

EXERCISE 11 – MENDELIAN GENETICS PROBLEMS

These problems are divided into subdivisions composed of problems that require application of a specific genetic principle. These problems are intended to complement the lecture portion of this course; specifically, the material described in lecture is to be applied to solve these problems. The answers are provided in Appendix A. You are strongly advised against consulting this appendix before you have made a serious attempt to answer a problem.

A. Monohybrid Crosses

1. In *Colerus*, some plants have shallowly crenated edges and others have deeply incised leaves. A cross is made between homozygous deep and shallow individuals. The shallow trait is dominant.
 - a. Using *S* and *s* to symbolize the genes for this trait, give the phenotypic and genotypic ratios for the F_1 generation.
 - b. If self pollination is allowed, what is the phenotypic ratio for the F_2 generation?
2.
 - a. In a pea plant that breeds true for tall, what possible gametes can be produced? Use the symbol *D* for tall, *d* for dwarf.
 - b. In a pea plant that breeds true for dwarf, what possible gametes will be produced?
 - c. What will be the genotype of F_1 offspring from a cross between these two types?
 - d. Assuming that the allele for tall is dominant, what will be the phenotype of F_1 offspring from a cross between these two types?
 - e. What will be the probable distribution of traits in the F_2 generation? (Illustrate with a Punnett square).
3. The ability to taste a bitter chemical, phenylthiocarbamide (PTC), is due to a dominant gene. Use *T* and *t* to symbolize the two alleles of this gene.
 - a. What is the genotype of a nontaster? What are the possible genotypes of a taster?
 - b. Could a person with two tasters as parents be a non-taster? How?
4. A woman heterozygous for polydactyly (extra fingers and toes), a dominant trait, is married to a normal man. What is the probability of producing an offspring that has extra fingers or toes?
5. Parents who do not have Tay Sachs disease produce a child who has this terrible affliction. What are the chances that each child born of this union will be affected?
6. In human beings, ability to curl the tongue into a U-shaped trough is a heritable trait. "Curlers" always have at least one curler parent, but "noncurlers" may occur in families where one or both parents are curlers. Using *C* and *c* to symbolize this trait, what is the genotype of a noncurler?

Exercise 11 Mendelian Genetics Problems

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Exercise 11 Mendelian Genetics Problems:

Exercise 11 Mendelian Genetics Problems Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Exercise 11 Mendelian Genetics Problems**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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