

# GENETICS

#### A. Organismal Reproduction

- One of the most important requisites of all life, from the earliest life forms to present-day organisms, is reproduction.
- Characteristics or traits of organisms must be passed on during reproduction

#### B. Cellular Reproduction

- Life as we know it is based on the cell, the basic unit of life
- Cell theory states all organisms are made up of cells and come from cells

#### C. DOMA

 DNA (gloosynbogachic gold) is the molecule of inheritance in ALL collision forms of life.

#### D. Chromosopours

- Eukaryetic cells process macker DNA with structural and easy matic process, forming thrematic, which is visible as chromosomers during parts of the cell cycle.
- 2. Peukaryotic cells posseus simpler DNA.
- Sexually reproducing organisms typically have pairs of homologous ehromosomes (look-alike chromosomes)

#### IL RINA

- RNA (gibequefele gold) is found in several forms, most of which are used in protein synthesis
- RNA is the molecule of inheritance in some viruses, which are not cell-hand life forms

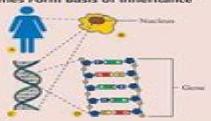
#### F. Gener

- 1. Functional unit of inheritance and basis for most traits
- Located at lisel, or specific positions, on DNA; to be preserved and transmitted
- Control biological processes through production of proteins and RNA

#### Basic Concepts

- Generappe refers to the general composition of the organism
- Phenotype refers to the abservable inherital swits (e.g., physical, behavioral, physiological characteristics); based on the inherited genetype

#### Genes Form Basis of Inheritance



#### G. Ploudy

- Homelogous chromosome pairs have the same loci, thus penes
- When both chromosomes are present, for each gene there are two representatives; this is represented by the symbol 2n or diplated condition.
- When only half of each homologous chromosome pair is present, such as in gametee, this is represented by the symbol n or haploid

#### HL Alliches

 Altomate forms of the same gone that could occupy the same locus (e.g., brown versus blue eye color)

- Humologous chromosomes process two representatives of each gene (i.e., 2n)
- Homorygous refers to the diploid condition where hoth allefor of the percept are identical to p. A.A. axi
- Heteroxygous refers to the diploid condition where both alleles of the generype are different (i.e., As)
- Dominant affects form a phenotypic expression regardless of the other affect on the matched chromosome of the homologue (e.g., "AA" or "Aa" genotypes will both express the phenotype designated by the "A" affect;
- 6. Registring affletes fail to form a phenotypic expression unless the other affels on the matched chromosome is also recessive (e.g., "na" genetype is the only may for the phenotype designated by the "a" affels to be expressed, assuming no other gene pairs influence inheritance [see epistasis discussion in Gene Action Categories, page 2])
- Additional types of allelic interactions will be discussed in subsequent sections
- Determining gamete types: Assuming there are no mutations, affelies personn in gametes are determined by the diploid genetypes of parents.
  - a. For homozygous genetypes, Auginizi generics will be identical for the given traits (i.e., AA individual sould produce "A" gametes only; AAbbindividual would produce "Ab" gametes only;
  - b. For hoterary goan genotypes, Augilial gamento will be aligned for the given traits (i.e., An individual social produce "A. B. "I gamence Audib individual would produce "A.B. Ab, aB, ab" gaments assuming two traits are unlinked [see Independent Assortment & Iblig brid Crosses, page 23)

#### Mendelian Genetics

#### A. Greece Mendel (1822-1884).

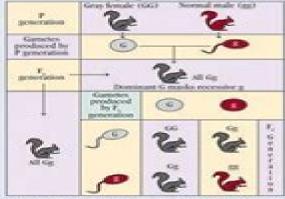
- An Austrian monk who, through his love and interest in nature, developed the basic ideas of genetics long before chromosomes and genes (i.e., molecular biology) were discovered.
  - a. He developed his ideas by studying plants; in particular, his most famous work involved courses with pea plant varieties
- His results and interpretations contrasted with a prevailing (as that time) theme of inhoritance called "Mending"—the concept that inherited traits mixed to create a composite characteristic in offspring

#### B. Mendel's Genetics Laws

- Segregation of Alternate Factors & Monohybrid Crosses
  - a. Specifically, Mendel discovered that with certain traits, there were individual plants which, if only crossed with other plants just like them, would almost always produce the exact same phenotype.

- i. These individuals were called true-breeders
- ii. We now call this condition homozygous
- b. He also found that some individuals with similar appearance, when crossed, would not have all offigring of the same kind.
- i. We now call this condition between goes
- Mendel decided to systematically do single-trait crosses to determine the causes for the previously stated observations.
- d. Specifically, a parental generation (P) initiated these experimental crosses by using two truebreeding pea plants for opposite phenotypes (e.g., purple versus white flowers)
- Offspring from this cross (F<sub>1</sub>) all showed only one of the traits (e.g., purple flowers), and this trait was called the dominant trait
- f. Traits from the P generation "did not bland" in these F<sub>1</sub> individuals
- g. Fr individuals, the hybrids, were cross-politicated the monological cross—to produce Fr individuals.
- b. V<sub>n</sub> of the F<sub>2</sub> individuals expressed the dominant trait, while V<sub>n</sub> expressed the trait of the other P parent (e.g., white) that had not been expressed in the F<sub>1</sub> potention—this latter trait was the recessive form.
- The expected phenogytic ratio of the F<sub>2</sub> individuals in monohybrid crosses would be 3:1
- The expected genergyle ruths of the F<sub>2</sub> individuals in monollybrid crosses would be 2:1:1
- k. The diagram at right, called a Punnett square, namenarizes results of a single-test cross similar to those done by Mendel on pea plants and other organistis;

#### Mendel's 1st Law: Segregation of Alternate Factors



- Mendel concluded there had to be some physical entities or "factors" passed on by each parent of a cross
  - i. We now know these to be gones.
  - He also concluded that these factors came in pairs, which then became impaired (in the production of gametra, which occurs during melosis) and recombined during fertilization
- The two P generation individuals had the factors in alternate forms called alleles (e.g., purple versus white flowers)

## **Genetics A Basic Guide**

**Rosina Ehmann** 

#### **Genetics A Basic Guide:**

Genetics Burton Guttman, Anthony Griffiths, David Suzuki, 2011-01-15 Details the history of the study of genetics from Mendel's discoveries to the decoding of the human genome and explains the fundamentals of genetics the function of genes An Introduction to The Gene Keys: A Beginners Guide To Better Understanding Yourself and DNA manipulation ,2024-06-24 An Introduction to The Gene Keys A Beginners Guide To Better Understanding Yourself Discover the transformative power of the Gene Keys with this comprehensive beginner's guide An Introduction to The Gene Keys is a must read for anyone seeking to unlock their full potential and embark on a profound journey of self discovery This essential ebook explores the 64 Gene Keys a revolutionary synthesis of ancient wisdom and modern science offering a step by step guide to navigating the path from shadow to gift to siddhi In this 50 page ebook you ll gain a deep understanding of the Gene Keys system and learn how to apply its teachings to your daily life Explore the three main sequences the Activation Sequence the Venus Sequence and the Pearl Sequence and uncover the hidden gifts and challenges within your own unique Hologenetic Profile Discover practical exercises contemplations and real life case studies that will help you integrate the wisdom of the Gene Keys into your personal growth and spiritual evolution Whether you re new to the Gene Keys or a seasoned explorer this ebook offers invaluable insights and guidance for your journey Inside An Introduction to The Gene Keys you ll find A clear and accessible introduction to the 64 Gene Keys and their corresponding shadow gift and siddhi expressions In depth explorations of the Activation Venus and Pearl Sequences and their role in your personal development Practical guidance on interpreting your Hologenetic Profile and working with your individual Gene Keys Inspiring case studies and examples of individuals who have experienced profound transformation through the Gene Keys Guided exercises contemplations and journaling prompts to support your journey of self discovery Extensive resources and recommendations for further study and exploration of the Gene Keys Embark on a life changing journey of self discovery and unlock your highest potential with An Introduction to The Gene Keys This comprehensive beginner's quide is an indispensable resource for anyone ready to explore the depths of their being and create a life of purpose fulfillment and joy The Science of Genetics: A Study Guide Cybellium, Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust

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appropriate mixtures of depth detail for the researcher along with clarity useful for the nonexpert Choice 1998 How To Treat Your MTHFR Gene Mutations The Right Way -The Genetic Advantage Russell Browne, 2022-04-20 This book is cutting edge in how to treat your MTHFR gene mutations the right way and includes advanced methods for more difficult cases The MTHFR gene is a vital part of your genetic make up that provides a process to deliver folate an essential nutrient into your body and is involved in hundreds of chemical reactions in the body. When you have a genetic mutation in the MTHFR gene you may have a reduced ability to produce the right type of folate that is essential to good health Understanding your MTHFR gene how it works and how it can affect your health is now more vital than ever as we see a large percentage of the population now suffering from mutations in the gene which has resulted in literally thousands of health problems largely overlooked by medical professionals But the MTHFR gene does not work alone it affects everyone differently depending on their own genetic makeup so it is extremely important to look deeper into this gene for yourself and understand just how deeply it may be affecting your health well being and how it can affect your life expectancy via disease and what you can do about it If you want to know how to treat your MTHFR gene mutations the right way with treatment protocols and guidelines including which supplements work best including in depth knowledge of how a genetic practitioner would treat the problem this book is for you Contains rarely talked about strategies that until now was not available to the public

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