

Genetics

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Contents

- Heredity
- Variation
- Allele
- Homologous
- Heterologous
- Mendelian Genetics
- Inheritance of one gene

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Genetics- Gregor Johann Mendel

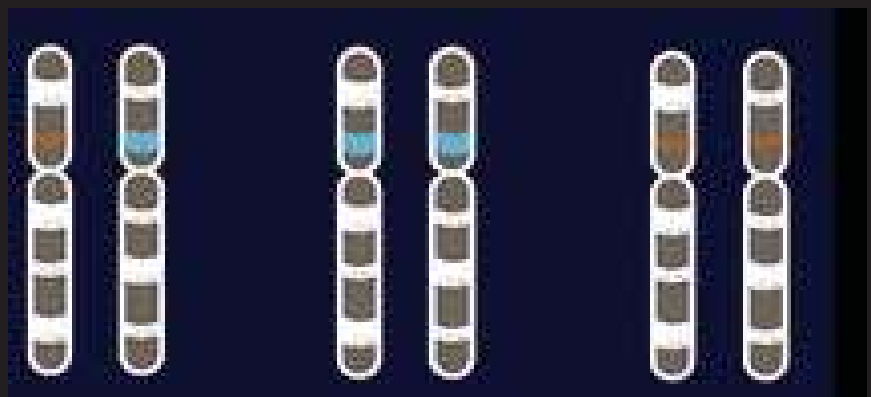
- *Heredity*
- *Variations*
- *Inherited traits*



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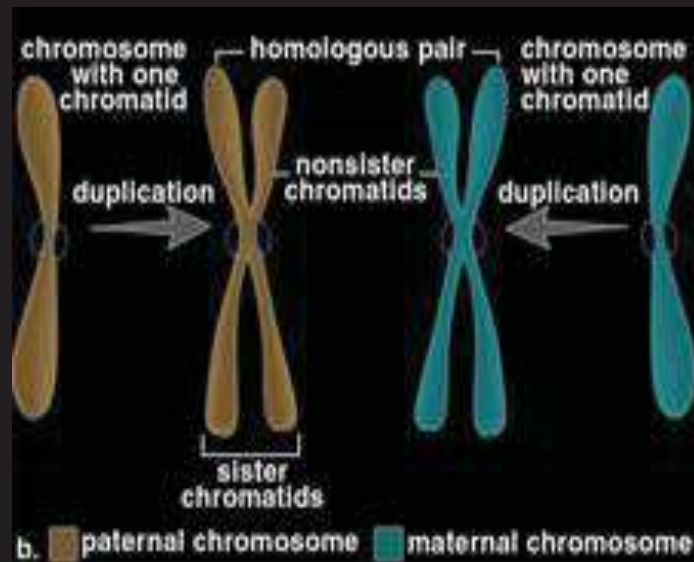
Allele

- *Dominant Allele*
- *Recessive Allele*
- *Multiple Allele*



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Homologous & Heterologous Chromosomes

















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Mendelian Genetics

- Presence of distinctive traits
- Bisexual flower
- Rapid reproduction
- Self-fertilization
- Cross-pollination- Emasculation
- Short life span
- Easy to cultivate

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Seven Characters

Traits	Shape of Seeds	Color of Seeds	Color of Pods	Shape of Pods	Plant Height	Position of Flowers	Flower Color
Dominant trait	Round 	Yellow 	Green 	Full 	Tall 	At leaf junctions 	Purple 
Recessive trait	Wrinkled 	Green 	Yellow 	Flat, constricted 	short 	At tips of branches 	White 



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Inheritance of one gene

Genotype

Phenotype