



# 14 mendelian genetics

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|  |   |
|--|---|
| who discovered heredity  | gregor mendel   |
| what is heredity   | how traits are passed from one gen to the next  |
| how did mendel discover heredity                                     | garden peas   |
| genotype   | genetic makeup or allelic combination   |
| phenotype  | physical appearance based on the genotype   |
| homozygote   | having 2 of the same alleles for a gene   |
| heterozygote   | having 2 diff alleles for a gene  |
| dominant   | allele that over powers or masks a recessive allele   |
| recessive  | allele that phenotypically appears only if 2 copies present   |
| gametes  | sperm/egg   |
| what does a monohybrid cross study                                   | one trait   |
| what are the steps of a monohybrid cross                             | <ol style="list-style-type: none"> <li>1. tall + dwarf varieties cross-fertilized</li> <li>2. all hybrid progeny are tall</li> <li>3. hybrid progeny are self-fert</li> <li>4. tall + dwarf appear in 3:1 ratio</li> </ol>  |
| what are inheritable factors   | genes   |
| what are character variants  | alleles   |
| what are mendels principles  | <ol style="list-style-type: none"> <li>1. principle of dominance</li> <li>2. principle of segregation</li> <li>3. principle of independent assortment</li> </ol>  |
| what is principle of dominance                                       | if the 2 alleles at a locus differ, the dominant allele determines appearance<br>- recessive allele doesn't affect appearance   |
| what is principle of segregation                                     | the 2 alleles for a heritable character segregate during gamete formation<br>= they end up in diff gametes  |
| what is principle of independent assortment                          | alleles of diff genes segregate independently of each other   |
| what are the exceptions to mendels principles                        | <ol style="list-style-type: none"> <li>1. linkage</li> <li>2. incomplete dominance</li> <li>3. co-dominance</li> <li>4. multiple alleles</li> <li>5. polygenic inheritance</li> </ol>   |
| what is a punnett square used for                                    | determine genotypic + phenotypic probabilities  |
| how to use punnett square  | <ol style="list-style-type: none"> <li>1. determ parental gametes</li> <li>2. male gametes on top, female gametes on left side</li> <li>3. determine offspring genotype</li> <li>4. determ genotype/phenotype ratios</li> </ol>   |
| what are the 4 possible birth orders for 3 unaffected and 1 affected | UUUA<br>UUAU<br>UAUU<br>AUUU  |
| what are the criteria for autosomal dominant trait                   | <ul style="list-style-type: none"> <li>- manifests itself in the heterozygote</li> <li>- equally represented in males and females</li> <li>- vertical inheritance<br/>(transmission from parent to offspring)</li> <li>- affected parents have atleast 50% chance their offspring will be affected</li> </ul> |
| what is polydactylism  | autosomal dom.<br>indiv has extra digit or digits on hands or feet  |
| features of poly   | <ul style="list-style-type: none"> <li>- incomplete penetrance</li> <li>- the dom allele doesn't always show up as a phenotype</li> </ul>   |

# Mendelian Genetics Study Guide

**Rowland H. Davis, Stephen J.  
Weller, John P. Carulli**

## **Mendelian Genetics Study Guide:**

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