

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
- ❖ Humans 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 an allele- a variant of a gene
 - Alleles could be the same form of the gene or different forms of the gene

Lab 9 Mendelian Genetics Answers

Routh



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Kaplan AP Biology 2016 Linda Brooke Stabler, Mark Metz, Allison Wilkes, 2015-08-04 The Advanced Placement exam preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies practice and review to help students ace the NEW AP Biology exam Students spend the school year preparing for the AP Biology exam Now it s time to reap the rewards money saving college credit advanced placement or an admissions edge However achieving a top score on the AP Biology exam requires more than knowing the material students need to get comfortable with the test format itself prepare for pitfalls and arm themselves with foolproof strategies That s where the Kaplan plan has the clear advantage Kaplan s AP Biology 2016 has been updated for the NEW exam and contains many essential and unique features to improve test scores including 2 full length practice tests and a full length diagnostic test to identify target areas for score improvement Detailed answer explanations Tips and strategies for scoring higher from expert AP teachers and students who scored a perfect 5 on the exam End of chapter quizzes Targeted review of the most up to date content and key information organized by Big Idea that is specific to the revised AP Biology exam Kaplan s AP Biology 2016 provides students with everything they need to improve their scores guaranteed Kaplan s Higher Score guarantee provides security that no other test preparation guide on the market can match Kaplan has helped more than three million students to prepare for standardized tests We invest more than 4 5 million annually in research and support for our products We know that our test taking techniques and strategies work and our materials are completely up to date for the NEW AP Biology exam Kaplan s AP Biology 2016 is the must have preparation tool for every student looking to do better on the NEW AP Biology test **40**

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Sylvia S. Mader, 2000-07 Mader includes revised coverage of animal behaviour and ecology as well as a wealth of new focus

boxes which highlight topics of high interest and relate biology to everyday life This text is linked to a web site offering extended chapter outlines

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Twentieth Century Mouse Genetics Robert P. Erickson, 2021-08-26 Twentieth Century Mouse Genetics A Historical and Scientific Review provides a comprehensive examination of key advances in mouse genetics throughout the 20th century Here Dr Robert P Erickson a leader in the field identifies the contributions of historic mouse genetics studies and how those approaches and early discoveries are still shaping human genetics research and medical genetics today In addition to historical overviews the author provides researcher biographies and updates connecting historic research to ongoing advances Past studies discussed use the T t complex as an example and include the origins of mouse genetics the synthesis of genetics and evolution cytogenetics and gene mapping population genetics and mutation research immunogenetics reproductive genetics molecular cloning X inactivation and epigenetics sex determination and pharmacogenetics Here researchers students and clinicians will find fresh inspiration to engage in human genetics research employing mouse models and to translate those findings to clinical practice Offers a comprehensive examination of key advances in mouse genetics throughout the 20th century Includes updates connecting historic research to ongoing advances Authored by a thought leader in the field

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