

Lab – Investigating Inherited Traits

Name _____

Introduction

Heredity is the passing on of traits from parent to offspring. The genetic makeup of an individual is known as its genotype. The physical characteristics of an individual, which are the result of its genotype and its environment, are known as its phenotype.

Some alleles are expressed only when the genotype is homozygous. These alleles are said to produce recessive phenotypes. Alleles that are expressed whether the genotype is homozygous or heterozygous produce dominant phenotypes. An allele that codes for a dominant trait is represented by a capital letter, while an allele that codes for a recessive trait is represented by a lowercase letter. Sometimes when the genotype is heterozygous, neither the dominant nor the recessive phenotype occurs. In this situation, called incomplete dominance, an intermediate phenotype is produced.

In humans, the sex of an individual is determined by the particular combination of two chromosomes called the sex chromosomes. Individuals who have two X chromosomes (XX) are females, whereas those who have an X and a Y chromosome (XY) are males. In this investigation, you will observe how the results of different allele combinations produce certain traits.

Problem

How are traits inherited?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

- 1) What does a single side of a double-sided coin or disk represent?
- 2) What is the probability, in percent, that a single coin toss will result in heads? In tails?
- 3) Why is a coin toss a good way to represent allele combinations that occur in nature?
- 4) For the traits explored in this lab, do all heterozygous pairs of alleles produce an intermediate phenotype?
- 5) Can you accurately determine an organism's genotype by observing its phenotype? Explain your answer.

Laboratory Manual A Investigating Inherited Traits

Xiang Xie



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Navy Medicine ,1993 Human Services Dictionary Howard Rosenthal,2020-05-25 This thoroughly expanded edition of Howard Rosenthal s Human Services Dictionary is an essential resource for counselors tackling licensing and certification exams such as the National Counselor Examination NCE and human service workers who wish to pass the Human Services Board Certified Practitioner s Examination HS BCPE With over 650 new entries including terminology related to new areas such as neuroscience emerging psychotherapeutic strategies and the new NCE domain areas definitions are purposely worded to help test takers answer typical questions that commonly show up on exams Key features include reader friendly definitions with accompanying examples and extensive cross referencing as well as short biographies of important figures in the field a short history of human services summaries of popular research experiments and specialized and slang terms specific to the human service profession Finally a useful and up to date resource guide is included that delineates common statistical tests psychoeducational instruments and organizations Written in a clear and accessible style this resource is suitable for anyone in the helping professions from beginning undergraduate students to seasoned professionals

Translational Medicine in CNS Drug Development George G. Nomikos,Douglas E. Feltner,2019-06-18 Translational Medicine in CNS Drug Development Volume 29 is the first book of its kind to offer a comprehensive overview of the latest developments in translational medicine and biomarker techniques With extensive coverage on all aspects of biomarkers and personalized medicine and numerous chapters devoted to the best strategies for developing drugs that target specific disorders this book presents an essential reference for researchers in neuroscience and pharmacology who need the most up to date techniques for the successful development of drugs to treat central nervous system disorders Despite increases in the number of individuals suffering from CNS related disorders the development and approval of drugs for their treatment have been hampered by inefficiencies in advancing compounds from preclinical discovery to the clinic However in the past decades game changing strides have been made in our understanding of the pathophysiology of CNS disorders and the relationship of drug exposure in plasma and CNS to pharmacodynamic measures in both animals and humans Includes comprehensive coverage of biomarker tools and the role of personalized medicine in CNS drug development Discusses strategies for drug development for a full range of CNS indications with particular attention to neuropsychiatric and neurocognitive disorders Includes chapters written by international experts from industry and academia

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Soviet Aeronautics and Astronautics ,1986 Semantic Multimedia Bianca Falcidieno, Michela Spagnuolo, Yannis Avrithis, Ioannis Kompatsiaris, Paul Buitelaar, 2007-12-03 This book constitutes the refereed proceedings of the Second International Conference on Semantics and Digital Media Technologies SAMT 2007 held in Genoa Italy in December 2007 The conference brings together forums projects institutions and individuals investigating the integration of knowledge semantics and low level multimedia processing including new emerging media and application areas The papers are organized in topical sections

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