

LAB 9: MENDELIAN GENETICS

Genetic Inheritance of Traits

- ◆ **Genetics**-is the study of hereditary transmission and variation
- ◆ Gregor Mendel is considered the "father of genetics", yet he didn't know about chromosomes, genes or DNA
 - ONLY KNEW traits were passed onto offspring
- ◆ **What we know**
 - Hereditary information is encoded in GENES
 - Sequences of DNA code for a single pattern
 - Chromosomes are long strands of DNA containing hundreds or thousands of genes
 - Mitosis produces exact copies of diploid cells
 - Meiosis reduces diploid cells to haploid cells & results in the production of gametes
 - Homologous chromosomes are chromosomes that we get from both mom and dad
 - Alleles are different forms of genes
- ◆ **Two Laws of Chromosomal arrangement in gamete**
 - 1. Law of Segregation
 - During production of gametes two variations (alleles) of one gene **segregate** so that offspring acquire one allele from each parent during meiosis (Anaphase 1), allowing for predictable ratios of traits in the offspring
 - 2. Law of Independent Assortment
 - When 2 or more genes (traits) are inherited, the alleles of those different genes assort **independently** into gametes
 - Allele that a gamete received for another gene
 - ◆ You can determine this by using these two laws
 - 1. The ratio of different gametes any given genotype can produce
 - 2. The ratio of offspring genotypes and phenotypes produced by the cross of any two individuals

ALLELES & GENES

- ◆ Genes are portion of DNA, and they have the ability to code for a characteristic -traits
 - Many traits are coded by interactions of more than one gene
- ◆ Human have 46 chromosomes
 - Chromosomes are made up of DNA and Protein --condensed unit of DNA
 - Genetic code represented by chromosomes
 - You inherit 23 chromosomes from your mother and 23 from your father
- ◆ Each parent contributes and allele- a variant of a gene
 - Alleles could be the same form of the gene or different forms of the gene

Biology 155 Mendelian Genetics Answers

J Spring



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