

A computer program for linkage analysis with up to 11 markers

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Abstract

In the establishment of linkage in *Aspergillus* by haploidization, master strains are used with markers in each linkage group.

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plates. First, the genotypes of the parental strains and the markers (exactly the first three characters) are put in. The data of the score table ('X' for mutant allele) are entered with the insert and the delete key of the numeric keypad to facilitate the input of data. It is possible to go through the score table with the cursor keys to correct data. When the data are compiled in a table of genotypes the program sorts, counts and compares the gene-combination with the parental genotypes. Subsequently for each pair of markers, the frequencies of the gene combinations and the recombinant percentage are presented in a table. It proved convenient to restrict the genotype table to 5 markers (32 genotypes). Other combinations can be compiled separately. Printer and disk output is possible. The program can be used both for generative analyses and for somatic analyses. It is available from us or from the Fungal Genetics Stock Center.

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In the establishment of linkage in Aspergillus by haploidization, master strains are used with markers in each linkage group. In such genetic analyses up to ten markers may be of interest. A program was developed for MS-DOS micro-computers to get through the results of the test