

Sample (22-25°)	Quartet Type			% C.O. Quartets
	Non-C. O.	C. O.	Total	
A	18	36	54	67
B	73	140	213	66
C	94	155	249	62
	185	331	516	64

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1. A small telocentric fragment.

During the course of an attempt to synthesize newer forms of altered abnormal chromosome 10, one B.C.-1 plant was found to possess, in addition to its normal complement, an extremely minute telocentric fragment. This chromosome consists of not more than two discernable chromomeres and thus can easily be mistaken for foreign matter. It is considerably easier to observe at late diakinesis and metaphase I. Unfortunately the origin of this centric fragment is unknown. Inasmuch as the semi-sterile F-1 plant was weak and runty, microsporo-cytes were not sampled.

A project has been initiated to study the behavior of this fragment chromosome and to determine whether any "major" genes are located in this piece of chromatin.

Gary Y. Kikudome

2. Comparison of two K10 chromosomes.

Cytological examination of plants heterozygous for the Longley-Rhoades type of abnormal chromosome 10 ( K10 ) and for Ting's ( K<sub>T</sub> 10 ) type has revealed that the latter is considerably shorter than the former. Furthermore, the knob on K<sub>T</sub> 10 is only about a third as large as that in K10. The following diagram should reveal the gross differences between these two forms of abnormal chromosome 10:

