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Extensions of Mendelian Genetics

Outline/Study Guide

Broader course objective

Explain more complex modes of inheritance and how this influences the inheritance and expression of genes; use this information in predicting genetic outcomes and the analysis of genetic data

Necessary for Labs--Patterns of Inheritance in Maize, Blood typing.

Lecture outline/study guide

- Other factors that can change ideal Mendelian ratios
 - How can lethality affect the ratios of the remaining genotypes/phenotypes in Mendelian segregation?
 - What is the difference between "penetrance" and "expressivity"?
 - What is incomplete dominance? Co-dominance? What examples of each might you be able to give?
- What is an "allelic series"?
- Epistasis--two (or more) genes can interact to affect one phenotype (e.g. color of peppers).
 - When is a gene interaction considered "epistatic"?
 - What is the difference between the epistatic gene and the hypostatic gene?
- What is the difference between "epistatic" vs. "dominant"?

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