

3. Genetical Studies.

(A) Distribution of genes for aleurone color.- The analysis of several indigenous Mexican races, all crossed to the standard tester "Negrito", has been concluded. The results agree in a general way with those obtained earlier with Colombian races. Segregation for purple aleurone follows either a 3:1 or 9:7 ratio, with frequent changes in proportion of colorless from 25% up to 35% in the former and from 43% up to 60% in the latter, owing to dosage effects and incomplete dominance of the anthocyanin factors. The occurrence of a three factor segregation giving a 27-37 ratio cannot be excluded. Crosses with linkage testers have been started in order to identify the loci involved. The test has been extended now also to a South-American race, White Caingang Dent, and the F₂ ears obtained will be analyzed. They seem to confirm the results obtained earlier with the two other racial groups.

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