

ADDITIONAL DATA FOR THE St-Bulf-Chi-6 LINKAGE

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Evidence reported earlier (4) showed that bulf was linked with markers on chromosome 3. The reported crosses were of the constitution St-Bulf-chi-6 x st-bulf-Chi-6, so that only two of the three genes tested were in the coupling phase. Results of a follow-up experiment involving a three-point coupling phase cross (Table 1) confirm and strengthen the earlier findings,

Table 1. F₂ segregation from coupling phase cross St-Bulf-Chi-6 x st-bulf-chi-6

Phenotypic class	Frequency	% Recombination			
		Present	1980	1973	
St Bulf Chi-6	251	St-Bulf	29.87	28,26	—
St Bulf chi-6	11	St-Chi-6	38.94	—	37
St bulf Chi-6	15	Bulf-Chi-6	9.07	7	—
St bulf chi-6	57				
st Bulf Chi-6	61				
st Bulf chi-6	2				
st bulf Chi-6	13				
st bulf chi-6	42				

A small F₂ from a three-point cross involving wel was also studied since wel is also known to reside in chromosome 3 (1,2,3). In this cross st and bulf were in coupling and Wel in repulsion viz. st_bulf Wel x St Bulf wel. Although the segregation data (Table 2) are too meager to give a reliable estimate of linkage intensity or to establish gene order, they agree with other findings obtained so far. No triple recessives (st-bulf-wel) were recovered to provide a source of a parent for a three-point coupling phase cross.

Table 2. F₂ segregation from the cross st_bulf Wel x St Bulf wel

Population	Phenotype	Frequency	% Recombination
C280-120-121	St Bulf Wel	45	St-Bulf 25.6
	St Bulf wel	30	St-Wel <15.0
	St bulf Wel	12	Bulf-Wel 27.3
	St bulf wel	3	
	st Bulf Wel	15	
	st Bulf wel	0	
	st bulf Wel	21	
	st bulf wel	0	
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1. Marx, G. A. 1971. PNL 3:18-19.
2. Marx, G. A. 1972. PNL 4:30-31
3. Marx, G. A. 1974. PNL 6:30-31
4. Marx, G. A. 1980. PNL 12:47-48.