

CHAPTER 11 FUNDAMENTALS OF GENETICS

Early Concepts in Genetics

Genetics Prehistory - domestication of wolves into dogs of specific specialization of traits; breeding of plants.

BLENDING HYPOTHESIS – this explanation is developed by Aristotle.

- it says that the traits of the parents were blended in their offspring producing a form of intermediate between the two parents and the blended traits are passed on to the next generation.
- Example: Parents: *Tall and Short*
Children: *Medium*

GREGOR MENDEL – he is the father of Modern Genetics. He is an Austrian monk who studied and bread pea plants. His observations helped him to understand the patterns of heredity.

GENETICS – the scientific study of heredity.

Mendel's Investigations

Mendel's Experiments:

1. He cross-bred pea plants with different traits like (tall with short; wrinkled seed with smooth; green with yellow; etc.)
2. Observations: Mendel did several generations of breeding of pea plants
P : parents; **F1**: first generation offspring; **F2**: 2nd gen. offspring from self fertilization of F1

DOMINANT TRAIT – a trait that masks the appearance of a recessive gene
- a trait that can be showed in a hybrid.

RECESSIVE TRAIT – a trait that is masked by the dominant trait.
- a trait that did not show in a hybrid.

p. 131 shows us the summary of F1 results:

	Plant Height	Seed shape	Seed Color
P	TT x tt <i>tall</i> x <i>short</i>	RR x rr <i>round</i> <i>wrinkled</i>	YY x yy <i>yellow</i> x <i>green</i>
F1	Tt <i>tall</i>	Rr <i>round</i>	Yy <i>Yellow</i>
	After self pollination of F1: Tt x Tt	After self pollination of F1: Rr x Rr	After self pollination of F1: Yy x Yy
F2	3 tall, 1 short	3 round, 1 wrinkled	3 yellow, 1 green

Mendel's Hypothesis: that each trait is controlled by something called a "factor" within the organism.

GENE – the term used by scientists to indicate a genetic factor that controls a trait

Modern Biology Vocabulary Review Fundamentals Of Genetics

Frank Ayres



Modern Biology Vocabulary Review Fundamentals Of Genetics:

Modern Biology Vocabulary Review Fundamentals Of Genetics Book Review: Unveiling the Power of Words

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Table of Contents Modern Biology Vocabulary Review Fundamentals Of Genetics

1. Understanding the eBook Modern Biology Vocabulary Review Fundamentals Of Genetics
 - The Rise of Digital Reading Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Vocabulary Review Fundamentals Of 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 Modern Biology Vocabulary Review Fundamentals Of Genetics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Personalized Recommendations
 - Modern Biology Vocabulary Review Fundamentals Of Genetics User Reviews and Ratings
 - Modern Biology Vocabulary Review Fundamentals Of Genetics and Bestseller Lists

5. Accessing Modern Biology Vocabulary Review Fundamentals Of Genetics Free and Paid eBooks
 - Modern Biology Vocabulary Review Fundamentals Of Genetics Public Domain eBooks
 - Modern Biology Vocabulary Review Fundamentals Of Genetics eBook Subscription Services
 - Modern Biology Vocabulary Review Fundamentals Of Genetics Budget-Friendly Options
6. Navigating Modern Biology Vocabulary Review Fundamentals Of Genetics eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Vocabulary Review Fundamentals Of Genetics Compatibility with Devices
 - Modern Biology Vocabulary Review Fundamentals Of Genetics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Highlighting and Note-Taking Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Interactive Elements Modern Biology Vocabulary Review Fundamentals Of Genetics
8. Staying Engaged with Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Vocabulary Review Fundamentals Of Genetics
9. Balancing eBooks and Physical Books Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Vocabulary Review Fundamentals Of Genetics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Setting Reading Goals Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Biology Vocabulary Review Fundamentals Of Genetics
 - Fact-Checking eBook Content of Modern Biology Vocabulary Review Fundamentals Of 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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