

UNIVERSITY OF MELBOURNE
Melbourne, Australia
Botany School

1. Persistent nucleoli at the second pollen grain division.

In making preparations to study non-disjunction of B chromosomes at the 2nd pollen grain nuclear division, it was observed that, when B's were present, the nucleolus persisted through metaphase and dis-integrated across the spindle during anaphase. From 3 to 7 quite distinct pieces of nucleolus on the spindle were noted. Non-disjunction of the B's was also observed in this case when 2 B's were present.

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1. New characters.

teosinte branched (recessive)

The character we have been temporarily calling teosinte branched (many tillers plus slender branches at most of the nodes) has been tested with a series of interchanges marked by wx, su or pr. It shows linkage with T1-4a (1L.5-4S.7), using su as the marker. A separate test with su shows no close linkage, hence the gene is probably in chromosome 1.

dwarf S-3

This character is one originally produced by irradiation by Stadler. It shows linkage with T8-9 marked with wx.

C. R. Burnham

2. New linkage data.

+	W^C	+
bk	+	bm_4

A 3-point backcross test gave the following:

0	1	2	1,2	total
65-32	8-30	34-21	6-7	203

25.1% for region 1, and 33.5% for region 2.