

Lab 5: Mendelian Genetics

Name:

Introduction

Most inherited human characteristics result from the interaction of a number of genes, or portions of a DNA molecule that code for traits. When a gene is used we say it is expressed. Most genes have more than one variant or allele present in a population. We will examine some traits that are controlled by only one pair of genes. The inheritance of these traits is easily determined because they have only two types of alleles, a dominant or a recessive. A **dominant** trait will be expressed even if only exists in the pair. A **recessive** trait will only be expressed if both genes in the homologous pair are recessive.

Your **phenotype** is what can be seen, tested, or measured. It is what we can see on the outside, what is being expressed. Your **genotype** is what is actually coded on your genes (the alleles you have). Knowing your phenotype may or may not let you determine your genotype. For an example trait, consider human ear lobes. Some people have ear lobes attached to their head, and other people have ear lobes that hang free below the ear. The "attached" allele is recessive (we'll call the "attached" allele "e"), and the "free" allele is dominant over the "attached" allele (we'll call the "free" allele "E"). People who have attached earlobes must have the genotype **ee** (meaning they got one recessive **e** allele from each parent), since they would have free earlobes if they had even one dominant **E** allele. People with free earlobes could have the genotype **EE** or **Ee**, both of which lead to the same appearance in ears. So, someone with free earlobes would denote their genotype as "**EE** or **Ee**", or as "**E__**".

A **Punnett Square** is a helpful tool that helps to predict the variations and probabilities that can come from cross breeding. This includes predicting crossing plants, animals, even humans with each other. Typically, Punnett Squares are used with Mendelian Inheritance: Mendel was the scientist who helped pioneer genetics and give us our basic, fundamental understanding of how traits work.

Key Terms:

- **Genotype:** The genetic makeup of the organism, what you can find when you look at the DNA
- **Phenotype:** The physical makeup of the organism, the characteristics you can see
 - Note: Genotype and Phenotype are not the same! What you see with the phenotype maybe different in the genotype, that's why the Punnett is important to see that!
- **Homozygous:** When both alleles are the same type, either both dominant or both recessive
- **Heterozygous:** When the alleles differ in type, with one being dominant and one being recessive. Dominant alleles will almost always mask recessive alleles.
- **Dominant allele:** The trait that has a higher probability of occurring and more likely to be seen
- **Recessive allele:** The trait that has a lower probability and may not be seen physically

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Artificial Intelligence in the Clinical Laboratory: Current Practice and Emerging Opportunities, An Issue of the Clinics in Laboratory Medicine, E-Book Jason Baron, 2023-02-10 In this issue guest editors bring their considerable expertise to this important topic Provides in depth reviews on the latest updates in the field providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize

40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

Biology Sylvia S. Mader, 2003-07 Aims to help students develop critical and creative reasoning skills in investigating science This manual provides step by step procedures and hands on activities to help students learn the concepts of biology It covers the entire field of general biology

The Saunders General Biology Laboratory Manual, 1990 Carolyn Eberhard, 1989-12 *McGraw-Hill's SAT Subject Test Biology E/M, 3rd Edition* Stephanie Zinn, 2012-02-03 Expert guidance on the Biology E M exam Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects McGraw Hill's SAT Subject Test Biology E M is written by experts in the field and gives you the guidance you need perform at your best This book includes 4 full length sample tests updated for the latest test formats two practice Biology E exams and two practice Biology M exams 30 top tips to remember for test day Glossary of tested biology terms How to decide whether to take Biology E or Biology M Diagnostic test to pinpoint strengths and weaknesses Sample exams exercises and problems designed to match the real tests in content and level of difficulty Step by step review of all topics covered on the two exams In depth coverage of the laboratory experiment questions that are a major part of the test

Investigating Biology Judith G. Morgan, 1999 With its distinctive investigative approach to learning this effective laboratory manual encourages readers to become detectives of science While teaching the basic materials and procedures important for all biology majors to learn the authors also invite readers to pose hypotheses make predictions conduct open ended experiments collect data and then apply the results to new problems The result of this process of science approach is that readers learn to think creatively just as scientists do Laboratory exercises are divided into three categories directed thematic and open ended For college instructors and students

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Contributions from the Laboratory of Plant Genetics Bussey Institution. Laboratory of Genetics, 1919

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Concepts and Applications Joy B. Perry,1992 *Biology Laboratory Manual* 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 Laboratory & Field Work in General Botany Edgar Nelson Transeau,Homer Cleveland Sampson,1924 *Bridging School and University* M. Cantrell,1993 *Laboratory Manual Inquiry into Life* Sylvia S. Mader, *Henry's Clinical Diagnosis and Management by Laboratory Methods: First South Asia Edition E-book* Richard A. McPherson,2016-08-31 To interpret the laboratory results To distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study The book attempts to train a laboratory medicine student to achieve sound knowledge of analytical methods and quality control practices to interpret the laboratory results to distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study **Instructor's Manual for Laboratory Preparation to Accompany Biology Laboratory Manual** Darrell S. Vodopich,1989 *Laboratory Studies in Field Crop Science* A. W. Burger,1963 **Evaluation of a Time Saving Team Laboratory Report Assessment** Heidi Elizabeth Krusenklau,1997 **The American Biology Teacher** ,2005 **Genetics** Daniel Hartl,Maryellen Ruvolo,2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation The Software Encyclopedia 2001 ,2001

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