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Tom Strachan is Scientific Director of the Institute of Human Genetics and Professor of Human Molecular Genetics at Newcastle University, UK, and is a Fellow of the Academy of Medical Sciences and a Fellow of the Royal Society of Edinburgh. Tom's early research interests were in multigene family evolution and interlocus sequence exchange, notably in the HLA and 21-hydroxylase gene clusters.

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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.

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 disorders Supplements: Art of HMG3 (CD-ROM) 0-8153-4183-0: £34.00

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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.

Rev. ed. of: Human molecular genetics 3 / Tom Strachan and Andrew Read. 3rd ed. c2004.

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, Comparative genomics, Human genetic diseases, Dissecting and manipulating genes). Within each chapter, there will be 5 - 10 multi-part open-ended problems, 5-10 review questions, 10 multiple choice questions. Where appropriate bioinformatics questions will also be included. The book will be heavily illustrated consisting of approximately 100 black and white photos and 200 black and white line drawings that will be designed and formatted similarly to its companion textbook. While the problems book is intended as a companion to Human Molecular Genetics it can also be used independently from the textbook by both students and instructors. Where most problems books are priced for students we envision that the book will be purchased most frequently by instructors and thus have priced it accordingly. However it still remains within reach for students who can purchase the textbook and problems book for under \$100.00.

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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 and discoveries. Using a unique, systems-based approach, the text offers readers a thorough explanation of the gene discovery process and how defective genes are linked to inherited disease states in major organ and tissue systems. All the latest developments in functional genomics, proteomics, and microarray technology have been thoroughly incorporated into the text. The first part of the text introduces readers to the fundamentals of cytogenetics and Mendelian genetics. Next, techniques and strategies for gene manipulation, mapping, and isolation are examined. Readers will particularly appreciate the text's exceptionally thorough and clear explanation of genetic mapping. The final part features unique coverage of the molecular genetics of distinct biological systems, covering muscle, neurological, eye, cancer, and mitochondrial disorders. Throughout the text, helpful figures and diagrams illustrate and clarify complex material. Readers familiar with the first edition will recognize the text's same lucid and engaging style, and will find a wealth of new and expanded material that brings them fully up to date with a current understanding of the field, including:

- * New chapters on complex genetic disorders, genomic imprinting, and human population genetics
- * Expanded and fully revised section on clinical genetics, covering diagnostic testing, molecular screening, and various treatments

This text is targeted at upper-level undergraduate students, graduate students, and medical students. It is also an excellent reference for researchers and physicians who need a clinically relevant reference for the molecular genetics of inherited human diseases.

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Molecular and Genetic Analysis of Human Traits will address the science student human genetics market. Although incorporating two basic themes: how do we establish that a trait is hereditary, and how is the human genome organized, it will also address relevant clinical examples and key related ethical issues. New attractive features have been added, including a chapter project, and end of chapter exercises which rely on real data. Each chapter includes end of chapter exercises, and references. In-text examples and internet references are cited. Most figures will be 2 color, with some 4 color inserts.

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