

Mendelian Genetics

Mendel suggested heredity resulted in:

Darwin and Wallace subscribed to theory of:

What is the chromosomal theory of inheritance?

How is diploid organisms DNA formed?

Brain dump the correlation between chromosomes and Mendels 3 postulates.

What are the criteria for homologous pairs of chromosomes?

What is the sum law?

What is a chi square analysis? What is chance deviation?

List the two factors that can predict gene outcomes:

What is a null hypothesis? What is an alternative hypothesis?

How do we calculate degrees of freedom? If you were given 4 possible outcomes, what would be the degree of freedom?

Using the degrees of freedom calculated above, what is the chi value if you calculated a P value of 0.598?

Complete a chi square analysis using the following information:

A scientist completed an experiment and concluded that 345 of her plants were tall and yellow, 110 were tall and green, 99 were dwarf and yellow, and 37 were dwarf and green. Does this fit Mendel's 9:3:3:1 ratio?

