



QTL Mapping using Intervarietal Substitution Lines in Rapeseed (Brassica napus L.)

By Nurhasanah

Cuvillier Verlag Nov 2010, 2010. Buch. Book Condition: Neu. 213x149x12 mm. Neuware - Intervarietal substitution lines (ISLs) having one or a few defined segments of a donor genome in the common genetic background of a recurrent parent can be used to search the genome for donor alleles affecting traits. A complementary set of substitution lines represents ideally the whole donor genome divided into a limited number of distinct segments, each carried by a different line. ISLs were suggested as an alternative to a segregating population for QTL mapping. An ISL population can be used to overcome the limitations of a segregating population in the accuracy of QTL localization. With overlapping donor segments in different substitution lines and their respective phenotypic values, QTL positions can be narrowed down to a few centimorgan (cM), allowing a high precision of QTL localization. The main objectives of this study were:- To develop set of intervarietal substitution lines (ISL) from the cross of 'Express' x resynthesized line 'RS239';- To map QTL for some agronomically important traits in two sets of ISL populations developed from the crosses of 'Mansholt' x 'Samourai' and 'Express' x resynthesized line 'RS239';- To compare QTL results mapped in the ISL population with...



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