

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**: 2nd 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 <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
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

Lingjun Ying



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