

3. Dwarfs and anther ears

Chromosome 1

Five anther-ear mutants from radiation have proven allelic to each other and two of these have been placed in chromosome 1. They have not been checked against an with which they may well be allelic. This allele test will be made in the coming year.

Chromosome 2

Two mutant dwarfs from Bikini material have been placed in chromosome 2 and also shown to be allelic. One arose in P51 sweet corn, the other in the single cross L289 x I 205. They showed a difference in appearance, which may however be merely the difference in background.

Chromosome 3

Three mutants from irradiation appear to be allelic and to be in chromosome 3. The appearance of the mutants and the linkage data suggest that they might be alleles of d_1 .

Chromosome 7

One small dwarf appeared in a progeny which could trace back to a Bikini source, but no dwarf had been observed earlier. It shows close linkage with a glossy which is probably gl_1 . It will require a few specific tests to clear up any doubts.

Chromosome 9

Six dwarf mutants have been placed in chromosome 9, fairly close to WX. Four of these have been shown to be allelic to each other. The remaining two are allelic to each other, but the allele tests with the first four are not adequate.

Chromosome 10

One anther-ear (an 6923) has been placed in the long arm of chromosome 10 in the general region of R.

E. G. Anderson