

FIFTH EDITION



HUMAN MOLECULAR GENETICS

TOM STRACHAN
ANDREW P. READ



CRC Press
Taylor & Francis Group

A GARLAND SOURCE BOOK

Strachan Human Molecular Genetics

**Nicholas J. Talley, Simon O'Connor, Brad
Frankum**



Strachan Human Molecular Genetics:

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 Tom Strachan, Andrew Read, 2018-12-20 Human Molecular Genetics has been carefully crafted over successive editions to provide an authoritative introduction to the molecular aspects of human genetics genomics and cell biology Maintaining the features that have made previous editions so popular this fifth edition has been completely updated in line with the latest developments in the field Older technologies such as cloning and hybridization have been merged and summarized coverage of newer DNA sequencing technologies has been expanded and powerful new gene editing and single cell genomics technologies have been added The coverage of GWAS functional genomics stem cells and disease modeling has been expanded Greater focus is given to inheritance and variation in the context of populations and on the role of epigenetics in gene regulation Key features Fully integrated approach to the molecular aspects of human genetics genomics and cell biology Accessible text is supported and enhanced throughout by superb artwork illustrating the key concepts and mechanisms Summary boxes at the end of each chapter provide clear learning points Annotated further reading helps readers navigate the wealth of additional information in this complex subject and provides direction for further study Reorganized into five sections for improved access to related topics Also new to this edition brand new chapter on evolution and anthropology from the authors of the highly acclaimed Human Evolutionary Genetics A proven and popular textbook for upper level undergraduates and graduate students the new edition of Human Molecular Genetics remains the go to book for those studying human molecular genetics or genomics courses around the world Human Molecular Genetics T.

Strachan, Andrew P. Read, 2011 Rev ed of Human molecular genetics 3 Tom Strachan and Andrew Read 3rd ed c2004

Problems and Solutions for Strachan and Read's Human Molecular Genetics David Matthes, 2000-11-21 This problems and solutions book covering the molecular aspects of human genetics will serve as a companion to the second edition of Strachan and Read's Human Molecular Genetics There will be 22 chapters divided into seven parts Fundamentals of genes and chromosomes Fundamentals of DNA technology Features of the human genome Mapping the human genome

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Color Atlas of Genetics Eberhard Passarge,2012-12-12 From reviews of previous editions A remarkable achievement concise but informativeNo geneticist or physician interested in genetic diseases should be without a copy American Journal of Medical Genetics Ever since the international Human Genome Project achieved its extraordinary goal of sequencing and mapping the entire human genomewith far reaching implications for understanding the causes and diagnosis of human genetic disordersprogress in the field has been rapid In the fourth edition of the bestselling Color Atlas of Genetics readers will get a full overview of the field today with an emphasis on the interface between fundamental principles and practical applications in medicine The book utilizes the signature Flexibook format designed for easy visual learning and retention and is invaluable for students clinicians and scientists interested in keeping current in this fast moving area New topics in the fully revised fourth edition of this highly praised atlas Genetic signaling pathways involved in genetic disorders DNA repair systems Genomic disorders and genome wide association studies Cancer genomes Ciliopathies neurocristopathies and other groups of causally related disorders Epigenetic changes in certain disorders Illustrated outline of human evolution With almost 200 stunning color plates concisely explained on facing pages and including useful tables of data a glossary of terms key references and online resources this book makes every concept clear and accessible It is an excellent introduction to genetics and basic genomics for students of medicine and biology as well as an ideal teaching aid and refresher for investigators in any field of medicine or science

An Introduction to Genetics for Language Scientists Dan Dediu,2015-03-12 An introduction to genetics aimed at language scientists with carefully selected concepts methods and findings exploring language and speech

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