

1. Gamete factor on chromosome 9.

A gamete factor was found which shows close linkage with the waxy gene. In backcrosses of heterozygous  $Ga\ wx/ga\ Wx$  as the male to homozygous waxy plants, only 10% starchy kernels are obtained. Further testing of these  $B_1$  starchy kernels revealed that 30% of them are due to functioning of  $ga\ Wx$  pollen and 70% are crossovers. These data indicate that there is 3% functioning of  $ga$  pollen in competition with  $Ga$  and 7% crossing over between the  $Ga$  and  $Wx$  loci.