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Czech J. Genet. Plant Breed.

Láng M.:

Detection of various U and M chromosomes in wheat-*Aegilops biuncialis* hybrids and derivatives using fluorescence *in situ* hybridisation and molecular markers

Czech J. Genet. Plant Breed., 48 (2012): 169-177

The aim of the study was to select wheat *Aegilops biuncialis* addition lines carrying *Aegilops biuncialis* chromosomes differing from those which were introgressed into the wheat-*Ae. biuncialis* addition lines produced earlier in Martonvásár, Hungary. In the course of the experiments new wheat-*Ae. biuncialis* addition lines carrying chromosomes 2Ub, 6Mb, 6Ub; 5Ub, 3Ub, 7Ub; 5Mb, 6Mb and 7Mb were selected. The 2Ub

disomic addition line is relatively stable, as 91% of the progenies contain this chromosome pair. The 6Mb disomic addition line proved to be dwarf and sterile, but it still exists as a monosomic addition line. Progenies analysed from the 6Ub monosomic addition line did not carry the 6Ub chromosome. One plant containing the 5Ub, 3Ub and 7Ub chromosomes and one plant carrying 5Mb, 6Mb and 7Mb chromosomes showed very low fertility. Each of the plants produced a single seed, but seeds of the parent plants are still available. Line No. 49/00 carried a submetacentric *Ae. biuncialis* chromosome pair and the chromosome number 44 has been constant for several generations. After FISH no hybridisation site was observed on the *Ae. biuncialis* chromosome pair using the pSc119.2 and Afa family repetitive DNA probes, so it was not possible to identify the *Ae. biuncialis*