

5.2 Mendelian Inheritance

Mendelian Inheritance

Gregor Johan mendel → Inheritance laws

Experimental Organism → Pisum sativum (Pea)

- Easy to cultivate
- Fertilization (Self, cross)
- Artificial Breeding
- Hybrids are fertile
- Generation time short

CHARACTERS OF PEA

CHARACTER	DOMINANT	RECESSIVE
• Stem length	Tall	Dwarf
• Pod Shape	Inflated	Constricted
• Seed Shape	Round	Wrinkled
• Seed Colour	Yellow	Green
• Flower Colour	Purple	White
• Flower Position	Axial	Terminal
• Pod colour	Green	Yellow

- Each trait of Pea is distinguished, No intermediate form.
- No. of chromosomes in Pea is ⑦
- But traits gene present on ④ chromosome.

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→ Chromosome # 1 → Seed colour, Flower colour

→ Chromosome # 4 → Stem length, Pod shape
Position of flower

→ Chromosome # 5 → Pod colour

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→ Chromosome # 7 → Seed shape