

Patterns of Inheritance

Study Information

I. Introduction

1. The people of Tibet live and work at altitudes above 13,000 feet, where the amount of oxygen that reaches the blood is 40% less than at sea level.
2. What makes the Tibetan people so able to tolerate their harsh surroundings?
3. Over the last several thousand years, the Tibetan population has accumulated several dozen genetic mutations that affect their circulatory and respiratory systems.

II. Mendel's Laws

A. 9.1 The study of genetics has ancient roots

1. The Greek physician Hippocrates explained inheritance by proposing that
 - a. particles called "pangenesis" travel from each part of an organism's body to eggs or sperm and
 - b. characteristics acquired during the parents' lifetime could be transferred to the offspring.
2. Hippocrates's idea is incorrect in several respects.
 - a. The reproductive cells are not composed of particles from somatic (body) cells.
 - b. Changes in somatic cells do not influence eggs and sperm.
3. The idea that hereditary materials mix in forming offspring, called the blending hypothesis, was
 - a. suggested in the 19th century by scientists studying plants but
 - b. later rejected because it did not explain how traits that disappear in one generation can reappear in later generations.

B. 9.2 The science of genetics began in an abbey garden

1. **Heredity** is the transmission of traits from one generation to the next.
2. **Genetics** is the scientific study of heredity.
3. Gregor Mendel
 - a. began the field of genetics in the 1860s,
 - b. deduced the principles of genetics by breeding garden peas, and
 - c. relied on a background of mathematics, physics, and chemistry.
4. In 1866, Mendel
 - a. correctly argued that parents pass on to their offspring discrete "heritable factors" and
 - b. stressed that the heritable factors (today called genes), retain their individuality generation after generation.
5. A heritable feature that varies among individuals, such as flower color, is called a **character**.
6. Each variant for a character, such as purple or white flowers, is a **trait**.
7. Perhaps the most important advantage of pea plants as an experimental model was that Mendel could strictly control matings.

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Peipei Pang



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