

Lab 11

HEREDITY AND MENDELIAN GENETICS

Monohybrid Problems with Complete Dominance

1. For each of the following diploid genotypes, indicate the possible genotypes of the gametes.

Diploid genotype	Gamete genotype
FF	<u>F</u>
ff	<u>f</u>
Ff	<u>F</u> & <u>f</u>

2. During fertilization, two gamete nuclei fuse, and the diploid condition is restored. Give the diploid genotype produced by fusion of the following gamete genotypes.

Gamete genotype X Gamete genotype	→	Diploid genotype
<u>f</u>	<u>f</u>	<u>ff</u>
<u>F</u>	<u>f</u>	<u>Ff</u>
<u>F</u>	<u>F</u>	<u>FF</u>

3. Free (F) and attached (f) earlobes
- Suppose a man has the genotype FF. What is the genotype of his gamete (sperm) nuclei? F
 - Suppose a woman has attached earlobes. What is her genotype? ff
 - What allele(s) does her gametes (ova) carry? f
 - These two individuals produce a child. Show the genotype of the child by doing the cross: FF
 Sperm genotype F x Ovum Genotype f
 Child Genotype Ff 100%
 - What is the phenotype of the child? (That is, does this child have attached or free earlobes?)
4. In garden peas, purple flowers are dominant over white flowers. Let *R* represent the allele for purple flowers, *r* the allele for white flowers.
- What is the phenotype (color) of the flowers with the following genotypes:

Diploid genotype	Gamete genotype
<u>RR</u>	<u>R</u>
<u>rr</u>	<u>r</u>
<u>Rr</u>	<u>R</u> & <u>r</u>

Exercise 11 Mendelian Genetics Answers

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