stable values of palatability, it is efficient to estimate the palatability of rice grown under those environmental conditions in which genotype x environmental interactions were found.

Keywords:
Annual variation, cropping season, Genotype x environment interaction, Palatability, Rice, Sensory test, Stability, Storage duration

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