

# Use of oilseed rape BAC library for identifying specific A and C genome markers

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*Brassica napus* L. (AACC, 2n=38) has a regular meiotic behavior and a disomic inheritance. Chromosome pairing has been described in oilseed rape haploids (AC, n=19) as well as in AC hybrids produced from crosses between the two progenitors, *B. rapa* L. (AA, 2n=20) and *B. oleracea* (CC, 2n=18). But there is no way to distinguish chromosome pairing due to autosyndesis within the same genome from allosyndesis due to pairing between genomes. In order to identify the nature of pairing, specific genome markers are needed. A part of the oilseed rape BAC library was hybridized with *B. rapa*, *B. oleracea* and *B. napus* genomic DNA. The different patterns observed and the *in situ* hybridization results on *B. rapa* L., *B. oleracea*, oilseed rape haploids and AC F<sub>1</sub> hybrids chromosomes will be presented.