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The Multinucleate Condition in Maize and its Probable Relation to the X Bodies Associated with Mosaic Diseases

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which have now run a number of years show that moisture is not necessary for hard seeds to become permeable. The change from hardness to a condition of permeability depends upon the fluctuation of temperature over a relatively long period of time. Seeds stored where the temperature fluctuates as in unheated sheds tend to become permeable each spring and if stored over a period of years under such conditions probably lose much vitality because of their becoming permeable. Stored in a constant temperature the seeds remain hard.

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THE MULTINUCLEATE CONDITION IN MAIZE AND
ITS PROBABLE RELATION TO THE X BODIES
ASSOCIATED WITH MOSAIC DISEASES

JOHN N. MARTIN

In the stems of developing maize plants and in the young leaves two to several bodies resembling nuclei are commonly present in the majority of the cells. These bodies vary much in shape and size in the same cells. Some of them are similar to the x bodies described in maize and sugar cane affected with a mosaic disease. These bodies are prevalent in corn that is apparently healthy.

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