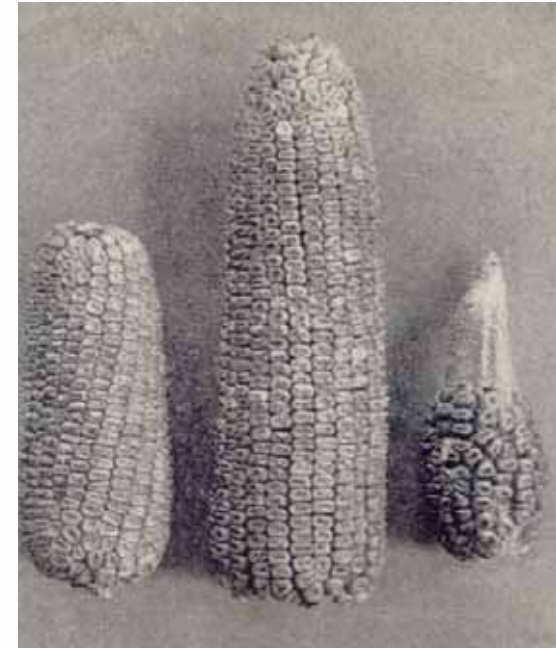


# *The magic of heterosis*



# *The Hebrew University of Jerusalem*



הקרן הלאומית למדע



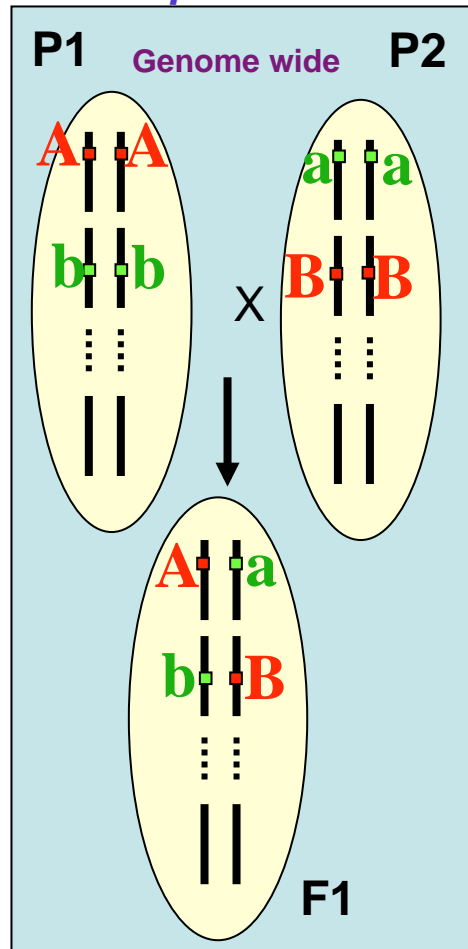
eusol

# Models for the genetic basis of heterosis

P1 X P2  
↓

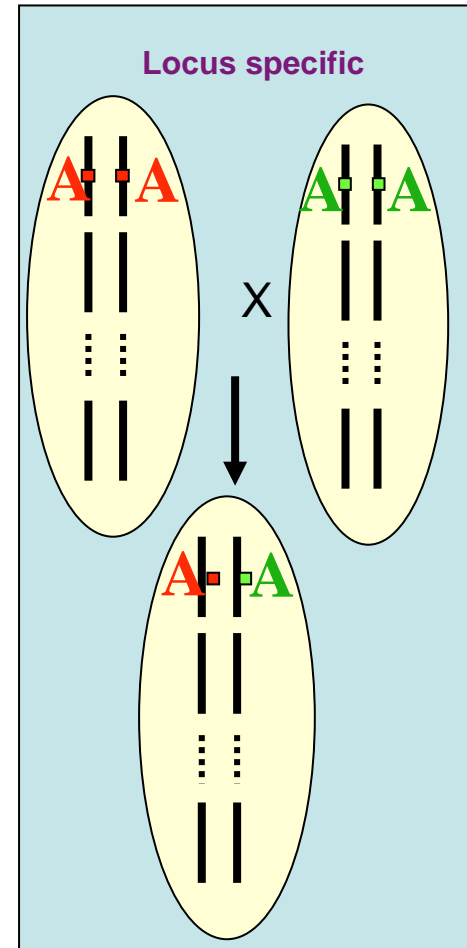
A heterotic F1 hybrid - better than both its parents

## *Dominance complementation*



Bruce 1910

## *True - Overdominance*



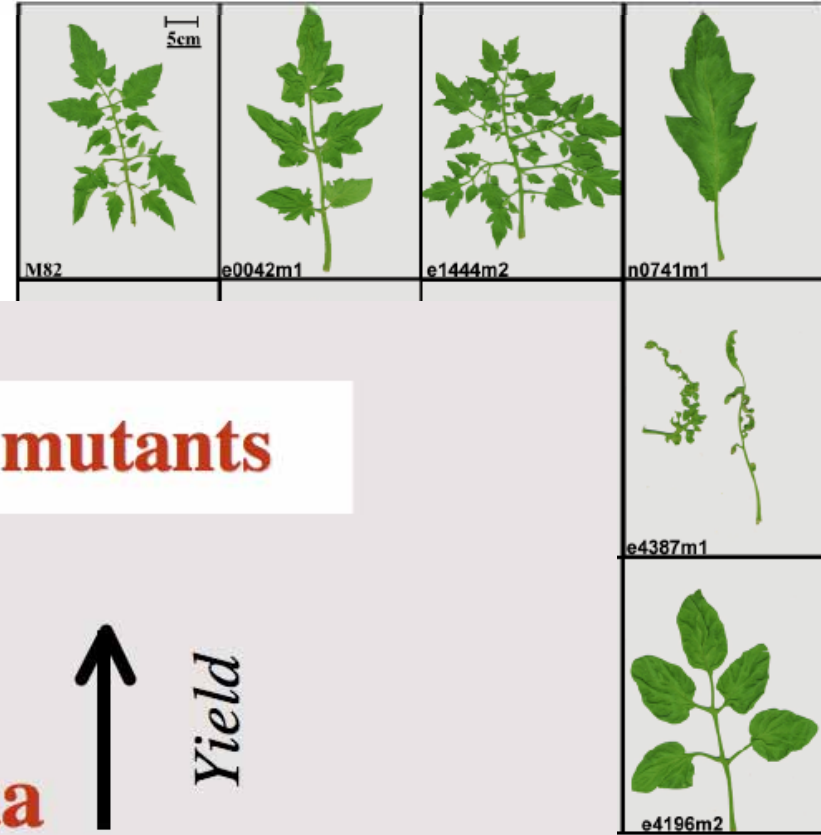
Shull 1908/East 1908



# Genes that Make Tomatoes

15,000 M2 families --> 3500 Mutations

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## Heretotic mutants

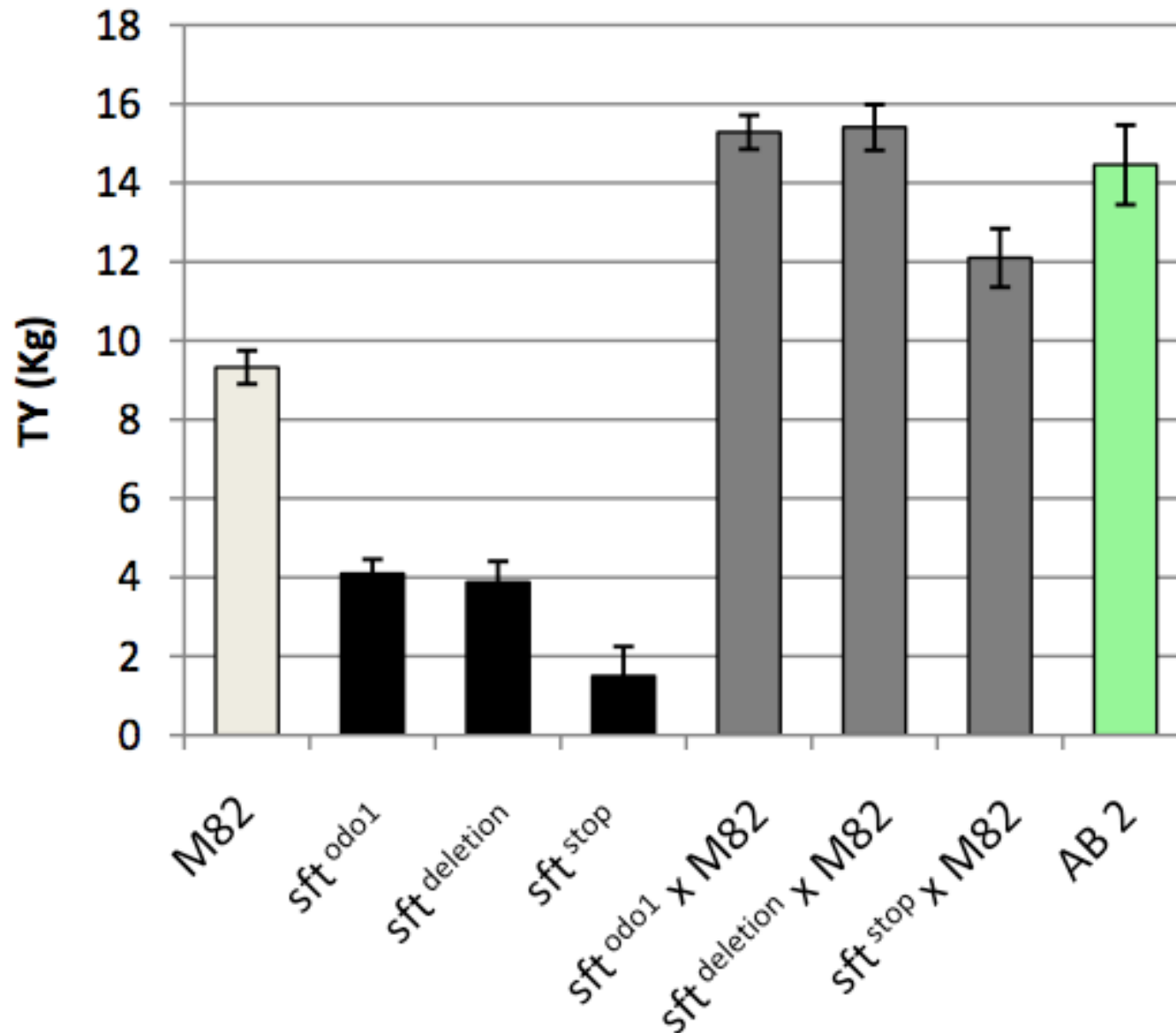


Redei GP (1962) Single locus heterosis, Z. Vererbungsl. 93:164



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## Single gene heterosis in *sft*/+ heterozygotes is independent of mutant allele



# A flow chart describing the experimental ODO breeding method

