

Mendelian Genetics of Corn

Objectives

In this laboratory, you will

- use corn to study genetic crosses
- recognize contrasting phenotypes
- collect data from F_2 ears of corn, and analyse 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

Required Knowledge

Before beginning this laboratory, you should understand

- meiosis
- the chromosomal theory of heredity
- the basics of Mendelian Genetics
- the use of Punnett Squares
- Chi-square analysis of data
- the life cycle of organisms useful in genetics studies

Expectations

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

- collect and organize data from genetic crosses
- analyse 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_5 , a dominant allele for normal height, and d_5 , a recessive allele for dwarf height. If both alleles on Chromosome pair 2 are for normal height (D_5/D_5), the phenotype (appearance or form observed) is normal height and the genotype is homozygous normal height. If the two alleles are different (D_5/d_5), the phenotype is normal height and the genotype is heterozygous normal height. If the two alleles are for dwarf height (d_5/d_5), the phenotype is dwarf height and the genotype is homozygous dwarf height or simply homozygous recessive.

2008 Carolina Biological Supply Company Student Guide

Acid Rain Lab

Padhraic Smyth



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