monosomic stocks in some cases (tripsacum chromosome Tr 9 and Tr 7), or following nondisjunction in other cases (Tr 5 and Tr 13). We should identify such a bivalent for the $\underline{\text{Bm}}_2$ chromosome from $\underline{\text{Tripsacum}}$ in the crop to be grown during the summer of 1972.

From some 250 observations at pachytene often coursing around foldbacks, the length of the <u>Bm</u>₂ chromosome averaged 34.7 microns. In 10 observations, the position of its centromere was located and an arm ratio of 3.5:1 determined. A terminal knob on the long arm was observed.

On a basis of the above morphological features, this <u>Bm</u> chromosome was tentatively identified as chromosome Tr 3 in the complement of <u>T</u>.

<u>dactyloides</u>. The corresponding data from Chandravadana <u>et al</u>. (1971)

give Tr 3 an average length of 40.3 u, an arm ratio of 3.1:1 and a

terminal knob in the long arm. Their idiogram representing the original complement of the <u>T</u>. <u>dactyloides</u> used in these studies is the basis for identifications in subsequent items.

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6. Preliminary studies of a Tripsacum chromosome partially homoeologous to maize chromosome 6.

A chromosome from <u>T</u>. <u>dactyloides</u> carrying the <u>Py</u> locus and possibly the <u>Sm</u> locus in common with maize chromosome 6 but not the nucleolus organizer of this maize chromosome has been isolated. A different tripsacum chromosome, at the l6th position in its complement, carries the nucleolus organizer. Chromosome Tr l6 from tripsacum is still in the process of isolation (see next item). Nothing is known as yet of its gene content relative to that of maize.

Again preliminary measurements were made on the univalent in the absence of the bivalent condition and with recognition that eventual confirmation with data on the bivalent is necessary. From 27 observations at pachytene of the Py tripsacum chromosome from 4 plants, the length averaged 41.7 u. The centromere was located in 3 observations giving an arm ratio of 2.5:1. There is a terminal knob on the long arm. This tentative data on the univalent of the Py marked chromosome suggests the fourth position in the original complement of T. dactyloides.

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