

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

Yijin Wang



Biology 155 Mendelian Genetics Answers:

Reviewing **Biology 155 Mendelian Genetics Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Biology 155 Mendelian Genetics Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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