

GENETICS

A. Organismal Reproduction

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

B. Cellular Reproduction

- Life as we know it is based on the cell, the basic unit of tife
- Cell theory states all organisms are made up of cells and come from cells

C. DOMA

 DNA (decryribogaschie geid) is the molecule of inheritance in ALL cellular jorns of life

D. Chromosopours

- Enhancement cells process machine DNA with structural and carry-matter process. Forming threamattic, which is visible as chromosomers during pure of the cell cycle.
- 2. Prokaryotic cells possess simpler DNA.
- Sexually reproducing organisms typically have pairs of homologous ehromosomes (look-alike chromosomes)

E. RNA

- RNA (gibequeleic gold) is found in several forms, most of which are used in protein synthesis
- RNA is the molecule of inheritance in some viruses, which are not cell-hand life forms

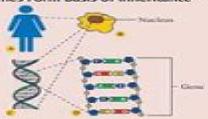
F. Gener

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

Basic Concepts

- Generappe refers to the generale composition of the organism
- Phenotype refers to the advantable industrial statis (e.g., physical, behavioral, physiological characteristics); based on the inherited genotype

Genes Form Basis of Inheritance



G. Ploudy

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

HL Alliches

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

- Humologous chromosomes possess two representatives of each gone (i.e., 2n)
- Homozygous refers to the diploid condition where hoth affekts of the perceptor are <u>identical</u> to p. A.A., as:
- Heteroxygous refers to the diploid condition where book alleles of the genotype are different (i.e., A.s.)
- Dominant affetes form a phenotypic expression regardless of the other affete on the matched chromosome of the homologue et g., "AA" or "Aa" genotypes will both express the phenotype designated by the "A" affete)
- 6. Recessing afficient fail to form a phonotypic expression unless the other affect on the matched chromosome is also recessive (e.g., "na" generative in the only way for the phonotype designated by the "a" affect to be expressed, assuming no other gene pairs influence inhoritance [see epistasis discussion in Gene Action Categories, page 2])
- Additional types of allefu interactions will be discussed in subsequent sections
- Determining gamete types: Assuming there are no mutations, affelies present in gametes are determined by the diploid generity see of parents.
 - a. For homozygous genetypes, haplaid gametes will be <u>identiced</u> for the given traits (i.e., AA individual would produce "A" gametes only; AAbbindividual would produce "Ab" gametes only;
 - b. For hoteroxygous genotypes, Augiliaid gamento will be aligned for the given trains (i.e., An individual secold produce "A.B. "a" gamentee, Audib individual would produce "A.B. Ab, aB, ab" gamentes sounding two traits are unlinked [see Independent Assortment & Dibly brid Crosses, page 23)

Mendelian Genetics

A. Greece Mendel (1822-1884).

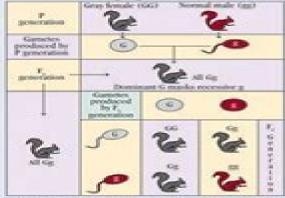
- An Austrian monk who, through his love and interest in nature, developed the basic ideas of genetics long before chromosomes and genes (i.e., molecular biology) were discovered.
 - a. He developed his ideas by studying plants; in particular, his most famous work involved courses with pea plant varieties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

B. Mendel's Genetics Laws

- Segregation of Alternate Factors & Monohybrid Crosses
 - a. Specifically, Mendel discovered that with certain traits, there were individual plants which, if only econoid with other plants just like them, would almost always produce the exact same phenotype.

- i. These individuals were called true-breeders
- ii. We now call this condition homozygous
- b. He also found that some individuals with similar appearance, when crossed, would not have all offigeing of the same kind.
- i. We now call this condition between goes.
- 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 truebreeding pea plants for opposite phenotypes (e.g., purple versus white flowers)
- 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 bland" in these F₁ individuals
- g. Fa individuals, the hybrids, were cross-politicated the monoleybrid cross—to produce Fa individuals.
- b. V_n of the F₂ individuals expressed the dominant trait, while V_n expressed the trait of the other P parent (e.g., white) that had not been expressed in the F₁ potention—this latter trait was the recessive form.
- The expected phenogytic rustic of the F₂ individuals in monohybrid crosses would be 3:1
- The expected geosphic 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-test cross similar to those done by Mendel on pea plants and other organistus;

Mendel's 1st Law: Segregation of Alternate Factors



- 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 gones.
 - He also concluded that these factors came in pairs, which then became impaired (in the production of gameter, which occurs during melosis) and recombined during fertilization
 - The two P generation individuals had the factors in alternate forms called alleles (e.g., purple versus white flowers)

Basic Genetics Student Guide

Karin Nielsen-Saines

Basic Genetics Student Guide:

Unveiling the Magic of Words: A Overview of "Basic Genetics Student Guide"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly aweinspiring. Enter the realm of "Basic Genetics Student Guide," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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