

### AP Lab 8: Population Genetics and Evolution

(Adapted from the 2001 Student Lab Manual)

*Purpose: In this lab, you will:*

1. learn about the Hardy-Weinberg law of genetic equilibrium
2. study the relationship between evolution and changes in the allele frequency by using your class to represent a sample population

*Prelab questions:*

1. What is the Hardy-Weinberg equation?
  - a. The Hardy-Weinberg equation is " $p^2+2pq+q^2=1$ " and it is used to calculate the genetic variation of a population at equilibrium by calculating the frequency of the alleles in the population.
2. Which part of the equation represents: the homozygous dominant, the heterozygotes, and the homozygous recessive?
  - a. The heterozygotes is represented by " $2pq$ "
  - b. The homozygous recessive is represented by " $q^2$ "
  - c. The homozygous dominant is represented by " $p^2$ "
3. How does the equation  $p+q=1$  relate to Hardy-Weinberg?
  - a. This relates to the Hardy-Weinberg equation because the sum of the alleles (dominant and recessive) must combine to form the genotype in 1 population, making the sum 1 (100%).
4. What are the 5 conditions for Hardy-Weinberg equilibrium to exist?
  - a. No mutation
  - b. Random mating
  - c. No natural selection
  - d. Large population size
  - e. Must be isolated; no migration or emigration

#### Exercise A: Estimating Allele Frequencies for a Specific Trait Within a Sample Population

For this exercise, you will use the class as a sample population to find the allele frequencies for PTC tasting. For a person expressing the dominant allele, T, PTC has a bitter taste. If a person is homozygous recessive, s/he cannot taste PTC.

1. Using the PTC taste-test papers, tear-off a short strip and press it to your tongue tip. Tasters will sense a bitter taste.
2. Calculate the frequency of the taster population by dividing the total number of tasters by the total number of students in the class.
3. Calculate the frequency of the non-taster population by dividing the number of non-tasters by the number of students in the class.
4. Use the Hardy-Weinberg equation to determine the frequencies ( $p$  and  $q$ ) of the two alleles.

*Data for Exercise A:*

# Lab Manual Citation Lab 8 Population Genetics

**RD Boyd**



## **Lab Manual Citation Lab 8 Population Genetics:**

**Exploring Physical Anthropology Laboratory Manual & Workbook** Suzanne E. Walker-Pacheco, 2017-02-01

Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology. It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering. This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises. It offers a solid grounding in the main areas of an introductory physical anthropology lab course: genetics, evolutionary forces, human osteology, forensic anthropology, comparative functional skeletal anatomy, primate behavior, paleoanthropology, and modern human biological variation.

**American Book Publishing Record**, 2002      **The AGT Cytogenetics Laboratory Manual** Marilyn S.

Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology, structure, pathology, function, and behavior. The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics. Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and/or a targeted region within a specific chromosome in metaphase or interphase. Tools include routine analysis of G banded chromosomes, specialized stains that address specific chromosomal structures, and molecular probes such as fluorescence in situ hybridization (FISH) and chromosome microarray analysis, which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation. The AGT Cytogenetics Laboratory Manual, Fourth Edition, offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them. One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories, along with practical advice for nearly every area of interest to cytogeneticists. In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years, such as the basic components of a cell, use of a microscope, human tissue processing for cytogenetic analysis, prenatal constitutional and neoplastic laboratory safety, and the mechanisms behind chromosome rearrangement and aneuploidy, this edition introduces new and expanded chapters by experts in the field. Some of these new topics include a unique collection of chromosome heteromorphisms, clinical examples of genomic imprinting, an example driven overview of chromosomal microarray, mathematics specifically geared for the cytogeneticist, usage of ISCN's cytogenetic language to describe chromosome changes, tips for laboratory management, examples of laboratory information systems, a collection of internet and library resources, and a special chapter on animal chromosomes for the research and zoo cytogeneticist. The range of topics is thus broad yet comprehensive, offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures. This makes it a useful resource for researchers, clinicians, and lab professionals, as well as students in a university or medical school setting.

**Nonhuman Primates in**

**Biomedical Research, Two Volume Set** Christian R. Abee, Keith Mansfield, Suzette D. Tardif, Timothy Morris, 2012-12-31  
The 2e of the gold standard text in the field Nonhuman Primates in Biomedical Research provides a comprehensive up to date review of the use of nonhuman primates in biomedical research The publication emphasizes the biology and management diseases and biomedical models for nonhuman primate species most commonly used in research Each chapter contains an extensive list of bibliographic references photographs and graphic illustrations to provide the reader with a thorough review of the subject The Biology and Management volume provides basic information on the natural biology of nonhuman primates and the current state of knowledge regarding captive management The Diseases volume provides thorough reviews of naturally occurring diseases of nonhuman primates with a section on biomedical models reviewing contemporary nonhuman primate models of human diseases Now in four color throughout making the book more visually stimulating to enhance learning and ease of use Fully revised and updated providing researchers with the most comprehensive review of the use of nonhuman primates in biomedical research Addresses commonly used nonhuman primate biomedical models providing researchers with species specific information **Library of Congress Catalog** Library of Congress, 1973 Beginning with 1953 entries for Motion pictures and filmstrips Music and phonorecords form separate parts of the Library of Congress catalogue Entries for Maps and atlases were issued separately 1953 1955 *Veterinary Medical Guide to Dog and Cat Breeds* Jerold Bell, Kathleen Cavanagh, Larry Tilley, Francis W. K. Smith, 2012-02-01 This book provides the veterinary practitioner student breeder and pet owner with a complete but quick reference to the diagnosis and management of breed related medical conditions of dogs and cats 171 recognized dog breeds and 42 cat breeds are included organized alphabetically with all information fully referenced and based on the most *Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book* Richard A. McPherson, Matthew R. Pincus, 2017-04-05 Recognized as the definitive reference in laboratory medicine since 1908 Henry s Clinical Diagnosis continues to offer state of the art guidance on the scientific foundation and clinical application of today s complete range of laboratory tests Employing a multidisciplinary approach it presents the newest information available in the field including new developments in technologies and the automation platforms on which measurements are performed Provides guidance on error detection correction and prevention as well as cost effective test selection Features a full color layout illustrations and visual aids and an organization based on organ system Features the latest knowledge on cutting edge technologies of molecular diagnostics and proteomics Includes a wealth of information on the exciting subject of omics these extraordinarily complex measurements reflect important changes in the body and have the potential to predict the onset of diseases such as diabetes mellitus Coverage of today s hottest topics includes advances in transfusion medicine and organ transplantation molecular diagnostics in microbiology and infectious diseases point of care testing pharmacogenomics and the microbiome Toxicology and Therapeutic Drug Monitoring chapter discusses the necessity of testing for therapeutic drugs that are more frequently

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Anderson, Gordon D. McLaren, 2012-01-16 *Iron Physiology and Pathophysiology in Humans* provides health professionals in many areas of research and practice with the most up to date and well referenced volume on the importance of iron as a nutrient and its role in health and disease This important new volume is the benchmark in the complex area of interrelationships between the essentiality of iron its functions throughout the body including its critical role in erythropoiesis the biochemistry and clinical relevance of iron containing enzymes and other molecules involved in iron absorption transport and metabolism the importance of optimal iron status on immune function and links between iron and the liver heart brain and other organs Moreover the interactions between genetic and environmental factors and the numerous co morbidities seen with both iron deficiency and iron overload in at risk populations are clearly delineated so that students as well as practitioners can better understand the complexities of these interactions Key features of the volume include an in depth index and recommendations and practice guidelines are included in relevant chapters The volume contains more than 100 detailed tables and informative figures and up to date references that provide the reader with excellent sources of information about the critical role of iron nutrition optimal iron status and the adverse clinical consequences of altered iron homeostasis *Iron Physiology and Pathophysiology in Humans* is an excellent new text as well as the most authoritative resource in the field     **Resources in Education** ,1997-07     **The Army Lawyer** ,1988

**Diagnostic Molecular Pathology** William B. Coleman, Gregory J. Tsongalis, 2023-10-18 *Diagnostic Molecular Pathology A Guide to Applied Molecular Testing Second Edition* assembles a group of experts to discuss the molecular basis and mechanisms of major human diseases and disease processes and how the molecular features of disease can be harnessed to develop practical molecular tests for disease detection diagnosis and prognosis The book explains how molecular tests are utilized in the treatment of patients in personalized medicine highlights new technologies and approaches of applied molecular pathology and discusses how this discovery based research yields new and useful biomarkers and tests As it is essential to stay up to date on new molecular diagnostics in this changing field this book covers critically important areas in the practice of personalized medicine and reflects our understanding of the pathology pathogenesis and pathophysiology of human disease Includes new material on mass spectrometry for infectious diseases microbiome homology directed repair for PARPi whole genome sequencing for constitutional testing and much more Provides insights on the value of the molecular test in comparison to traditional methods which include speed precision sensitivity and clinical impacts for the patient Focuses on the menu of molecular diagnostic tests available in modern molecular pathology or clinical laboratories that can be applied to disease detection diagnosis and classification in the clinical workup of a patient Explains how molecular tests are utilized to guide the treatment of patients in personalized medicine guided therapies and for the prognostication of disease     **Russian Journal of Genetics** ,1999

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