generations depleted the paramutagenic action of $\underline{R}^{\text{St}}$. The seed used in grading aleurone pigmentation ranged from 1 (coloress) to 7 (self-colored). There is no evidence from the results obtained, summarized in the evidence from the results obtained, summarized in the accompanying table, that continued heterozygosity for a paramutable \underline{R}^{T} reduces the paramutagenicity of $\underline{R}^{\text{St}}$.

Teques on	F	
paramutable R1 reduces the	No. plants tested	Mean aleurone color score
Male parent in testcross	7	6.43
$\underline{\mathbf{R}}^{\mathbf{r}} \ \underline{\mathbf{R}}^{\mathbf{r}} - \mathbf{stock}$	3	4.47
Rr Rst - Fl	7	4.08
Rr Rst - Bx 1 to Rr Rr	8	3.40
Rr Rst - Bx 2 to Rr Rr	16	3. 59
Rr Rst - Bx 3 to Rr Rr	10	
	_	A Brink

R. A. Brink

D. F. Brown

6. An unstable R allele from Bolivia.

A highly unstable R allele has been isolated from a colored aleurone strain of maize originally collected in Bolivia (Bolivia 724). The allele simulates Rmb in that coarse patches of pigment are normally observed in the aleurone following backcross to W22 A C r b pl stocks. Unlike Rmb, however, aleurone pigmentation Likewise ears vary varies in intensity within patches. in frequency of kernels with the spotted pattern. allele mutates with a relatively high frequency (approximately one per 100 kernels) to a form which produces dilute aleurone pigment uniformly distributed over the kernel. Apparently concomitant with the mutation of spotted to dilute aleurone is alteration of a plant color component at the R locus, since all 12 dilute kernels grown so far have produced mature plants with intensely pigmented leaves and stalks. Plants grown from sib spotted aleurone kernels were uniformly green.

J. Axtell G. R. K. Sastry