

MEDELLIAN GENETICS I

- Mendellian genetics is AKA "Classical genetics"
- Discovered by Gregor Johann Mendel (1866).
- Major postulates of transmission genetics.
- Garden pea (*Pisum sativum*)
- Discrete units of inheritance exist and predicted their behavior during the formation of gametes (elementen)
- Mendel's postulates were accepted as the basis for the study of what is known as transmission genetics.
- Discrete of inheritance
 - Now AKA "Genes"








Garden Pea

- Easy to grow and hybridize artificially.
- Self-fertilizing in nature.
- Seven visible features (unit characters), each represented by two contrasting forms or traits.
- Eg. Character:
 - a. Stem height
 - Traits: Tall or dwarf
- He selected 6 other visibly contrasting pairs of traits involving:
 1. Seed shape
 2. Seed color
 3. Pod shape
 4. Pod color
 5. Pod arrangement
 6. Flower arrangement
- Mendel's simplest crosses involved only one pair contrasting traits. (monohybrid cross), from two parent strains, each exhibiting one of the two contrasting forms of the character under study.
- Monohybrid cross
 - Checks for only one character.
 - It has two traits.
 - Eg. Stem height: Tall or dwarf
- Initially, we examine the first generation of offspring of such a cross, and then we consider the results of selfing.
- Selfing
 - The offspring of self-fertilizing individuals from first generation.

- The original parents constitute the P1 or Parental generation their offspring are the F1 or First filial generation, and the individuals resulting from the selfed F1 generation are the F2 or Second filial generation.

- P1 or Parental generation/ Original parents
 - P1 Offspring: F1 or First filial generation
 - Self F1 generation: F2 or Second filial generation.
- P1 Cross
 - The mating of two breeding plant.
- When Mendel crossed tall plants with dwarf plants, the resulting F1 generation consisted only a tall plant (gibberellin).
- When members of the F1 generation were selfed, Mendel observed that 787 of 1064 were tall, while the remaining 277 were dwarf.
- Note that in this cross the dwarf trait disappears in the F1 only to reappear in the F2 generation.
- Stem height/ Stem lenght
 - Representative character
- To explain these results, Mendel proposed the existence of particular unit factors for each trait.
- He suggested that these factors serve as the basic units of heredity and are passed unchanged from generation to generation, determining the various traits expressed by each individual plant.
- Eg. "Round" and "wrinkled" peas arise from the *R* gene.
- R gene
 - Represents the allele of the specific organism.

MEDEL'S PEA PLANT TRAITS

Character	Contrasting traits		P ₁ results	F ₁ results	F ₂ ratio
Seed shape	round/wrinkled		all round	5474 round 1630 wrinkled	3.06:1
Seed color	yellow/green		all yellow	6022 yellow 2001 green	3.01:1
Pod shape	full/constricted		all full	882 full 299 constricted	2.95:1
Pod color	green/yellow		all green	428 green 152 yellow	2.82:1
Flower color	violet/white		all violet	705 violet 224 white	3.13:1
Flower position	axial/terminal		all axial	851 axial 297 terminal	3.14:1
Stem height	tall/dwarf		all tall	787 tall 277 dwarf	2.84:1

Mendellian Genetics Study Guide

S Marginson



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