

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 homologous (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 traits (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 traits (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.

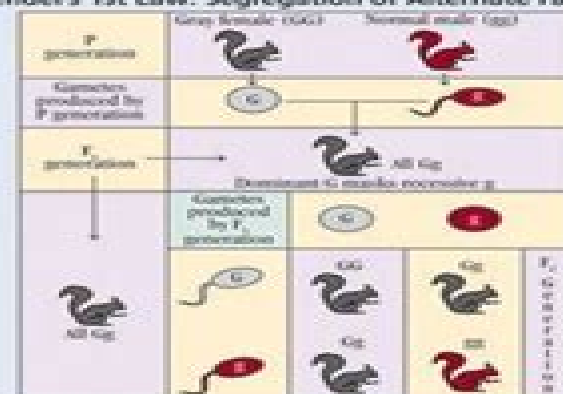
B. Mendel's Genetics Laws

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-breeds**.
 - 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 (**F₁**) 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 F₁ individuals.
 - g. F₁ individuals, the **hybrids**, were cross-pollinated—to produce F₂ individuals.
 - h. 1/4 of the F₂ individuals expressed the dominant trait, while 3/4 expressed the trait of the other P parent (e.g., white)—this latter trait was the **recessive form**.
 - i. The expected **phenotypic ratio** of the F₂ individuals in **monohybrid crosses** would be **3:1**.
 - j. The expected **genotypic ratio** of the F₂ 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



1. Mendel concluded there had to be some physical entities or "**factors**" passed on by each parent of a cross.
 - i. 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

I. J. Pedder, E. G. Wynne



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

An Introduction to The Gene Keys: A Beginners Guide To Better Understanding Yourself, 2024-06-24 An Introduction to The Gene Keys A Beginners Guide To Better Understanding Yourself Discover the transformative power of the Gene Keys with this comprehensive beginner's guide An Introduction to The Gene Keys is a must read for anyone seeking to unlock their full potential and embark on a profound journey of self discovery This essential ebook explores the 64 Gene Keys a revolutionary synthesis of ancient wisdom and modern science offering a step by step guide to navigating the path from shadow to gift to siddhi In this 50 page ebook you'll gain a deep understanding of the Gene Keys system and learn how to apply its teachings to your daily life Explore the three main sequences the Activation Sequence the Venus Sequence and the Pearl Sequence and uncover the hidden gifts and challenges within your own unique Hologenetic Profile Discover practical exercises contemplations and real life case studies that will help you integrate the wisdom of the Gene Keys into your personal growth and spiritual evolution Whether you're new to the Gene Keys or a seasoned explorer this ebook offers invaluable insights and guidance for your journey Inside An Introduction to The Gene Keys you'll find A clear and accessible introduction to the 64 Gene Keys and their corresponding shadow gift and siddhi expressions In depth explorations of the Activation Venus and Pearl Sequences and their role in your personal development Practical guidance on interpreting your Hologenetic Profile and working with your individual Gene Keys Inspiring case studies and examples of individuals who have experienced profound transformation through the Gene Keys Guided exercises contemplations and journaling prompts to support your journey of self discovery Extensive resources and recommendations for further study and exploration of the Gene Keys Embark on a life changing journey of self discovery and unlock your highest potential with An Introduction to The Gene Keys This comprehensive beginner's guide is an indispensable resource for anyone ready to explore the depths of their being and create a life of purpose fulfillment and joy

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

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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

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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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