

糖甜菜三体系列的建立与鉴定初报

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摘要 以双丰303品种(3x=27)为母本与双丰五号(2x=18)为父本进行杂交, 于其子代(F1)中获得糖甜菜三体606株。三体产生机率为33.5%。根据植株形态特征及有丝分裂晚期前期或前中期染色体形态特点, 鉴定出9种三体类型。按形态特征及附加染色体序号对各种三体类型命名如下: I, 辣根型(即附加的是第一号染色体, 以下类推); II, 长叶柄型; III, 萝卜型; IV, 窝芭型; V, 玻璃型; VI, 细长叶型; VII, 花叶型; VIII, 葡伏型; IX, 拟正常型。这是首次建成糖甜菜完整的初级三体系列, 并按染色体鉴定与命名的初步报道。同时讨论了一存在的问题及进一步研究的方向。

关键词

分类号

A Preliminary Report on Establishing and Identification of the Trisomic Series in Sugar Beets

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Abstract

The triploid Shuangfeng-303 (3x=27) as female parents were crossed with the diploid Shuangfeng-5 (2x=18) and 606 trisomie plants of sugar beets (*Beta vulgaris* L.) were obtained from the hybrids, The rate of the trisomic plants among the hybrids is 33.5%. 9 types of trisomics were successfully identified by the differences of plant morphologies as well as the chromosome features in late prophase or early metaphase of mitotic division. According to the plant morphologies and character of extrachromosomes, special names were given to the 9 types respectively as follows: (1) Horseradish type (Triplo-1, in the following axe analogues), (2) Long-petiole-type, (3) Radish-type, (4) Lettuce'-type, (5) Glass-type, (6) Slender-leaf-type, (7) Mosai-type, (8) Prost. ratetype., (9) Pseudonormal-type. It is the first time that a complete primary trisomic series in sugar beets was successfully established.

Key words

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