

NAME _____

DATE _____

Mendelian Genetics of Corn Kit

Objectives

In this laboratory, you will

- use corn to study genetic crosses.
- recognize contrasting phenotypes.
- collect data from F_2 ears of corn, and analyze the results from monohybrid and dihybrid crosses.
- study dominance, segregation, and independent assortment of alleles in corn.
- compare predicted results with results obtained from actual data.

At the completion of this laboratory, you should be able to

- collect and organize data from genetic crosses
- analyze the data using Chi-square analysis techniques
- predict patterns of inheritance given relevant data

Introduction

Zea mays, commonly called corn in the United States, is one of the world's most important food crops. Because of its economic importance, the genetics of corn has been studied extensively.

In sexual reproduction, two gametes fuse, bringing together homologous chromosomes from both parents. Corn has 10 pairs of chromosomes. These chromosomes are numbered 1, 2, 3, etc. One member of the pair is inherited from the "male" parent and the other is inherited from the "female" parent. For example, on Chromosome 2, there is a gene for plant height, and there are two forms or alleles of this gene, D_y , a dominant allele for normal height, and d_y , a recessive allele for dwarf height. If both alleles on Chromosome pair 2 are for normal height (D_y/D_y), the phenotype (appearance or form observed) is normal height and the genotype is homozygous normal height. If the two alleles are different (D_y/d_y), the phenotype is normal height and the genotype is heterozygous normal height. If the two alleles are for dwarf height (d_y/d_y), the phenotype is dwarf height and the genotype is homozygous dwarf height or simply homozygous recessive.

Given this information, we can now diagram and predict the results of crossing a homozygous normal height corn with a homozygous dwarf variety of corn.

P	D_y/D_y	×	d_y/d_y
Gametes	D_y		d_y
F_1	D_y/d_y		

Corn Genetics Student Guide

Theodorus Ruys



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