
Chapter 17 Mendelian Patterns of Inheritance

17.1 Mendel's Laws of Inheritance

1. List the advantages of using the garden pea to study inheritance.

- **Gregor Mendel - father of genetics**
 - curious about how traits were transferred from one generation to the next.
 - statistical analysis of garden pea plant breeding experiments
- **Mendelian genetics - genetic traits that follow the rules of inheritance that mendel proposed**
- **true-breeding lines - all look same after several generations of self fertilization**
- **cross-fertilization - breed plants that differ in one gene**
- **hybridization -breed plants that differ in one gene**
- **gene - unit of heredity; character; flower color**
- **allele -trait; purple or white**
- **self-fertilization - all look same after several generations**

2. Describe the difference between dominant & recessive traits.

- **P generation - true breeding parents**
- **F1 generation - offspring of P cross; monohybrids**
- **F2 generation - self fertilizes**
- **homologous chromosomes - alleles that inhabit these homologous loci**
- **gamete - circle on outside of the alleles produced by the individual**
- **diploid - paired chromosomes**
- **haploid - each have haploid sperm & egg receives only allele**
- **single-factor cross - tall X dwarf**
- **gene - individual has 2 alleles for each; one letter from each parent**
- **allele - exist in 2 forms: dominant and recessive**
- **haploid - one copy of each chromosome**
- **gamete - ovum and sperm cells**

3. Distinguish between genotype & phenotype.

- **genotype - genetic composition of individual**
- **phenotype - what you see PP & Pp purple; pp white**
- **homozygous dominant - PP**
- **homozygous recessive - pp**
- **heterozygous - a cross between two heterozygotes**
- **diploid - paired chromosomes**
- **haploid - one copy of each chromosome**

4. CoreSKILLS ➤ Predict the outcome of genetic crosses using a Punnett square.

- **PP x pp - Pp 100%**

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