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Genetic Background of Highly Palatable Cultivars of Rice

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Abstract:

The genetic background of the highly palatable rice cultivars developed by Fukuoka Agr. Res.Cent.was studied and compared with the high yield cultivars developed by Kyushu Natl.Agr.Exp.Stn.and Miyazaki Agr.Exp.Stn.The coefficients of parentage between these cultivars and several major cultivars were computed.The highly palatable cultivars showed high values of coefficient of parentage with 'Koshihikari', a renowned highly palatable cultivar.The high-yield cultivars showed low values of coefficient of parentage with Koshihikari, while showing high values of coefficient of parentage with 'Shinrei', 'Toyotama', 'Hoyoku'and others, which used to be grown extensively in northern Kyushu and were believed to have wide adaptability there.These cultivars showed low values of coefficient of parentage with highly palatable cultivars.It was recommended to introduce the genes of the germplasm with wide adaptability to future highly palatable cultivars in order to avoid genetic vulnerability.

Keywords:

Coefficients of parentage, Genetic vulnerability, Palatability, Pedigree analysis

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