

Unit #5: NOTES
Chapters 9 and 12: Genetics and Pedigrees

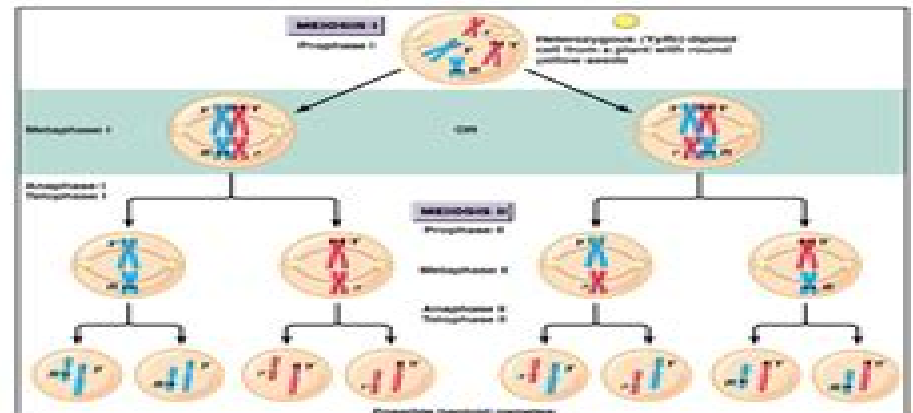
I. Genetics Background

- A. _____: the passing of genetic information (or traits) from parents to offspring
- B. _____: the study of heredity
- C. DNA → Genes → Chromosomes
- D. _____: a specific part of a chromosome that determines a trait (or protein)
- E. Gregor Mendel: known as the "father of genetics"

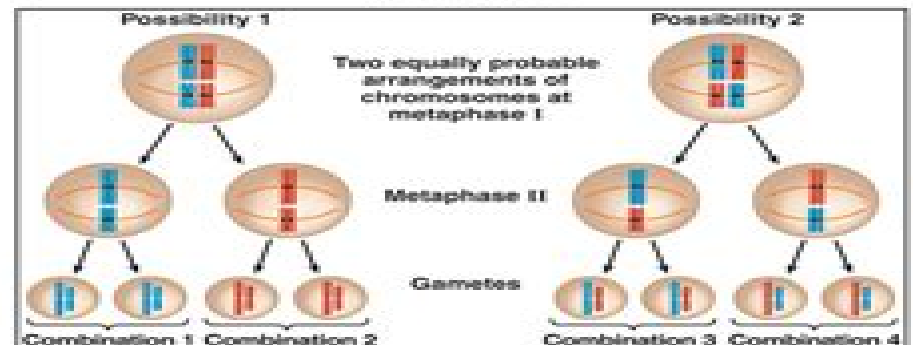
II. Genetics Terms/Information

- A. _____: hides or covers up the recessive gene trait
 - 1. represented by an _____ letter (example: A, B, or H)
- B. _____: covered or hidden by the dominant gene
 - 1. represented by a _____ letter (example: a, b, or h)
- C. _____: different forms of the same gene
- D. _____: a fertilized egg resulting from the union of gametes (sperm and egg)
- E. organisms have _____ genes for every trait because they have two parents
- F. chromosomes separate and segregate randomly during cell division to produce gametes containing one chromosome of each type

- G. _____: each allele in a pair separates into a different gamete during meiosis
 - 1. two alleles for the same trait separate during meiosis
 - 2. only one of the two alleles for a gene is put into a gamete



- H. _____: each pair of alleles (on homologous chromosomes) segregates independently during meiosis
 - 1. genes for one trait are not inherited together with another trait



Biology Human Genetics And Pedigrees Study Guide

W. J. Leverich



Biology Human Genetics And Pedigrees Study Guide:

Study Guide to Accompany Biology: Life on Earth by Teresa Audesirk and Gerald Audesirk David J. Cotter, 1986

History of Human Genetics Heike I. Petermann, Peter S. Harper, Susanne Doetz, 2017-05-10 Written by 30 authors from all over the world this book provides a unique overview of exciting discoveries and surprising developments in human genetics over the last 50 years The individual contributions based on seven international workshops on the history of human genetics cover a diverse range of topics including the early years of the discipline gene mapping and diagnostics Further they discuss the status quo of human genetics in different countries and highlight the value of genetic counseling as an important subfield of medical genetics

Study Guide to Accompany Biology, the Science of Life, Third Edition W. J.

Leverich, 1991 **Study Guide Life** Beck, 1991 **Study Guide** George Karleskint, 1991 *Life: The Science of Biology*

Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26

New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR Student Study

Guide for Biology [by] Campbell/Reece/Mitchell Martha R. Taylor, 1999 **Student Study Guide for Biology [by]**

Campbell/Reece Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests

An Introduction to Human Molecular Genetics Jack J.

Pasternak, 2005-06-03 An Introduction to Human Molecular Genetics Second Edition Jack J Pasternak The Second Edition of this internationally acclaimed text expands its coverage of the molecular genetics of inherited human diseases with the latest research findings and discoveries Using a unique systems based approach the text offers readers a thorough explanation of the gene discovery process and how defective genes are linked to inherited disease states in major organ and tissue systems All the latest developments in functional genomics proteomics and microarray technology have been thoroughly incorporated into the text The first part of the text introduces readers to the fundamentals of cytogenetics and Mendelian genetics Next techniques and strategies for gene manipulation mapping and isolation are examined Readers will particularly appreciate the text s exceptionally thorough and clear explanation of genetic mapping The final part features unique coverage of the molecular genetics of distinct biological systems covering muscle neurological eye cancer and mitochondrial disorders Throughout the text helpful figures and diagrams illustrate and clarify complex material Readers familiar with the first edition will recognize the text s same lucid and engaging style and will find a wealth of new and expanded material that

brings them fully up to date with a current understanding of the field including New chapters on complex genetic disorders genomic imprinting and human population genetics Expanded and fully revised section on clinical genetics covering diagnostic testing molecular screening and various treatments This text is targeted at upper level undergraduate students graduate students and medical students It is also an excellent reference for researchers and physicians who need a clinically relevant reference for the molecular genetics of inherited human diseases **Biology, Study Guide** Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life

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