

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 biolistic 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	Violet	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 F<sub>1</sub> and the expression of both in the F<sub>2</sub>. It also explains the proportion of 3:1 obtained at F<sub>2</sub>.

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



# Instant Notes In Genetics

**S.S. Nussey, S.A. Whitehead**



## **Instant Notes In Genetics:**

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early motor development. Peabody Developmental Motor Scales-Second Edition Apr 24, 2016 — PDMS-2 is composed of six subtests (Reflexes, Stationary, Locomotion, Object Manipulation, Grasping, Visual-Motor Integration) that measure ... PDMS-2 Peabody Developmental Motor Scales 2nd Edition Peabody Developmental Motor Scales | Second Edition (PDMS-2) combines in-depth assessment with training or remediation of gross and fine motor skills of ... Peabody Developmental Motor Scale (PDMS-2) The raw data scores are used in conjunction with the various appendices ... Application of the Peabody developmental motor scale in the assessment of ... Peabody Developmental Motor Scales-2 Administering and Scoring. Raw scores and the appendices A-C in the PDMS-II reference guide are utilized to calculate the following standardized scores: Age ... Guidelines to PDMS-2 Add scores from each subtest evaluated. -Example Grasping and Visual-Motor are subtests for fine motor evaluations. - Record the raw score in the Blue and ... Peabody Developmental Motor Scales - an overview The Peabody Developmental Motor Scales,30 a normreferenced tool commonly used to assess infants' fine and gross motor development, also is widely used ... Pixel Craft with Perler Beads: More Than 50 Patterns Inside this book you'll find over 50 super fun design ideas for digital-inspired jewelry, coasters, frames, boxes, toys, and more. You'll learn all the basics ... Pixel Craft with Perler Beads: More Than 50 Super Cool ... Bring pixel art to life with colorful Perler beads: 50+ imaginative design ideas & dozens of fun projects; Create retro-chic wearables, jewelry, and home décor ... Patterns for Hama, Perler, Pyssla, Nabbi, and Melty Beads ... Pixel Craft with Perler Beads: More Than 50 Super Cool Patterns: Patterns for Hama, Perler, Pyssla, Nabbi, and Melty Beads · Paperback · \$9.99. Pixel Craft with Perler Beads: More Than 50 Super Cool ... \$9.99 ... Create retro-chic pixelated wearables, jewelry, and home decor with 50 imaginative design ideas in this book. Perler(R) and other fusible craft beads ... Pixel Craft with Perler Beads: More Than 50 Super Cool ... Pixel Craft with Perler Beads: More Than 50 Super Cool Patterns: Patterns for Hama, Perler, Pyssla, Nabbi, and Melty Beads ... Up to sixty percent off. Shop now. Pixel Craft with Perler Beads (More Than 50 Super Cool ... This book title, Pixel Craft with Perler Beads (More Than 50 Super Cool Patterns: Patterns for Hama, Perler, Pyssla, Nabbi, and Melty Beads), ISBN: ... Pixel Craft with Perler Beads Inside this book you'll find over 50 super fun design ideas for digital-inspired jewelry, coasters, frames, boxes, toys, and more. You'll learn all the basics ... Pixel Craft with Perler Beads: More Than 50 Super Cool ... Buy the book Pixel Craft with Perler Beads: More Than 50 Super Cool Patterns: Patterns for Hama, Perler, Pyssla, Nabbi, and Melty Beads by choly knight at ... More Than 50 Super Cool Patter... by Choly Knight Pixel Craft with Perler Beads: More Than 50 Super Cool Patter... by Choly Knight ; Quantity. 3 sold. 2 available ; Item Number. 302853967254 ; Format. Paperback / ... Pixel Craft with Perler Beads: More Than 50 Super Cool ... Pixel Craft with Perler Beads: More Than 50 Super Cool Patterns: Patterns for Hama, Perler, Pyssla, Nabbi, and Melty Beads (Paperback). By Choly Knight. \$9.99. Solutions to Further Problems Risk Management and ... Solutions to Further Problems Risk Management and Financial Institutions Fourth Edition John C. Hull 1 Preface This manual contains answers to all the ... Options, Futures, and Other Derivatives: Course Design Options, Futures, and Other

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