

3. Cytological studies on hybrid vigor.

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Two Brazilian dent and two flint inbred lines were crossed in all possible combinations and selfed. Samples of ovules before pollination and kernels 3, 6, 10, 15, 20 and 25 days after pollinations were harvested and fixed in F.A.A. Cytological studies are under way to investigate differences among reciprocal crosses in pericarp, endosperm and germ tissues. The growth of endosperm and germ nuclei are being compared in selfed and crossed ears.

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