

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.

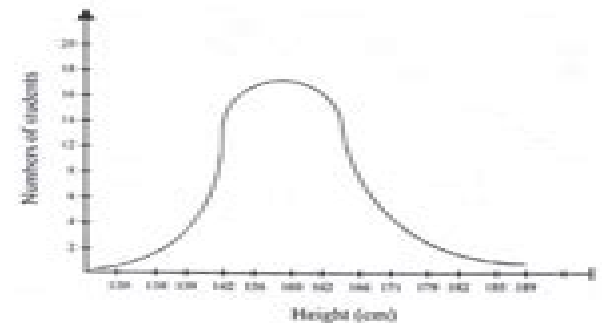
A. Discontinuous variation

- 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.
 - Stem 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

Jill S. Goldman



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Genetics P. K. Gupta,2007 1 Genetics Epigenetics and Genomics An Overview 2 Mendel s Laws of Inheritance3 Lethality and Interaction of Genes 4 Genetics of Quantitative Traits QTs 1 Mendelian Approach Multiple Factor Hypothesis 5 Genetics of Quantitative Traits 2 Biometrical Approach6 Genetics of Quantitative Traits 3 Molecular Markers and QTL Analysis7 Genetics of Quantitative Traits 4 Linkage Disequilibrium LD and Association Mapping8 Multiple Alleles and Isoalleles9 Physical Basis of Heredity1 The Chromosome Theory of Inheritance10 Physical Basis of Heredity2 The Nucleus and the Chromosome11 *Brenner's Encyclopedia of Genetics* Stanley Maloy,Kelly Hughes,2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner s Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner s Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not inexistence at the time of the first edition Timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies Interdisciplinary and global in its outlook as befits the field of genetics Brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics **Genetics and Reductionism** Sahotra Sarkar,1998-10-13 With the advent of the Human Genome Project there have been many claims for the genetic origins of complex human behavior including insanity criminality and intelligence But what does it really mean to call something genetic This is the fundamental question that Sahotra Sarkar s book addresses The author analyses the nature of reductionism in classical and molecular genetics He shows that there are two radically different kinds of reductionist explanation genetic reduction as found in classical genetics and physical reduction found in molecular genetics This important book clarifies the meaning of the term genetic shows how

molecular studies have affected genetics and provides the philosophical background necessary to understand the debates over the Human Genome Project It will be of particular interest to professionals and students in the philosophy of science the history of science and the social studies of science medicine and technology

Behavioral Genetics Ronald A. Carson, Mark A Rothstein, 2003-05-22 Nine essays examining the ethical cultural legal and biological underpinnings of behavioral genetics Scientists conducting human genome research are identifying genetic disorders and traits at an accelerating rate Genetic factors in human behavior appear particularly complex and slow to emerge yet are raising their own set of difficult ethical legal and social issues In *Behavioral Genetics The Clash of Culture and Biology* Ronald Carson and Mark Rothstein bring together well known experts from the fields of genetics ethics neuroscience psychiatry sociology and law to address the cultural legal and biological underpinnings of behavioral genetics The authors discuss a broad range of topics including the ethical questions arising from gene therapy and screening molecular research in psychiatry and the legal ramifications and social consequences of behavioral genetic information Throughout they focus on two basic concerns the quality of the science behind behavioral genetic claims and the need to formulate an appropriate ethically defensible response when the science turns out to be good This book is well written and stimulating The issues it raises are important for scientists and for those working in the legal and social services fields but they clearly also have relevance for everyone The *New England Journal of Medicine* This is the best introduction to behavioral genetics that I have read The varying viewpoints are presented with such clarity that this book should appeal to the general public and serve as a basic text for college courses Jay Katz Elizabeth K Dollard Professor Emeritus of Law Medicine and Psychiatry Harvey L Karp Professorial Lecturer in Law and Psychoanalysis Yale Law School

Genetics of Inborn Errors of Metabolism Elsayed Abdelkreem, Sunita Bijarnia-Mahay, 2023-10-27

Essentials of Genetics Pragya Khanna, 2013-12-30 Covers the classical and molecular fields of genetics to enable students to form an integrated overview of genetic principles This book provides up to date basic information on the subject that emphasizes the multifaceted complex questions of life The chapters are descriptive explicit and provided with relevant material that provides a logical transition of classical genetics into modern genetics

The Practical Guide to the Genetic Family History Robin L. Bennett, 2011-09-20 HELPS YOU DEVELOP AND ASSESS PEDIGREES TO MAKE DIAGNOSES EVALUATE RISK AND COUNSEL PATIENTS The Second Edition of *The Practical Guide to the Genetic Family History* not only shows how to take a medical family history and record a pedigree but also explains why each bit of information gathered is important It provides essential support in diagnosing conditions with a genetic component Moreover it aids in recommending genetic testing referring patients for genetic counseling determining patterns of inheritance calculating risk of disease making decisions for medical management and surveillance and informing and educating patients Based on the author's twenty five years as a genetic counselor the book also helps readers deal with the psychological social cultural and ethical problems that arise in gathering a medical family history and sharing findings with

patients Featuring a new Foreword by Arno Motulsky widely recognized as the founder of medical genetics and completely updated to reflect the most recent findings in genetic medicine this Second Edition presents the latest information and methods for preparing and assessing a pedigree including Value and utility of a thorough medical family history Directed questions to ask when developing a medical family history for specific disease conditions Use of pedigrees to identify individuals with an increased susceptibility to cancer Verification of family medical information Special considerations when adoptions or gamete donors are involved Ethical issues that may arise in recording a pedigree Throughout the book clinical examples based on hypothetical families illustrate key concepts helping readers understand how real issues present themselves and how they can be resolved This book will enable all healthcare providers including physicians nurses medical social workers and physician assistants as well as genetic counselors to take full advantage of the pedigree as a primary tool for making a genetic risk assessment and providing counseling for patients and their families Human Genetics - E-book S D Gangane,2012-04-25 This 4th edition is thoroughly updated version of the 3rd edition with its intact simple to the point presentation of knowledge which makes the book examination friendly This edition will be useful not only to the undergraduates but also to the postgraduates immunologists and geneticists A chapter on Stem Cell Therapy Inclusion of Summary at the end of each chapter The concept of personalized medicine under Pharmacogenetics Information updation in nearly all chapters A chapter on Stem Cell Therapy Inclusion of Summary at the end of each chapter The concept of personalized medicine under Pharmacogenetics Information updation in nearly all chapters **Understanding Genetics** Rajiv Tyagi,2009 **The Genetics of Osteoporosis and Metabolic Bone Disease** Michael J. Econs,2000-05-12 The explosive growth in the field of molecular biology over the last two decades has started to make a great impact on clinical medicine Genes have been cloned for diseases that were poorly understood only a decade ago Additionally investigators are increasingly aware that there are strong genetic components to complex disorders such as osteoporosis that are not classically thought of as genetic disorders New insights into the pathogenesis of metabolic bone diseases have been obtained from investigations into the molecular biology of these diseases and new therapies will become available based on these new insights In The Genetics of Osteoporosis and Metabolic Bone Disease I have assembled an internationally renowned group of experts to write the various chapters Each of the authors is an expert in his/her field who is currently performing research on the content of their chapter and have made important contributions to the understanding of the clinical features and pathophysiology of metabolic bone disease and genetics The first part of The Genetics of Osteoporosis and Metabolic Bone Disease addresses issues related to genetic contributions to the development of osteoporosis and the many factors that must be considered when searching for genes that predispose to osteoporosis The second section addresses recent advances in the clinical and molecular biological aspects of inherited metabolic bone disorders The last section reviews the latest techniques for finding genes that predispose to metabolic bone diseases **Snyder and Champness Molecular Genetics of Bacteria**

Tina M. Henkin, Joseph E. Peters, 2020-10-27 The single most comprehensive and authoritative textbook on bacterial molecular genetics Snyder the relationships among recombination replication and repair and the importance of organizing sequences in DNA the mechanisms of regulation of gene expression the newest advances in bacterial cell biology and the coordination of cellular processes during the bacterial cell cycle The topics are integrated throughout with biochemical genomic and structural information allowing readers to gain a deeper understanding of modern bacterial molecular genetics and its relationship to other fields of modern biology Although the text is centered on the most studied bacteria *Escherichia coli* and *Bacillus subtilis* many examples are drawn from other bacteria of experimental medical ecological and biotechnological importance The book s many useful features include Text boxes to help students make connections to relevant topics related to other organisms including humans A summary of main points at the end of each chapter Questions for discussion and independent thought A list of suggested readings for background and further investigation in each chapter Fully illustrated with detailed diagrams and photos in full color A glossary of terms highlighted in the text While intended as an undergraduate or beginning graduate textbook *Molecular Genetics of Bacteria* is an invaluable reference for anyone working in the fields of microbiology genetics biochemistry bioengineering medicine molecular biology and biotechnology This is a marvelous textbook that is completely up to date and comprehensive but not overwhelming The clear prose and excellent figures make it ideal for use in teaching bacterial molecular genetics Caroline Harwood University of Washington Watch an interview with the authors as they discuss their book further <https://www.youtube.com/watch?v=NEIdfatWUU>

Genetics for Health Professionals in Cancer Care Chris Jacobs, Lorraine Robinson, Patricia Webb, 2014-08-14 The role of genetics is becoming increasingly important in all aspects of healthcare and particularly in the field of cancer care *Genetics for Health Professionals in Cancer Care From Principles to Practice* equips health professionals with the knowledge and skills required for all aspects of managing cancer family history This includes taking an accurate cancer family history and drawing a family tree understanding cancer biology basic cancer genetics and the genes involved in hereditary breast ovarian prostate colorectal gastric and related gynaecological cancers and rare cancer predisposing syndromes assessing cancer risk and communicating risk information early detection and risk reducing measures available for those at increased risk and managing individuals with hereditary cancer Drawing on experiences of health professionals *Genetics for Health Professionals in Cancer Care* discusses the challenges raised and provides practical advice and insight into what happens when a patient is referred for genetic counselling and genetic testing including the psychological social and ethical issues faced by individuals and families with and at risk of hereditary cancer The book also provides practical guidance on setting up a cancer family history clinic in primary and secondary care *Genetics for Health Professionals in Cancer Care* is essential reading for healthcare professionals working with cancer patients and their families and is an ideal reference text for non specialists working in cancer genetics *Soybean Genetics Newsletter* ,1996 **Genetic Counseling for Adult**

Neurogenetic Disease Jill S. Goldman, 2014-12-01 The adult patient diagnosed with or at risk for a neurogenetic disease has many questions and concerns for the genetic counselor the neurologist and other practitioners Because of the emotional and potentially life altering impact of these diseases on the patient and family counseling can be especially challenging A rare hands on guide to the subject Genetic Counseling for Adult Neurogenetic Disease deals with core issues that differentiate adult neurogenetic counseling from its more familiar pediatric counterpart This innovative book with accompanying videos is designed to fill in deficits in this area typical of training programs in genetic counseling which have pediatrics and prenatal concentrations and neurology which rarely cover genetic counseling For each condition featured chapters include a detailed overview of genetic symptoms diagnostic criteria and management plus guidelines for asking and answering pertinent questions The major concentration however is on genetic counseling issues and case histories illustrating these issues As an added dimension the accompanying videos depict representative issues and challenges in genetic counseling for specific diseases in addition to the basics of a neurological examination Among the conditions discussed Movement disorders including Parkinson s disease Dementias including Alzheimer s disease Stroke Motor neuron diseases Neuropathies and channelopathies Adult muscular dystrophies Neurocutaneous syndromes Plus a section on neurological and neuropsychological evaluation This is information that will stay relevant as technologies change and genetic understanding evolves Genetic Counseling for Adult Neurogenetic Disease offers advanced clinical wisdom for genetic counselors as well as neurologists neuropsychologists and other referring clinicians

Public Health Genomics Paul Lacaze, Gareth

Baynam, 2019-10-17 The use of human genetic data has the potential to significantly improve healthcare however a range of scientific ethical and practical implementation barriers remain GENETICS FOR CONCEPT ITEFA DEGEFA, 2017-02-15

The aim of this book is to show brief concept of genetics based on selected ideas and related facts Additional information is presented in the introduction with a chronological list of important discoveries and advances in the history of genetics in an appendix with supplementary data in tables and in references This book is written for two kinds of readers for students of biology and genetics as an introductory over view and for their teachers as a teaching aid Other interested individuals will also be able to gain information about current developments and achievements in this rapidly growing field

Essential Genetics Daniel L. Hartl, Elizabeth W. Jones, 2006 Completely updated to reflect new discoveries and current thinking in the field the Fourth Edition of Essential Genetics is designed for the shorter less comprehensive introductory course in genetics The text is written in a clear lively and concise manner and includes many special features that make the book user friendly Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission mutation expression and regulation The text also helps students develop skills in problem solving achieve a sense of the social and historical context in which genetics has developed and become aware of the genetic resources and information available through the Internet

Form 4 Genetics Book Review: Unveiling the Magic of Language

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