

GRANDPAPA MENDEL, 1822-1884
The Father of Heredity

Grandpapa Mendel was a teacher who was taught natural science & high school math (e.g., 1/2 chance he then played a role in founding of genetics like Mendel) and was famous for his experiments on pea plants to understand the laws of heredity. At the time, Mendel's work was considered by many scientists to be unimportant & the 20th century, it took people some 20-30 years before Mendel's ideas were rediscovered.

The founder of heredity before Mendel was of course, Aristotle (384-322 BC) but Aristotle's ideas were not really about heredity. Aristotle's ideas were more about the nature of life in general, but he did think about heredity. Aristotle's ideas were not really about heredity, but he did think about heredity. Aristotle's ideas were not really about heredity, but he did think about heredity.



Figure 1: Gregor Mendel

Mendel was the first person to analyze and look into the inheritance of particular traits & to do so in the garden of heredity. The first step was to choose the pea plant and to do so by growing a number of different varieties. These varieties consisted of different colored seeds, different seed shapes, different pod shapes, different pod colors, different flower colors, different positions of flowers, etc. Mendel chose to work with pea plants because they were easy to grow and they were easy to cross. Mendel chose to work with pea plants because they were easy to grow and they were easy to cross. Mendel chose to work with pea plants because they were easy to grow and they were easy to cross.

Mendel followed an experiment to cross different colored pea plants. He crossed a pea plant with yellow seeds with a pea plant with green seeds. The offspring were all yellow seeds. Mendel followed an experiment to cross different colored pea plants. He crossed a pea plant with yellow seeds with a pea plant with green seeds. The offspring were all yellow seeds. Mendel followed an experiment to cross different colored pea plants. He crossed a pea plant with yellow seeds with a pea plant with green seeds. The offspring were all yellow seeds.

From the first experiment where Mendel gave an estimated 20,000 pea plants over eight years, he obtained a definite law. The F₁ generation always had offspring having only one of the desired characteristics (never both). The F₂ generation always had offspring having both parental traits. Mendel followed an experiment to cross different colored pea plants. He crossed a pea plant with yellow seeds with a pea plant with green seeds. The offspring were all yellow seeds.

The first experiment and Mendel's law of segregation, and Mendel's law of independent assortment, describe Mendel's experiments about what was happening deep inside the cell. Mendel's law of segregation describes Mendel's experiments about what was happening deep inside the cell. Mendel's law of independent assortment describes Mendel's experiments about what was happening deep inside the cell.

The experiments showed both monohybrid inheritance and dihybrid inheritance. Monohybrid inheritance is the pattern of inheritance of a characteristic influenced by single pair of alleles. Dihybrid inheritance is the study of the inheritance of two characteristics that are determined by genes on different non-homologous chromosomes. Mendel showed monohybrid inheritance when he experimented with pea plants that differed from the parent, such as yellow and green seeds, and showed dihybrid inheritance when he did the first experiment where Mendel gave an estimated 20,000 pea plants over eight years, he obtained a definite law.