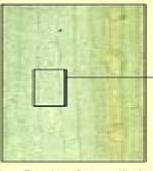
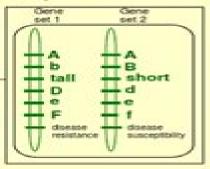
Doubled Haploids in Plant Breeding

What is a doubled haploid plant?

Cells are the building blocks of plants.



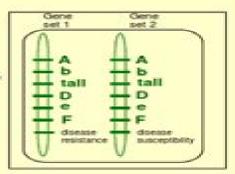




A doubled haploid plant has cells containing 2 gene sets which are exactly identical.

If one gene set has the disease resistance gene, so will the other.





Each cell contains 2 sets of genetic information which are almost (but not exactly) identical.

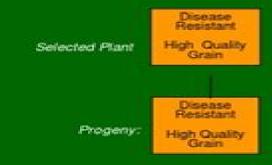
For example, one gene set may carry a gene for disease resistance when the other set does not.

How do doubled haploids accelerate breeding?

Plants selected from a conventional breeding population do not breed true.

Selected Plant

Disease Resistant High Quality Grain Plants selected from a doubled haploid breeding population always breed true.



This attribute of doubled haploids allows new cultivars to be released 3 to 5 years earlier than with conventional breeding.

Disease Resistant High Quality Grain

Disease Resistant Poor Quality Grain

DISCARD

Disease Susceptible High Quality Grain

DISCARD

Disease Susceptible Poor Quality Grain

DISCARD

Progeny: Disease Resistant High Quality Grain

Progeny:

Disease Resistant Poor Quality Grain

DISCARD

Disease Susceptible High Quality Grain

Susceptible Poor Quality Grain

Disease

DISCARD

DISCARD

SELECT

Disease

Haploids In Plant Breeding

M Planty

Haploids In Plant Breeding:

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