

# GENETICS

## Basic Concepts

### A. Organismal Reproduction

1. One of the most important requisites of all life, from the earliest life forms to present-day organisms, is **reproduction**.
2. Characteristics or **traits** of organisms must be passed on during reproduction.

### B. Cellular Reproduction

1. Life as we know it is based on the **cell**, the basic unit of life.
2. Cell theory states all organisms are made up of cells and come from cells.

### C. DNA

1. DNA (deoxyribonucleic acid) is the **molecule of inheritance** in ALL cellular forms of life.

### D. Chromosomes

1. Eukaryotic cells possess nuclear DNA, with structural and enzymatic proteins, forming **chromatin**, which is visible as **chromosomes** during parts of the cell cycle.
2. Prokaryotic cells possess simpler DNA.
3. Sexually reproducing organisms typically have pairs of **homologous chromosomes** (look-alike chromosomes).

### E. RNA

1. RNA (ribonucleic acid) is found in several forms, most of which are used in protein synthesis.
2. RNA is the **molecule of inheritance** in some viruses, which are not cell-based life forms.

### F. Genes

1. Functional unit of inheritance and basis for most traits.
2. Located at **loci**, or specific positions, on DNA; to be preserved and transmitted.
3. Control biological processes through production of proteins and RNA.

4. **Genotype** refers to the **genetic composition** of the organism.
5. **Phenotype** refers to the **observable inherited traits** (e.g., physical, behavioral, physiological characteristics) based on the inherited genotype.

## Genes Form Basis of Inheritance



### G. Ploidy

1. Homologous chromosome pairs have the same **loci**, thus **genes**.
2. When both chromosomes are present, for each gene there are two representatives; this is represented by the symbol **2n** or **diploid** condition.
3. When only half of each homologous chromosome pair is present, such as in gametes, this is represented by the symbol **n** or **haploid**.

### H. Alleles

1. Alternate forms of the same gene that could occupy the same **locus** (e.g., brown versus blue eye color).

2. Homologous chromosomes possess two representatives of each gene (i.e., **2n**).
3. **Homozygous** refers to the diploid condition where **both alleles of the genotype are identical** (e.g., AA, aa).
4. **Heterozygous** refers to the diploid condition where **both alleles of the genotype are different** (i.e., Aa).
5. **Dominant alleles** form a phenotypic expression regardless of the other allele on the matched chromosome of the homolog (e.g., "AA" or "Aa" genotypes will both express the phenotype designated by the "A" allele).
6. **Recessive alleles** fail to form a phenotypic expression unless the other allele on the matched chromosome is also recessive (e.g., "aa" genotype is the only way for the phenotype designated by the "a" allele to be expressed, assuming no other gene pairs influence inheritance [see epistasis discussion in Gene Action Categories, page 2]).
7. Additional types of allelic interactions will be discussed in subsequent sections.
8. **Determining gamete types:** Assuming there are no mutations, alleles present in gametes are determined by the diploid genotypes of parents.
  - a. For **homozygous genotypes**, haploid gametes will be identical for the given trait (i.e., AA individual would produce "A" gametes only; AAbb individual would produce "Ab" gametes only).
  - b. For **heterozygous genotypes**, haploid gametes will be different for the given trait (i.e., Aa individual would produce "A" & "a" gametes; AaBb individual would produce "AB, Ab, aB, ab" gametes—assuming two traits are unlinked [see Independent Assortment & Dihybrid Crosses, page 2]).

## Mendelian Genetics

### A. Gregor Mendel (1822–1884)

1. An Austrian monk who, through his love and interest in nature, developed the basic ideas of genetics long before chromosomes and genes (i.e., molecular biology) were discovered.
  - a. He developed his ideas by studying plants; in particular, his most famous work involved crosses with **pea plant varieties**.
2. His results and interpretations contrasted with a prevailing (at that time) theme of inheritance called "**blending**"—the concept that inherited traits mixed to create a composite characteristic in offspring.

### B. Mendel's Genetics Laws

#### 1. Segregation of Alternate Factors & Monohybrid Crosses

- a. Specifically, Mendel discovered that with certain traits, there were individual plants which, if only crossed with other plants just like them, would almost always produce the exact same phenotype.

- i. These individuals were called **true-breeding**.
  - ii. We now call this condition **homozygous**.
- a. He also found that some individuals with similar appearance, when crossed, would not have all offspring of the same kind.
    - i. We now call this condition **heterozygous**.
  - c. Mendel decided to systematically do single-trait crosses to determine the causes for the previously stated observations.
  - d. Specifically, a **parental generation (P)** initiated these experimental crosses by using two true-breeding pea plants for opposite phenotypes (e.g., purple versus white flowers).
  - e. **Offspring** from this cross (**F<sub>1</sub>**) all showed only one of the traits (e.g., purple flowers), and this trait was called the **dominant trait**.
  - f. Traits from the P generation "**did not blend**" in these F<sub>1</sub> individuals.
  - g. F<sub>1</sub> individuals, the **hybrids**, were cross-pollinated—to produce F<sub>2</sub> individuals.
  - h. ¼ of the F<sub>2</sub> individuals expressed the dominant trait, while ¾ expressed the trait of the other P parent (e.g., white); that had not been expressed in the F<sub>1</sub> generation—this latter trait was the **recessive form**.
  - i. The expected **phenotypic ratio** of the F<sub>2</sub> individuals in **monohybrid crosses** would be **3:1**.
  - j. The expected **genotypic ratio** of the F<sub>2</sub> individuals in **monohybrid crosses** would be **2:1:1**.
  - k. The diagram at right, called a **Punnett square**, summarizes results of a single-trait cross similar to those done by Mendel on pea plants and other organisms.

### Mendel's 1st Law: Segregation of Alternate Factors

P generation	Gray female (GG)	Normal male (gg)	
Gametes produced by P generation	G	g	
F <sub>1</sub> generation	All Gg		
	Dominant G masks recessive g		
Gametes produced by F <sub>1</sub> generation	G	g	
All Gg	GG	Gg	F <sub>2</sub> generation
	Gg	gg	

- i. Mendel concluded there had to be some physical entities or "**factors**" passed on by each parent of a cross.
  - a. We now know these to be **genes**.
- ii. He also concluded that these factors came in **pairs**, which then became **separated** (in the production of gametes, which occurs during meiosis) and **recombined** during fertilization.
- iii. The two P generation individuals had the factors in **alternate forms** called **alleles** (e.g., purple versus white flowers).

# Genetics A Basic Guide

**Dr. Udaybhan Yadav, Dr. Amita  
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## **Genetics A Basic Guide:**

*Genetics* Burton Guttman, Anthony Griffiths, David Suzuki, 2011-01-15 Details the history of the study of genetics from Mendel's discoveries to the decoding of the human genome and explains the fundamentals of genetics the function of genes and DNA manipulation

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**The Ethics of Gene Editing: A Simple Guide to Big Ideas** Nova Martian,2025-04-24 Gene editing stands at the frontier of scientific innovation promising to reshape medicine agriculture and even our conception of humanity itself The Ethics of Gene Editing A Simple Guide to Big Ideas provides a clear and accessible introduction to the science behind gene editing including foundational concepts in genetics and the landmark techniques driving the field such as CRISPR The book demystifies both the history and the modern practice of gene editing breaking down complex technical processes for readers of all backgrounds Yet scientific advancement inevitably brings profound ethical questions This guide thoughtfully explores the moral frameworks that govern scientific responsibility highlighting key ethical theories the balancing act between innovation and caution and the critical importance of public trust Through compelling real world examples and timely case studies the book guides readers through the challenging dilemmas faced in medicine particularly in the context of genetic therapies human embryo editing and potential impacts on future generations Expanding the conversation beyond human healthcare the book also examines the use of gene editing in agriculture environmental management and animal welfare It delves into the global diversity of regulatory approaches and cultural values addressing pressing debates about equity consent social justice and the potential for inequality By fostering public awareness and dialogue The Ethics of Gene Editing empowers readers to engage with the ongoing societal conversation encouraging both personal reflection and collective responsibility as we navigate an era of unprecedented biological possibility      **Introduction to Genetics** Terry A.

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Lewin's Essential GENES Benjamin Lewin,Jocelyn E. Krebs,Elliott S. Goldstein,Stephen T. Kilpatrick,2009-03-02

**Genetics in Simple Terms- A Beginner's Guide to Genetics** Dr. Udaybhan Yadav,Dr. Amita Chandanshive,2024-11-21

**Genetics** Daniel Hartl,Maryellen Ruvolo,2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation

**Essential Genetics** Daniel Hartl,2011 Updated to reflect the latest discoveries in the field the Fifth Edition of Hartl s classic text provides an accessible student friendly introduction to contemporary genetics Designed for the shorter less comprehensive introductory course Essential Genetics A Genomic Perspective Fifth Edition includes carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation expression and regulation New and updated sections on genetic analysis molecular genetics probability in genetics and pathogenicity islands ensure that students are kept up to date on current key topics The text also provides students with a sense of the social and historical context in which genetics has developed The updated companion web site provides numerous study tools such as animated flashcards crosswords practice quizzes and more New and expanded end of chapter material allows for a mastery of key genetics concepts and is ideal for homework assignments and in class discussion

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**The Rough Guide to Genes &**

**Cloning** Rough Guides,2007-04-26 What exactly is a gene How does cloning actually work Are designer babies a bad idea Could we ever clone a human The Rough Guide To Genes Cloning answers all these questions and more From the inside story of cells and their structure and the sleuths who cracked the genetic code to DNA cloning twins and Dolly the sheep Illustrated throughout with helpful pictures and diagrams this Rough Guide turns the microscope on the things that make us what we are

*Genetics* Daniel L. Hartl,2011-08-05 *The ABCs of Gene Cloning* Dominic Wong,2007-12-31 Clear and concise this easy to use text offers an introductory course on the language of gene cloning covering microbial plant and animal systems The essential concepts in biology relevant to the understanding of gene cloning are presented in a well organized and accessible manner This updated version of the first edition is an invaluable book for nonscientists as well as scientists with little background knowledge in gene cloning providing a wealth of information for anyone wishing to gain proficiency in reading and speaking the language of gene cloning

**NextGen Genealogy** David R. Dowell Ph.D.,2014-11-25 DNA testing can serve as a powerful tool that unlocks the hidden information within our bodies for family history research This book explains how genetic genealogy works and answers the questions of genealogists and individuals seeking information on their family trees Now that DNA testing for genealogical purposes has existed for nearly a decade and a half and been refined and improved during that time it has established its value among family history researchers It is now becoming accepted as another tool in the kit of well rounded genealogists This book covers this fast growing application of genetics empowering genealogists to apply this information to further their research It will also enable general readers to understand how genetic information can be applied to verify or refute documentary research and to break down frustrating walls that block the discovery of ancestors The book describes the three major categories of DNA testing for family history research Y chromosome tests for investigating paternal surname lines mitochondrial tests for investigating maternal umbilical lines and autosomal tests for exploring close relationships Expert genealogist David Dowell provides guidance on deciding which test to take and identifying which members of your family should be tested to answer your most important genealogical questions Readers will also learn how to interpret the results of tests and methods for further analysis to get additional value from them

Encyclopedia of Genetics, Genomics, Proteomics, and Informatics George P. Rédei,2008-04-25 This new third edition updates a best selling encyclopedia It includes about 56% more words than the 1 392 page second edition of 2003 The number of illustrations increased to almost 2 000 and their quality has improved by design and four colors It includes approximately 1 800 current databases and web servers This encyclopedia covers the basics and the latest in genomics proteomics genetic engineering small RNAs transcription factories chromosome territories stem cells genetic networks epigenetics prions hereditary diseases and patents Similar integrated information is not available in textbooks or on the Internet

Genetics Manual G. P. Rédei,1998 Redei has created an outstanding compendium of genetics Arranged as a dictionary the book is almost an encyclopedic collection of terms concepts The author has managed to define terms with

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