

## 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:

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

**Y Pai**



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