

Culture	Type of chr. 10	Numbers of		Percent
		Altered K	Unchanged k	Altered K
-36	interstitial K10	1024	1027	50
-39	Trisomic-ring-10, K10, k10	687	656	51
-44	new knob ^o (5) *			
-49	new knob ^s (3) **	3195	2590	55
-51	ring-10			
-57	Trisomic-K10, k10 ring-10	755	865	47
-59	new altered chr. with the 3 prominent chromomeres and 4 $\frac{1}{2}$ distal chromomeres; shorter than K ^o .	1263	1003	53

* altered abnormal 10 without the heterochromatic segment; similar to knob ^o (1).

** altered abnormal 10 lacking about one-half of the heterochromatic segment; similar to knob ^s (1).

M. H. Emmerling

3. Further analysis of the $R^{\frac{B}{b}}$ non-crossovers.

A number of additional seed color mutants were analyzed to supplement the data of the $R^{\frac{B}{b}}$ non-crossovers reported in 1958 C. S. H. S. This was considered necessary because of the possibility that the frequency of the critical crossover class may have been exceedingly rare. The retests were made using the same $R^{\frac{B}{b}}$ non-crossovers as in the original experiment. The results to date are summarized below.

Culture	Non-crossovers		Crossovers	
	$r^{\frac{1}{2}}K$	$r^{\frac{B}{b}}k$	$r^{\frac{1}{2}}k$	$r^{\frac{B}{b}}K$
$R^{\frac{B}{b}}nco-2$				
1958 data	28	6	13	0
1959 data	1	0	3	0
Total	29	6	16	0
$R^{\frac{B}{b}}nco-3$				
1958 data	10	5	24	1
1959 data	2	3	13	0
Total	12	8	37	1
$R^{\frac{B}{b}}nco-4$				
1958 data	24	11	17	1
1959 data	7	0	1	1
Total	31	11	18	2

These results support the previous conclusion that (p) is deficient in non-crossovers 2, 3, and 4.

M. H. Emmerling