

2. White kernel with red embryo on red-white 1:1 ear.

Selfing the plant, derived from the above anomalous kernel, produced an ear with 3 red: 1 white kernels. The embryo hence was heterozygous red. The kernel with white endosperm and red embryo could have been produced by: (1) a mutation in the egg nucleus from r to R ; (2) by mutation in the male nucleus, which united with polar nuclei, from R to r ; or (3) the double fertilization of egg nucleus and polar nuclei could have been accomplished by male nuclei from different pollen tubes instead of from one pollen tube as is usual.

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