

FIFTH EDITION



HUMAN MOLECULAR GENETICS

TOM STRACHAN
ANDREW P. READ



CRC Press
Taylor & Francis Group

A GARLAND SOURCE BOOK

Human Molecular Genetics

T. Strachan



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Human Molecular Genetics Peter Sudbery, 2002 This second edition of Human Molecular Genetics continues to provide a clear introduction to this complex and fast moving field Now updated and revised throughout the material covered has been carefully selected and structured to provide a concise overview for students studying the subject as part of a general biology genetics or medical degree A milestone in science has been reached through the publication of draft sequences of the human genome and this is reflected in changes to the book A new chapter details the methodology used what was revealed about genome structure and evolution and how the genome sequence will be exploited in diagnosing and treating common diseases The chapter on complex diseases has also been completely rewritten to reflect new strategies for searching for the genes involved in such disorders Finally the human genome project has opened up new prospects in population genetics and evolution and these are discussed in a rewritten chapter Features Concise up to date introduction to the subject New chapters on sequencing and structure of the human genome New chapter on complex disorders including population surveys using SNPs Fully revised chapter on human population genetics and evolution Boxed case studies and techniques Includes important genetic disorders and genetic counselling References updated through a linked Web site The text is aimed at courses in Human Genetics Human Molecular Genetics and The Molecular Basis of Disease taught within Biology Biochemistry Biomolecular Sciences Biomedical Sciences Genetics and medical and other health care degrees Peter Sudbery is Senior Lecturer in Genetics at the Department of Molecular Biology and Biotechnology at the University of Sheffield The Cell and Molecular Biology series provides introductions to key exciting areas of cell and molecular biology stimulating student s imaginations and initiative to bridge the gap between memorising concepts and the active approach needed for research and literature review projects This active learning series also introduces students to experimental design and information retrieval and analysis including exploration of the World Wide Web

An Introduction to Human Molecular Genetics Jack J. Pasternak, 2005-06-03 An Introduction to Human Molecular Genetics Second Edition Jack J Pasternak The Second Edition of this internationally acclaimed text expands its coverage of the molecular genetics of inherited human diseases with the latest research findings

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Human Molecular Genetics [journal]. ,1992 **Human Molecular Genetics 3** T. Strachan,Andrew P. Read,2004 This work provides guidance on the principles underlying modern human molecular genetics This new edition has been updated to take account of the changes in our understanding of this field since the late 1990s *Human Molecular Genetics* Tom Strachan,Andrew Read,2018-03-29 Human Molecular Genetics is an established and class proven textbook for upper level undergraduates and graduate students which provides an authoritative and integrated approach to the molecular aspects of human genetics While maintaining the hallmark features of previous editions the Fourth Edition has been completely updated It includes new Key Concepts at the beginning of each chapter and annotated further reading at the conclusion of each chapter to help readers navigate the wealth of information in this subject The text has been restructured so genomic technologies are integrated throughout and next generation sequencing is included Genetic testing screening approaches to therapy personalized medicine and disease models have been brought together in one section Coverage of cell biology including stem cells and cell therapy studying gene function and structure comparative genomics model organisms noncoding RNAs and their functions and epigenetics have all been expanded

Human Molecular Genetics Jamie Benton &,2019-01-23 Molecular Genetics is one of the fast moving fields of science that has undergone a variable revolution over the last two decades leading to major advances in the understanding of gene structure and function at molecular level Human Molecular Genetics is the study of the molecular basis of human genetic disease developmental genetics neurogenetics chromosome structure and function molecular aspects of cancer genetics gene therapy biochemical genetics major advances in gene mapping and understanding of genome organization Genetics is the

study of how genes bring about characteristics or traits in living things and how those characteristics are inherited Genes are portions of DNA molecules that determine characteristics of living things Through the processes of meiosis and reproduction genes are transmitted from one generation to the next Heredity is a biological process where a parent passes certain genes onto their children or offspring Genetics uses information from one or two genes to explain a disease or condition whereas genomics examines all of the genetic information to determine biological markers predisposing an individual to disease Genes are the best understood subsequence of DNA code Most genes clearly encode the data sequence representing a particular protein However all of the genes together are only a small part of DNA code The 30 000 odd genes in human DNA might only make up 4% of human DNA This book presents a view in depth of the principal aspects of life science Each chapter treats a discrete topic within the scope of biology and each is designed for students who are exposed to the topics for the first time Since considerable ferment exists in the biological sciences today it is increasingly important to keep pace with current developments

Human Molecular Genetics, 1996-05-23 Human Molecular Genetics is a practical guide to the applications of molecular biology and genetics techniques to human cells A wide range of experimental procedures for investigating human genes and genomes are presented Mutation Detection in Human Genes chemical mismatch cleavage DNA mini sequencing SSCP method RT PCR electrophoretic mobility shift assay EMSA protein truncation test chromosome deletion analysis Gene Mapping Cloning Sequencing gene linkage determination large capacity cloning system cDNA isolation differential display method primer based DNA sequencing Transcription Promoters Transcription Factors mRNA promotor mutation analysis transcription factor identification mRNA protein interaction characterization RNA Editing Ribozymes Antisense RNA mammalian RNA editing assays ribozymes as genetic tools antisense RNA technology Genome Recombination Amplification recombination assays for mammalian cells gene amplification measurement Receptors Signal Transduction intra cellular receptor characterization analysis of signal transduction genes The Mouse as a Model System for Human Molecular Genetics mouse genome methods mouse crosses somatic cell hybrids YACs mouse model for cardiovascular disease *Human Molecular Genetics* T. Strachan, 1999 *Human Molecular Genetics* Peter Sudbery, Ian Sudbery, 2009 This is a concise overview of a complex and fast moving field The text explains amongst many things the special problems encountered in human genome analysis Boxed case studies are incorporated to help student comprehension of this topic

Human Gene Evolution David Neil Cooper, 1999-11-03 Presents the principles of human gene evolution in a concise and easy to understand fashion Uses examples of how evolutionary processes have molded present day genes drawn from the evolution of humans and other primates as well as from more primitive organisms With increasing attention in this expanding area this review forms a timely publication of our current knowledge of this important field Structure and function in the human genome The evolution of gene structure Mutational mechanisms in evolution *Human Molecular Genetics* Tom Strachan, 1999 **Human Genetics** Edwin H. McConkey, 1993 Begins with molecular characterization of the

human genome rather than the conventional descriptions of Mendelian inheritance pedigree analysis and chromosome abnormalities and maintains this emphasis on understanding human genetics in molecular terms throughout Suitable as a text for biology Human Molecular Biology Richard J. Epstein,2003 **Human Molecular Biology** Richard J. Epstein,2002-10-24 Human Molecular Biology is an introduction to the molecular basis of health and disease for the new generation of life scientists and medical students By integrating cutting edge molecular genetics and biochemistry with the latest clinical information the book weaves a pattern that unifies biology with syndromes genetic pathways with developmental phenotypes and protein function with drug action Lavishly illustrated throughout with two color diagrams and full color clinical pictures this text brings the complexities and breadth of human molecular biology clearly to life

Protocols in Human Molecular Genetics ,1990 *The Human Molecular Genetics Series* ,1993 **Human Molecular Genetics** Stone,1998-03-01

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