

MACDONALD COLLEGE OF MCGILL UNIVERSITY
Province of Quebec, Canada

1. golden-2.

The location of golden-2 is still in doubt (MGCNL 36:49 and 39:118). Further evidence that it is not near Bn on chromosome 7 where it is placed in some publications comes from the following data:

F ₁ genotype	Parental combina- tions	Recombinations						Total
		Region 1		Region 2		Regions 1 & 2		
Tp ij g2	173 118	43	50	134	120	41	38	717
+ + +	291	93		254		79		
	40.6%	13.0%		35.4%		11.0%		

The accepted map is $\frac{Tp \quad ij \quad Bn}{46 \quad 52 \quad 71}$ whereas these data show golden-2 to be 46 crossover units from iojap and this may well indicate independent assortment. On the other hand the amount of crossing over between Teopod and iojap in these data (24%) is three times the accepted map distance.

R. I. Brawn

UNIVERSITÀ DI MILANO
Milan, Italy
Istituto Di Genetica

1. Recombination in the long arm of abnormal chromosome 10.

The abnormal chromosome 10, carrying a large knob in its distal end (referred to as K10), is preferentially segregated during megasporogenesis. Rhoades (1942) found that it is the knob which is responsible for preferential segregation leading to the recovery of more than 70% of the ovules with the abnormal chromosome 10. He also reported that in K10 heterozygous stocks the percentage of recombination between R and the distal end is strongly reduced while in the R proximal region, marked with g, no corresponding decrease is observed.