Subspecies Specific Microsatellite Markers in Recombinant Inbred Populations of Rice Crosses. (C07kim022151-Poster)

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Abstract:

The segregation pattern of subspecies specific microsatellite markers was investigated in the recombinant inbred F4 population of Japonica(J)/Tongiltype(T) rice cross, and in two BC1F4 populations of J/T//J and J/T//J crosses. Three segregation types were formed by 14 microsatellite primers in F4 population of J/T cross. The first type showed the segregation ratio of 1 J to 1 T in specific banding patterns, the second and third type yielded more plants having J and T bands, respectively. In BC1F4 populations, two segregation patterns were found in each cross. They were the group with more plants of J bands and the group segregated more plants of T bands both in J/T//J and J/T//T. The plants exhibiting J specific band segregated much more by RM258 among 14 primers used. BC1F4 plants of J/T//J were divided into 3 groups at 0.6 of similarity level. The first group showed J bands in most primers, the second and third group showed co-dominant and T bands in many primers, respective ly. In J/T//T cross, two groups were clearly divided at 0.5 of similarity level. The major group included most BC1F4 plants and the second group had only 7 plants showing J and co-dominant bands in many primers.

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