

# The basics of genetics



# Genetics A Basic Guide

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## 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 and DNA manipulation *Genetics in Simple Terms- A Beginner's Guide to Genetics* Dr. Udaybhan Yadav, Dr. Amita Chandanshive, 2024-11-21 [Genetics -- a Basic Guide](#) I. J. Pedder, E. G. Wynne, 1972 *Introduction to Genetics* Terry A. Brown, 2025-02-18 Nowadays genetics focuses on DNA Just like the first edition the theme of this new edition Introduction to Genetics A Molecular Approach is therefore the progression from molecules DNA and genes to processes gene expression and DNA replication to systems cells organisms and populations This progression reflects both the basic logic of life and the way in which modern biological research is structured The molecular approach is particularly suitable for students for whom genetics is part of a broader program in biology biochemistry the biomedical sciences or biotechnology This book presents the basic facts and concepts with enough depth of knowledge to stimulate students to move on to more advanced aspects of the subject This second edition has been thoroughly updated to cover new discoveries and developments in genetics from the last ten years There are new chapters that introduce important techniques such as DNA sequencing and gene editing and the applications of genetics in our modern world are covered in chapters describing topics as diverse as gene therapy and the use of ancient DNA to study prehistoric ecosystems Key Features This book provides a molecular approach to the study of genetics It is a highly accessible and well structured book with chapters organized into four parts to aid navigation It presents high quality illustrations to elucidate the various concepts and mechanisms Each chapter ends with a Key Concepts section which serves to summarize the most essential points Self study questions enable the reader to assess their comprehension of chapter content and discussion topics facilitate a deeper understanding of the material by encouraging conversation and critical evaluation Key terms are emboldened throughout the text and are listed at the end of each chapter and definitions can be found in the Glossary For instructors who adopt the book an affiliated question bank is free to download

**Genetics** Daniel Hartl, Maryellen Ruvolo, 2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation

**Genetics** Daniel L. Hartl, 2011-08-05 *Human Genome*, 1997 *Genes and DNA* Charlotte K. Omoto, 2004-04-07 Covering newsworthy aspects of contemporary biology gene therapy the Human Genome Project DNA testing and genetic engineering as well as fundamental concepts this book written specifically for nonbiologists discusses classical and molecular genetics quantitative and population genetics including cloning and genetic diseases and the many applications of genetics to the world around us from genetically modified foods to genetic testing With minimal technical terminology and jargon *Genes and DNA* facilitates conceptual understanding Eschewing the organization of traditional

genetics texts the authors have provided an organic progression of information topics are introduced as needed within a broader framework that makes them meaningful for nonbiologists The book encourages the reader to think independently always stressing scientific background and current facts Broadening the Genetic Base of Grain Legumes Mohar Singh, Ishwari Singh Bisht, Manoranjan Dutta, 2014-10-28 Grain legumes play significant and diverse role in the farming systems and provide nutrition security to the largely vegetarian and relatively poorer people around the world These are ideal crops for achieving three simultaneous developmental goals viz reducing poverty improving human health and nutrition and enhancing ecosystem resilience Globally grain legumes are the second most important crop group next only to cereals but a large proportion of area of it is under rainfed low input systems as compared to cereals contributing to lower yields The other important factor responsible for reduced yield in grain legumes is the narrow genetic base of the present day pulse varieties In order to break the yield barriers of these cultivars new sources of genes alleles need to be identified and suitably incorporated into the adapted background The information on various aspects of grain legume improvement although has been considerable in the recent past these information are highly scattered and not available at one place The present book consists of comprehensive and latest crop wise information on important grain legumes of the world including their distribution gene pool systematics status of genetic and genomic resources production constraints traits of importance crop improvement methodologies both conventional as well as contemporary and future strategies to be adopted for comprehensive grain legume improvement in various agro ecological target areas of the globe The chapters have been contributed by eminent crop experts from across the world engaged in research in their respective crops for the past several years thus providing a rare insight into the crop specific constraints and prospects drawing from their rich overall experience The book therefore will be a useful source of information to the grain legume researchers students policy planners and developmental experts alike *PRINCIPLES OF HUMAN GENETICS* Curt Stern, 1960 **Genetics**, 2002

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