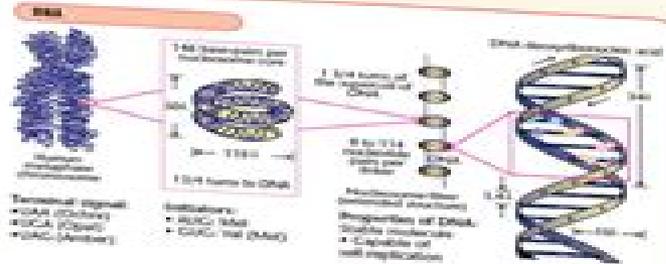


College Genetics

GENETIC BASICS

- Genetics is concerned with heredity and variation
- all living things are products of both nature and nurture; the heredity unit (gene) provides an organism with its nature (that is, biological potential and limitations), while environment provides nurture components
- Interaction of nature and nurture provides organisms with distinct anatomical, physiological, biochemical, and behavioral characteristics
- Genes reside in a long molecule called deoxyribonucleic acid (DNA); along with histones, DNA forms nucleosomes that organize into structures with distinctive staining properties called chromosomes found in cell's nucleus
- Carry (C) lines used to express activity of radioactive substance
 - 1 Ci = 1000 mCi = 3.7×10^{10} disintegrations/second
 - 1 becquerel = 1 disintegration/second = 2.7×10^{-11} mCi
 - 1 mCi = 3.7×10^7 becquerels



GENETIC CODE

| First Letter | Second Letter | | | | | |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | G | C | A | G | C | |
| G | GUU GUC GUA GUG | GUU GUC GUA GUG | GUU GUC GUA GUG | GUU GUC GUA GUG | GUU GUC GUA GUG | GUU GUC GUA GUG |
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| A | AUU AUC AUA AUG | AUU AUC AUA AUG | AUU AUC AUA AUG | AUU AUC AUA AUG | AUU AUC AUA AUG | AUU AUC AUA AUG |
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| C | CUU CUC CUA CUG | CUU CUC CUA CUG | CUU CUC CUA CUG | CUU CUC CUA CUG | CUU CUC CUA CUG | CUU CUC CUA CUG |
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UNITS OF MASS

- Molecular weight (mw) is measured in daltons; 1 dalton = mass of hydrogen molecule = 1.67×10^{-24} g
- Average molecular weight of 1 nucleotide pair = 66 daltons
- DNA units = kilobase (kb) = 1×10^3 bases
- 1.9 kb DNA = coding capacity for 333 amino acids = 37,800 dalton proteins
- 10,000 dalton proteins = 275 base pair (bp) DNA
- 30,000 dalton proteins = 1.35 kilobase (kb) DNA
- MW of a double-stranded DNA molecule = number of base pairs \times (660-dalton/ base pair)
- Mass of a double-stranded DNA molecule = $2 \times$ (grams of DNA)/(MW dalton)

NUCLEIC ACID MASS

- 1 μ g of 1000 bp DNA = 1.52 pmol = 9.1×10^{11} molecules
- 1 μ g of pBR322 DNA (4361 bp) = 0.35 pmol = 2.1×10^{11} molecules
- 1 mg of λ DNA (48502 bp) = 0.85 pmol = 5.1×10^{11} molecules
- 1 pmol of 1000 bp DNA = 0.66 μ g
- 1 pmol of pBR322 DNA (4361 bp) = 2.88 μ g
- 1 pmol of λ DNA (48502 bp) = 32.00 μ g

Notes: There are 3×10^9 bp in human genome = 33% of human genome is repetitive DNA sequence; 40% is unique human chromosome number (diploid) is 46 (23 pairs)

ISOTOPE DATA

| Isotope | Particle emitted | Half life |
|------------------|------------------|-------------|
| ^{14}C | β | 5,730 years |
| ^{32}P | β | 14.3 days |
| ^{35}S | β | 87 days |
| ^{32}S | β | 14.2 days |
| ^{35}Cl | β | 25 days |

ORGANISM

| | |
|-----------|-----------------|
| Earth | Cell |
| Continent | Cell nucleus |
| State | Chromosomes |
| City | Chromosomal DNA |
| Address | Gene segment |

MEASURING DISTANCE

- Genetic distances are expressed in either kb, mb, or cM (centimorgan)
- 1 cM equals one megabase (Mb) of DNA
- 1 cM that is 1 cM apart shows 1% recombination
- Lengths:
 - 1 angstrom (\AA) = diameter of H nucleus = 0.3 nm
 - 1 micrometer (μm) = 10^3 \AA = 10^{-6} mm
 - 1 micron/ micrometer (μm) = 10^{-4} mm
 - 1 mm = 1000 μm

POPULATION GENETICS (HARDY-WEINBERG LAW)

- The population is infinitely large and mates at random
- No selection is operative; therefore, there is no differential mortality nor differential reproduction
- The population is closed; no immigration or emigration
- 50% matings from one allele state to another; evolution is normal so change is only factor operative in gametogenesis

Equilibrium Diploids: Frequencies of dominant allele A and recessive allele a among 100 and sperm are p and q ($p + q = 1$)

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Human Genetics, 1980 *Study Guide* Kelly Bouas-Henry, 2005 By Kelly Bouas Henry Missouri Western State College and Douglas A Bernstein the Study Guide employs numerous techniques to help students learn Each chapter including the optional Industrial Organizational Psychology chapter contains a detailed outline a key terms section that presents fresh examples and learning aids plus a fill in the blank test learning objectives a concepts and exercises section that shows students how to apply their knowledge of psychology to everyday issues and concerns a critical thinking exercise and personal learning activities In addition each chapter concludes with a two part self quiz consisting of 40 multiple choice questions An answer key tells the student not only which response is correct but also why each of the other choices is wrong and quiz analysis tables enable students to track patterns to their wrong answers either by topic or by type of question definition comprehension or application **A Laboratory Guide to the Study of Parasitology** William Brodbeck Herms, 1913 **The Gist of Genetics** Rowland H. Davis, Stephen G. Weller, 1997-12 The complete coverage of this book makes it an ideal companion for students of genetics Its organization complements any standard undergraduate textbook Core material is presented in outline form making it easier to digest and review key concepts Coverage of the basic phenomenology of inheritance genetic analysis and genetic logic and rationales will be appropriate for every student taking a course in genetics Additionally review questions and problems with answers appear at the end of each chapter **STUDY GUIDE FOR INTRODUCTORY GENETICS.** DAVID. PEEBLES, 2020 Handbook of Genetics Robert King, 1975-12-01 The purpose of the first four volumes of the Handbook of Genetics is to bring together collections of relatively short authoritative essays or annotated compilations of data on topics of significance to geneticists Many of the essays will deal with various aspects of the biology of certain species or species groups selected because they are favorite subjects for genetic investigation in nature or the laboratory Often there will be an encyclopedic amount of information available on such species with new papers appearing daily Most of these will be written for specialists in a jargon that is bewildering to a novice and sometimes even to a veteran geneticist working with evolutionarily distant organisms For such readers what is needed is a written introduction to the morphology life cycle reproductive behavior and culture methods for the species in question What are its particular advantages and disadvantages for genetic study and what have we learned from it Where are the classic papers the key bibliographies and how does one get stocks of wild type or mutant strains Lists giving the symbolism and descriptions for selected mutants that have been retained and are thus available for future studies are provided whenever possible Genetic and cytological maps mitotic karyotypes and haploid DNA values are also included when available Volume 4 deals with certain vertebrate species that have been studied in considerable detail from the standpoint of genetics or molecular cytogenetics Such data are available for only a relatively few vertebrates *Principles of Genetics* Robert H. Tamarin, 1999 Offering a balanced treatment of the major areas of genetics classical and molecular population this text

includes coverage of DNA cloning the Human Genome Project and plant genetics Critical thinking questions have been added to each chapter

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Genetics Leland Hartwell, 2000 *Genetics From Genes to Genomes* is a cutting edge introductory genetics text authored by an unparalleled author team including Nobel Prize winner Leland Hartwell The Third Edition continues to build upon the integration of Mendelian and molecular principles providing students with the links between early genetics understanding and the new molecular discoveries that have changed the way the field of genetics is viewed

Peterson's Annual Guides to Graduate Study, 1983

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Books in Print, 1982

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