

2. A new type of chromosome 9 in Italian maize*.

On the long arm of chromosome 9 a characteristic long shaped knob has been repeatedly found, in the position which has been reported as typical for the presence, in some cases, of a prominent chromomere. Such a type has been detected only in "Nostrano dell'Isola," a variety of special interest from the point of view of its origin and evolution, among Italian maizes, according to an oral communication of Drs. Brandolini and Wellhausen.

The finding is a part of the cytological survey of the pachytene chromosomes of Italian maize, which is being undertaken in cooperation with the Maize Breeding Station of Bergamo.

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3. Mendelian characters in Italian maize*.

Self pollination has been carried out in plants of about 90 samples of Italian maize kindly provided by "Stazione di Maiscoltura di Bergamo."

The following mutants have been obtained in a total of 547 selfed ears:

Character	No. of cases exhibiting a ratio of	
	3:1	15:1
Defective seed	18	
Small seed	1	
Amylaceous seed	1	
Lemon endosperm	1	
Sugary endosperm	1	
Albino seedling	5	2
Dwarf seedling	6	
Seedling color (booster, etc.)	28	3
Luteus seedling	3	
Yellow green seedling	8	
Pale green seedling	8	2
Fine stripe seedling	5	
Glossy seedling	18	2
Abnormal growth	1	2
Virescent	10	3
Yellow stripe	1	1
Albescent		1
Japonica seedling	1	1
Virescent fine stripe	2	
Green mottling seedling	1	

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