



# Agricultural Journals

*Czech Journal of*

## **GENETICS AND PLANT BREEDING**

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# **Czech J. Genet. Plant Breed.**

# **M., Špunar J.: Utilization of a molecular marker for evaluation of hybridization success in spring barley genetics and breeding**

Czech J. Genet. Plant Breed., 43 (2007):  
144-148

The success in hybridization of two-rowe spring barley genotypes of various origin was verified using the codominant SSR (Simple Sequence Repeat) marker HVWAXY which is located in the coding sequence of the waxy gene. The primer pair F 5' AAG ACG TGG TGT TCG TGT G 3' and R 5' ATG GTT CCA GGG GTA AGT TC 3' generated the PCR product of approximately 200 bp in the varieties/breeding lines Maridol, Bojos, Malz, Xanadu, Isotta, Josefin, Native, Sebastian, Conrad, KM 2436, KM 2439, KM 2629, KM-H-1320, whereas the product of about 250 bp was amplified in

the lines KM 2416 and Br 7571h33. The parental genotypes possessing different alleles of the marker were crossed and the segregating lines of the  $F_3$  generation were characterized employing molecular methods (marker-assisted selection). This prescreening enabled to work with a lower