

## CHAPTER 11 FUNDAMENTALS OF GENETICS

### Early Concepts in Genetics

**Genetics Prehistory** - domestication of wolves into dogs of specific specialization of traits; breeding of plants.

**BLENDING HYPOTHESIS** – this explanation is developed by Aristotle.

- it says that the traits of the parents were blended in their offspring producing a form of intermediate between the two parents and the blended traits are passed on to the next generation.
- Example: Parents: *Tall and Short*  
Children: *Medium*

**GREGOR MENDEL** – he is the father of Modern Genetics. He is an Austrian monk who studied and bred pea plants. His observations helped him to understand the patterns of heredity.

**GENETICS** – the scientific study of heredity.

### Mendel's Investigations

Mendel's Experiments:

1. He cross-bred pea plants with different traits like (tall with short; wrinkled seed with smooth; green with yellow; etc.)
2. Observations: Mendel did several generations of breeding of pea plants  
P : parents; F1: first generation offspring; F2: 2<sup>nd</sup> gen. offspring from self fertilization of F1

**DOMINANT TRAIT** – a trait that masks the appearance of a recessive gene  
- a trait that can be showed in a hybrid.

**RECESSIVE TRAIT** – a trait that is masked by the dominant trait.  
- a trait that did not show in a hybrid.

p. 131 shows us the summary of F1 results:

	Plant Height	Seed shape	Seed Color
P	TT x tt <i>tall</i> x <i>short</i>	RR x rr round x wrinkled	YY x yy yellow x green
F1	Tt <i>tall</i>	Rr <i>round</i>	Yy Yellow
	After self pollination. of F1: Tt x Tt	After self pollination. of F1: Rr x Rr	After self pollination. of F1: Yy x Yy
F2	3 tall, 1 short	3 round, 1 wrinkled	3 yellow, 1 green

**Mendel's Hypothesis:** that each trait is controlled by something called a "factor" within the organism.

**GENE** – the term used by scientists to indicate a genetic factor that controls a trait

# Genetics Notes

**Albert A Gayle**



## **Genetics Notes:**

## **Genetics Notes** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Genetics Notes**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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