

TOPIC 1- GENETICS

Definition

- Genetics is the study of heredity and variation.
- Heredity is the passing on/ transmission of characteristics/ traits from the parents to the offspring/ young ones.
- Variation refers to observable differences that are seen in organisms of the same species or differences between organisms.
- Species refers to a group of organisms that are able to freely and naturally interbreed to give rise to a viable offspring.
- The offspring show slight differences from their parents. For example in human beings, members of the same family differ in shape of nose, skin colour and height.
- This is because of hereditary factors/ genes each of them acquires from parents and the effect of environment.

VARIATION.

- This is the differences among organisms of the same species.
- Variations in human beings are shown in tongue rolling, fingerprints, height, and type of earlobes (attached or free), sex, blood groups, skin colour, and weight.
- In plants variations are observed in length of leaves and internodes and size of fruits.

Types of variation.

- Discontinuous variation.
- Continuous variation.

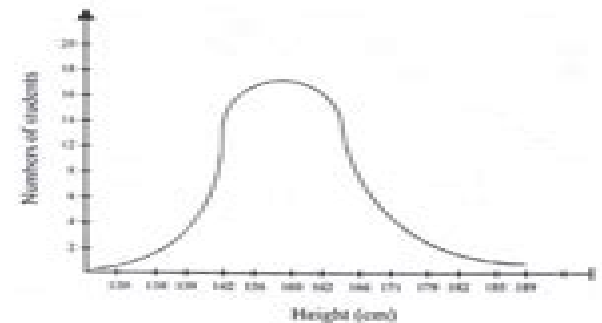
A. Discontinuous variation

- This is a type of variation where there is a distinct/ definite difference in a given characteristic/ without intermediates.
- It is controlled by genes and the environment has no effect.
- Examples include:
 - Ability to roll the tongue.
 - Sex i.e. male or female.
 - ABO Blood groups/ ABO Blood group system.
 - Presence of hair in the nose or ear pinna.
 - Fingerprints.
 - Free or attached earlobes.
 - Wing length, size of abdomen, eye color in *Drosophila melanogaster*.
 - Smooth/wrinkled seed coat, green/yellow color in garden peas.
 - Melanic/light forms in moths.

B. Continuous variation.

- This is a type of variation which shows a wide range of differences for the same characteristic/ trait from one extreme end to the other with intermediates.
- It is controlled by both genes and environment.
- Examples include:
 - Height.
 - Weight.
 - Seeds diameter.
 - Skin colour in humans.
 - Size of seeds and fruits.
 - Length of fingers in humans.
 - Milk yield in cows.
 - Length of leaves.

- For example, when the number of students is plotted against height it gives a **normal distribution curve**.



Causes of variation

- Gamete formation**—during gamete formation/ meiosis, the following meiotic processes cause variation namely:
 - Crossing over**—exchange of chromatid segments cause new gene combinations which causes variation.
 - Independent assortment**—this is the arrangement of homologous chromosomes at the equator of the spindle during metaphase I.
 - This is followed by segregation/ separation into different daughter cells. The resulting daughter cells/ gametes contain different genetic combination which brings about variation.
- Fertilization**—it allows parental genes to be brought together in different combination.
 - This causes different qualities of parents to be combined differently in the offspring.
- Mutations**—mutation is the spontaneous change in the genetic make-up of an organism. These changes may be inherited by the offspring causing variations.

Importance of variation

- Organisms/ individuals with advantageous traits/ variations are favored/ selected by nature and survive to pass on the traits to their offspring.
- It ensures propagation of favorable/ advantageous traits to the future generation/ offspring ensuring quality population/ species.

THE CHROMOSOMES

- They are thread-like structures found in the nuclei of plant and animal cells.
- They contain genetic material called **DNA (Deoxyribonucleic acid)**.
- Each chromosome is made up of two parallel strands called **chromatids**.
- Each pair of chromatids is connected at one point by a structure called **Centromere**.
- In body/ somatic cells each pair of chromosomes has the same length and shape but different versions of the same genes. They are therefore called **homologous chromosomes**.
- During sexual reproduction, each parent contributes one of the chromosomes of the homologous pair.

Form 4 Genetics

Sebastian Brünink



Form 4 Genetics:

This book delves into Form 4 Genetics. Form 4 Genetics is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Form 4 Genetics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Form 4 Genetics
- Chapter 2: Essential Elements of Form 4 Genetics
- Chapter 3: Form 4 Genetics in Everyday Life
- Chapter 4: Form 4 Genetics in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Form 4 Genetics. The first chapter will explore what Form 4 Genetics is, why Form 4 Genetics is vital, and how to effectively learn about Form 4 Genetics.
3. In chapter 2, the author will delve into the foundational concepts of Form 4 Genetics. This chapter will elucidate the essential principles that need to be understood to grasp Form 4 Genetics in its entirety.
4. In chapter 3, the author will examine the practical applications of Form 4 Genetics in daily life. This chapter will showcase real-world examples of how Form 4 Genetics can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Form 4 Genetics in specific contexts. This chapter will explore how Form 4 Genetics is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Form 4 Genetics. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Form 4 Genetics.

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