

13/5/22

GENETICS-1

Genetics: deals with the inheritance as well as the variation of characters from parents to offsprings.

Inheritance: process by which characters are passed on from parent to progeny. It is the basis of heredity.

Variation: degree by which progeny differ from their parents.

MENDEL'S LAW OF INHERITANCE

Gregor Mendel conducted his biometric experiments on garden peas for 7 years (1856-1863) and proposed the laws of inheritance in living organisms.

Character	Dominant trait	Recessive trait
Seed shape	 Round	 Wrinkled
Seed colour	 Yellow	 Green
Flower colour	 Purple	 White
Pod shape	 Full	 Constricted
Pod colour	 Green	 Yellow
Flower position	 Axial	 Terminal
Stem height	 Tall	 Dwarf

Mendel conducted such artificial pollination / cross pollination experiments using **several true-breeding pea lines**.

* A true breeding line is one that having undergone continuous self-pollination, shows the stable trait inheritance and expression for several generations.

* Mendel selected 14 true breeding pea plant varieties as pairs which were similar except for one character with contrasting traits.

Human knew as early as 5000-1000 BC that inheritance & variation was hidden in sexual reproduction.
eg: development of artificial cow in Punjab, development of many plant varieties.

Law of dominance

Law of segregation

Law of Independent assortment

Genes / alleles: Genes are the unit of inheritance - chemical molecules which present inside the nucleus of the cell have the ability to control our characters. They contain the information that is required to express a particular trait in an organism.

* Gene which code for a pair of contrasting traits are known as **alleles**, i.e., they are slightly different forms of the same gene.

Pure lines: offsprings of homozygous self fertilised parents (genetically similar) **genotype** - combination of 2 alleles.

phenotype - external appearance of a character / defining feature of a character.

Homozygous: combination of same chemical molecules in an individual / zygote for a character. eg: TT, yy

Heterozygous: combination of diff chemical molecules in an individual / zygote for a character. eg: Tt, Yy

Trait: varieties of a character.

1) Law of dominance:

1) characters are controlled by discrete units called factors.

2) Factors occur in pairs

3) In a dissimilar pair of factors, one member of the pair dominates (dominant), the other (recessive).

The law of dominance is used to explain the expression of only one of the parental characters in a monohybrid cross in the F₁ and the expression of both in the F₂. It also explains the proportion of 3:1 obtained at F₂.

Monohybrid cross: Inheritance of single character / single gene / 1 pair alleles.



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Table of Contents Instant Notes In Genetics

1. Understanding the eBook Instant Notes In Genetics
 - The Rise of Digital Reading Instant Notes In Genetics
 - Advantages of eBooks Over Traditional Books
2. Identifying Instant Notes In Genetics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Instant Notes In Genetics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Instant Notes In Genetics
 - Personalized Recommendations
 - Instant Notes In Genetics User Reviews and Ratings
 - Instant Notes In Genetics and Bestseller Lists
5. Accessing Instant Notes In Genetics Free and Paid eBooks
 - Instant Notes In Genetics Public Domain eBooks

- Instant Notes In Genetics eBook Subscription Services
- Instant Notes In Genetics Budget-Friendly Options
- 6. Navigating Instant Notes In Genetics eBook Formats
 - ePub, PDF, MOBI, and More
 - Instant Notes In Genetics Compatibility with Devices
 - Instant Notes In Genetics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Instant Notes In Genetics
 - Highlighting and Note-Taking Instant Notes In Genetics
 - Interactive Elements Instant Notes In Genetics
- 8. Staying Engaged with Instant Notes In Genetics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Instant Notes In Genetics
- 9. Balancing eBooks and Physical Books Instant Notes In Genetics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Instant Notes In Genetics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Instant Notes In Genetics
 - Setting Reading Goals Instant Notes In Genetics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Instant Notes In Genetics
 - Fact-Checking eBook Content of Instant Notes In Genetics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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