Human Molecular Genetics, Third Edition

Tom Strachan, Andrew Read
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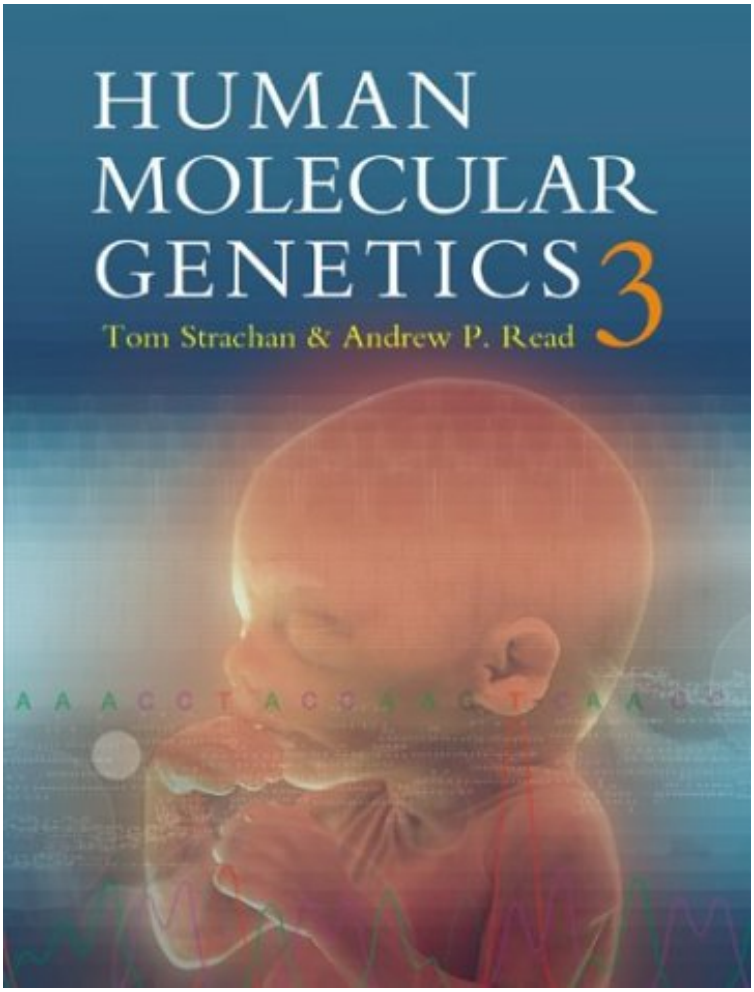

#888591 in Books Garland Science/Taylor Francis Group 2003-11-21Original language:EnglishPDF # 1 1.39 x 8.32 x 11.47l, 1.10 #File Name: 0815341822696 pages | File size: 59.Mb

Tom Strachan, Andrew Read : Human Molecular Genetics, Third Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised Human Molecular Genetics, Third Edition:

0 of 0 people found the following review helpful. cool book, I like itBy Michelle SutherlandI like it but my son says you can get most of this information online so.. I guess I missed the boat on that one. I am reading it so it is no waste.2 of 3 people found the following review helpful. Good book, nice figures.By Bonnie BI've only read through chapter 8 so far, but the text is understandable and the figures are clear and helpful--especially in the human genome project chapter, which had the potential to be very confusing.6 of 6 people found the following review helpful. Get up to speed fast by reading this bookBy Thomas P. CarusoThough I have been interested in molecular genetics for decades, I have been out-of-touch with the excitement in genetics that is percolating out of the huge amount of data coming from various genome sequencing projects. Want to know why there is so much excitement? Then I suggest you read this book.The book is up-to-date not only with the latest information about what is happenning in molecular genetics,

with a focus on human genetics, but also with the latest molecular biology methods needed to understand the field. Anyone with a basic biochemistry background could pick up this book and get a lot out of it, though the more statistics you know the better you will understand components on linkage analysis.I plan to use this book as a reference for my developing research interests in this field. When I am reading a paper or after listening to a presentation, I can go right to the information in this book to refresh my knowledge about the method or general thinking about a particular topic. The book adds to this experience by providing key references for just about any related subject covered in the book in a more general fashion. I will be reading these references in specific areas close to my interest.

Professors Tom Strachan Andrew Read awarded the Education Award 2007 of the ESHG for their outstanding contribution to the dispersal of knowledge of modern human molecular genetics among students and professionals. Following the completion of the Human Genome Project the content and organization of the third edition of Human Molecular Genetics has been thoroughly revised. * Part One (Chapters 1-7) covers basic material on DNA structure and function, chromosomes, cells and development, pedigree analysis and the basic techniques used in the laboratory. * Part Two (Chapters 8-12) discusses the various genome sequencing projects and the insights they provide into the organisation, expression, variation and evolution of our genome. * Part Three (Chapters 13-18) focuses on mapping, identifying and diagnosing the genetic causes of mendelian and complex diseases and cancer. * Part Four (Chapters 19-21) looks at the wider horizons of functional genomics, proteomics, bioinformatics, animal models and therapy.There are new chapters on cells and development and on functional genomics. The sections on complex diseases have been completely rewritten and reorganized, as has the chapter on Genome Projects. Other changes include a new section on molecular phylogenetics (Chapter 12) and the introduction of 'Ethics Boxes' to discuss some of the implications of the new knowledge. Virtually every page has been revised and updated to take account of the stunning developments of the past four years since the publication of the last edition of Human Molecular Genetics.Features:* Integration of Human Genome Project data throughout the book* Two new chapters 'Cells and Development' (Chapter 3) and 'Beyond the Genome Project: Functional Genomics, Proteomics and Bioinformatics' (Chapter 19)* Completely rewritten and reorganised coverage of complex disease genetics* Increased emphasis on gene function and on applications of genetic knowledge, including ethical issues* More prominence given to novel approaches to treating disease, such as cell-based therapies, pharmacogenomics, and personalised medicine* Special topic boxes that include detailed coverage of ethical, legal and social issues, including eugenics, genetic testing and discrimination, germ-line gene therapy and genetic enhancement, and human cloning* Contains two indices: a general index and one that contains names of diseases and disordersSupplements:Art of HMG3 (CD-ROM) 0-8153-4183-0: 34.00

"This book is an excellent companion for students in human genetics or for researchers that want to gain background and knowledge in this field." (HumanGenetics Journal)From the PublisherA complete, up-to-the-minute account of human molecular genetics from basic principles to current practice. Designed to engage and motivate students the text covers the organization, expression and evolution of the human genome. Features a comprehensive chapter on the latest progress in the Human Genome Project.About the AuthorProfessors Tom Strachan Andrew Read awarded the Education Award 2007 of the ESHG for their outstanding contribution to the dispersal of knowledge of modern human molecular genetics among students and professionals. Tom Strachan is Scientific Director of the Institute of Human Genetics and Professor of Human Molecular Genetics at the University of Newcastle. Tom's early research interests were in multigene family evolution and interlocus sequence exchange, notably in the HLA and 21-hydroxylase gene clusters. While pursuing the latter, he became interested in medical genetics and disorders of development. His most recent research has been on the molecular genetics of early mammalian development, and focuses on building an electronic atlas of gene expression in early human development and investigating the function of inversin, a major determinant of the left-right axis.Andrew Read is a Professor of Human Genetics at Manchester University. Andrew has been particularly concerned with making the benefits of DNA technology available to people with genetic problems. He established one of the first DNA diagnostic laboratories in the UK over 20 years ago (it is now one of two National Genetics Reference Laboratories), and was founder chairman of the British Society for Human Genetics, the main professional body in this area. His own research is on the molecular pathology of various hereditary syndromes, especially hereditary hearing loss.