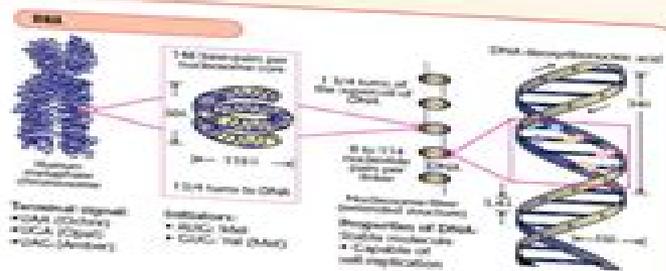


# College Genetics

## 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 =  $3.7 \times 10^{10}$  disintegrations/second
  - 1 becquerel = 1 disintegration/second =  $2.7 \times 10^{-11}$  mCi
  - 1 mCi =  $3.7 \times 10^7$  becquerels



## GENETIC CODE

First Letter	Second Letter					
	G	C	A	G	C	A
U	UUU: Phenylalanine	UCU: Serine	UUA: Leucine	UUG: Leucine	UUA: Leucine	UUA: Leucine
	UUC: Phenylalanine	UCC: Serine	UUA: Leucine	UUG: Leucine	UUA: Leucine	UUA: Leucine
	UUA: Leucine	UCA: Serine	UUA: Leucine	UUG: Leucine	UUA: Leucine	UUA: Leucine
C	CUU: Leucine	CCU: Proline	CUU: Leucine	CUU: Leucine	CUU: Leucine	CUU: Leucine
	CUA: Leucine	CCU: Proline	CUU: Leucine	CUU: Leucine	CUU: Leucine	CUU: Leucine
	CUU: Leucine	CCU: Proline	CUU: Leucine	CUU: Leucine	CUU: Leucine	CUU: Leucine
A	AUU: Isoleucine	ACU: Methionine (Initiator)	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine
	AUA: Isoleucine	ACU: Methionine (Initiator)	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine
	AUU: Isoleucine	ACU: Methionine (Initiator)	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine
G	GUU: Valine (Initiator)	GGU: Glycine	GUU: Valine	GUU: Valine	GUU: Valine	GUU: Valine
	GUA: Valine	GGU: Glycine	GUU: Valine	GUU: Valine	GUU: Valine	GUU: Valine
	GUU: Valine	GGU: Glycine	GUU: Valine	GUU: Valine	GUU: Valine	GUU: Valine

## UNITS OF MASS

- Molecular weight (mw) is measured in daltons; 1 dalton = mass of hydrogen molecule =  $1.67 \times 10^{-24}$  g
- Average molecular weight of 1 nucleotide pair = 66 daltons
- DNA units = kilobase (kb) =  $1 \times 10^3$  bases
- 1.9 kb DNA = coding capacity for 333 amino acids = 37,000 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 = (3000-dalton/ base pair)
- Mass of a double-stranded DNA molecule =  $2 \times$  (grams of DNA)/(MW dalton)

## NUCLEIC ACID DATA

- 1  $\mu$ g of 1000 bp DNA = 1.52 pmol =  $9.1 \times 10^{11}$  molecules
  - 1  $\mu$ g of pBR322 DNA (4361 bp) = 0.35 pmol =  $2.1 \times 10^{11}$  molecules
  - 1 mg of  $\lambda$  DNA (48502 bp) = 0.85 pmol =  $5.1 \times 10^{11}$  molecules
  - 1 pmol of 1000 bp DNA = 0.66  $\mu$ g
  - 1 pmol of pBR322 DNA (4361 bp) = 2.88  $\mu$ g
  - 1 pmol of  $\lambda$  DNA (48502 bp) = 32.00  $\mu$ g
- Notes:** There are  $3 \times 10^9$  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
$^{14}\text{C}$	$\beta$	5,730 years
$^{32}\text{P}$	$\beta$	14.3 days
$^{35}\text{S}$	$\beta$	87 days
$^{32}\text{S}$	$\beta$	14.3 days
$^{35}\text{Cl}$	$\beta$	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 ( $\text{\AA}$ ) = diameter of H nucleus = 0.1 nm
  - 1 micrometer ( $\mu\text{m}$ ) =  $10^3 \text{ \AA}$  =  $10^{-6}$  m
  - 1 micron/ micrometer ( $\mu\text{m}$ ) =  $10^{-6}$  m
  - 1 mm = 1000  $\mu\text{m}$

## 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 neutral so chance is only factor operative in gametogenesis

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

# Genetics Study Guide College

**Peipei Pang**



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**Human Genetics**, 1980     A Laboratory Guide to the Study of Parasitology William Brodbeck Herms, 1913     **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     *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     **Resources in education**, 1987-05     **Basic Genetics** National Learning Corporation, 2019-02 The Regents Excelsior College Examinations E RCE offer you an

opportunity to obtain recognition for college level learning The E RCE consists of exams designed to demonstrate achievement and mastery of various college level subjects such as the Arts and Sciences Business Criminal Justice Education Health and Nursing The Basic Genetics Passbook R prepares you by sharpening your knowledge in advance of the exam and provides hundreds of multiple choice questions that include but are not limited to basic concepts and terminology related to transmission molecular and population genetics mutation variation and evolution societal implications of genetic technology and more

**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

**Peterson's Annual Guides to Graduate Study** ,1983  
**The Farmer's Guide to Agricultural Research** Royal Agricultural Society of England,1926 *Programmed Learning and Individually Paced Instruction* Carl H. Hendershot,1973

*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

*Biology/science Materials* Carolina Biological Supply Company,1991 **The Journal of Heredity** ,1919 The journal discusses articles on gene action regulation and transmission in both plant and animal species including the genetic aspects of botany cytogenetics and evolution zoology and molecular and developmental biology

*Essentials of Genetics* William S. Klug,2010 Key Benefit Known for its focus on problem solving conceptual understanding and practical applications this best seller is 32 pages shorter than its previous edition New features of the Seventh Edition include new Exploring Genomics exercises for selected chapters in chapter summaries that follow concept introductions for efficient review engaging case studies in each chapter an expanded Companion Website with myeBook and a new chapter on Behavioral Genetics Key Topics Introduction to Genetics Mitosis and Meiosis Mendelian Genetics Modifications of Mendelian Ratios Sex Determination and Sex Chromosomes Chromosome Mutations Variation in Number and Arrangement Linkage and Mapping in Eukaryotes Genetic Analysis and Mapping in Bacteria and Phage DNA Structure and Analysis DNA Replication and Recombination Chromosome Structure and DNA Sequence Organization The Genetic Code and Transcription Translation and Proteins Gene Mutation DNA Repair and Transposable Regulation of Genetic Expression Cancer and the Regulation of the Cell Cycle Recombinant DNA Technology and Gene Cloning Genomics and Proteomics Applications and Ethics of Genetic Engineering and Biotechnology Developmental Genetics Genetics and Behavior Quantitative Genetics Population and Evolutionary Genetics Conservation Genetics Market Intended for those interested in learning the basics of genetics

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