2. Progress on big rings in corn.

Two rings of 10 were observed in F1 plants from crosses between stocks homozygous for interchanges involving 3-2-4-9-10 and 1-5-6-7-8. No pollen was shed, but open pollinated ears set 0 to 6 seeds (ears with about 600 ovules). Backcrosses were made to both parents as the first step in establishing a line homozygous for both groups of interchanges.

Lines homozygous for 3-2-4-8-6 were established also and crossed with a 5-7-1-9-10 stock.

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3. Chromosome 3 linkage test.

Tests between the W7748 albino and ba failed to give any indication of linkage.

C. R. Burnham

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4. Notes on the 2-6 interchanges.

We now have all but two of the 24 stocks listed plus two additional ones not listed. The following stocks listed as 2-6 interchanges in the 1961 Crops Research ARS 34-16 list of interchange break points are shown by linkage tests with Ig gl B V, not to involve chromosome 2;4394, 6671, and 5648. The break points for these which do not have the breaks in 6L as listed are: 2-6 (027-4): 2L.1-6 org.; 2-6e:2S.18-68.20; and 2-6 (5648): (not 2)-68.19.

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5. Notes on the functioning of Dp-Df classes from interchange heterozygotes involving chromosome 6.

The following interchanges when heterozygous give a ratio of about 1 partially sterile: 2 fertile through the $, probably a result of the functioning of one Dp-Df class:

<table>
<thead>
<tr>
<th>Interchange</th>
<th>Probable Df-Dp</th>
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</thead>
<tbody>
<tr>
<td>listed as 2-6 (4394) but does not involve 2</td>
<td>2S-6L</td>
</tr>
<tr>
<td>2-6 (001-15)</td>
<td>2S-6 sat.</td>
</tr>
</tbody>
</table>