

- manipulation / alteration of gene

1.1 Early development of genetics

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3 categories

- Mendelian Genetics / classical genetics.
- Microbial genetics.
- Gene manipulation.

* 1865 → Gregor Mendel → Mathematician
→ Priest
→ worked on sweet pea

→ Did Artificial Hybridization

Gregor Mendel gave some set of rule.

- Each characteristics of an organism is controlled by factor.

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Known as Principle of Inheritance.

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Cornerstone of modern genetics

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He is known as father of Genetics.

* 1869 → Fredrick Meischner → Isolated 'nuclein' from nucleus from WBC of human beings. (nucleus + protein)

* After 2 yrs 1871 → Ernst Haeckel → genetic material is present in nucleus.

* 1900 → Rediscovery of Mendell's law → "birth of Genetics"