



GENERAL BIOLOGY 2

S.Y. '23 - '24 | SEM 2 Q3 | LAS/PPT

– SEM 2 Q3 WEEK 1 –

1.0 BASIC GENETIC CONCEPTS & TERM

- **Genetics** is a field of biology that studies how traits are passed from parents to their offspring.
 - A. It is the study of how living things receive common traits from previous generations.
 - B. Children inherit their biological parents' genes that express specific traits, such as some physical characteristics, natural talents, and genetic disorders.
- **Allele:** Alternative forms of a gene. Two genes that occupy the same position on homologous chromosomes and that cover the same trait.
- **Genes:** a unit of heredity; a section of DNA, sequence encoding a single protein
- **Dominant :** the allele of a gene that masks or suppresses the expression of an alternate allele; the trait also appears in the heterozygous condition.
- **Recessive:** an allele that is masked by a dominant allele; does not appear in the heterozygous condition, only in homozygous.
- **Homozygous:** having identical genes (one from each parent) for a particular characteristic
- **Heterozygous:** having two different genes for a particular characteristic.
- **Genotype:** the genetic makeup of an organisms
- **Phenotype:** the physical appearance of an organism (Genotype + environment).
- **Mendelian Inheritance:**
 - A. The inherited traits are determined by genes that are passed from parents to children.
 - B. A child inherits two sets of genes—one from each parent.
 - C. A trait may not be observable, but its gene can be passed to the next generation.
- **Genome:** the entire set of genes in an organism.
- **Karyotype:** is an individual's complete set of chromosomes
- **Chromosomes** carry the hereditary information (genes); occur in pairs called **homologous chromosomes** (are chromosomes pairs that are similar in length, gene position, and centromere location)

1.1 GREGOR JOHANN MENDEL

- Prior to Mendel, heredity was regarded as a "blending" process and the offspring were essentially a "dilution" of the different parental characteristics.
- In 1865, he published Experiments in Plant Hybridization, (Versuche über Pflanzen-Hybriden) in which he established his three Principles of Inheritance.
- Mendel predicted:
 - ✓ The concept of genes
 - ✓ That genes occur in pairs
 - ✓ That one gene of each pair is present in the gametes

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- P = parental generation
- F1 = first filial generation
- F2 = second filial generation

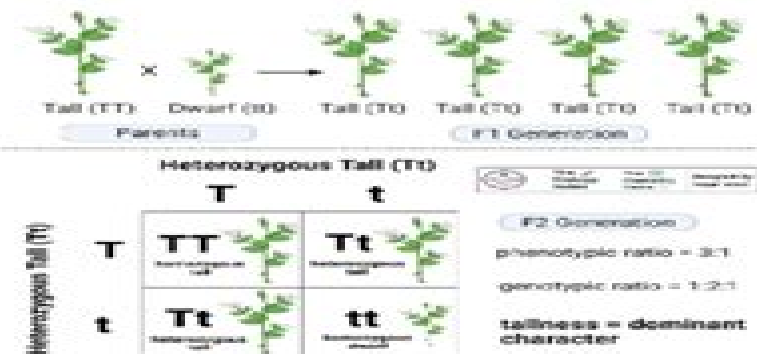
2.0 MENDEL'S LAWS OF HEREDITY

Mendel's laws of heredity refer to biological concepts of heredity first uncovered by the Austrian monk Gregor Mendel, who lived in the early 1800s.

2.1 LAW OF DOMINANCE

– States that when two pure parents with opposite traits are crossed, the resulting offspring show only one trait. This is the dominant trait. The trait that is hidden is the recessive trait

– One allele masked another, one allele was dominant over the other in the F1 generation.



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