

## 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 |
|-----------------------------------|---|------------------|
| f                                 | f | <u>ff</u>        |
| F                                 | f | <u>Ff</u>        |
| F                                 | F | <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     |
|------------------|---------------------|
| RR               | <u>R</u>            |
| rr               | <u>r</u>            |
| Rr               | <u>R</u> & <u>r</u> |

# Mendelian Genetics Lab Answers

**Marcel A. Müller**



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