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Research Notes: Linkage tests between the Ap and W1 loci

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1) Linkage tests between the Ap and W₁ loci.

The F₂ generation of the cross 'Williams' x 'Manchu (Madison)' was used to determine if the Ap and W₁ loci were linked. The Ap locus controls a seed acid phosphatase which exists in the germplasm in three different electrophoretic forms controlled by three codominant alleles—Apₐ, Apₐ, and Apₐ (Hildebrand et al., 1980). The W₁ locus controls flower color—purple (W₁) and white (w₁).

The W₁ genotype of F₂ individuals was determined by observing hypocotyl color of germinating seeds. Plants with purple hypocotyls have purple flowers. The Ap genotype was determined by electrophoresis (Hildebrand et al., 1980).


Table 1

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<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
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Reference


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