

6. Deficiency - duplication studies.

Genetic evidence for an intercalary deficiency was found in the progeny of the cross (T1-9a x T1-9c) x *argentina* (*ar ar*). From a total of 1625 plants grown, 207 plants were observed showing the *ar* phenotype. Also in the cross (T1-9a x T1-9c) x T1-9c x *ar ar*, 127 *ar* plants were observed in a total of 577 plants grown and from the cross (T1-9a, x T1-9c) x T1-9a x *ar ar*, 14 *ar* plants were observed from 77 plants grown. In sporocytes taken from plants of the cross T1-9a x T1-9c, 10 bivalents were observed at diakinesis. Folded loops were observed on chromosome 1 and open loops were observed on chromosome 9 at pachytene.

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