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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 Page 45/91

beeman restructured so genomic technologies are integrated throughout, and next generation sequencing is included. Genetic testing, screening, approaches to therapy, personalized Page 46/91

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 Page 47/91

genomics, model organisms, noncoding RNAs and their functions, and epigenetics have all been expanded.

Professors Tom Strachan & Andrew Read awarded the Education Award Page 48/91

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 Page 49/91

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, Page 50/91

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 Page 51/91

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 Page 52/91

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 Page 53/91

dells 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 Page 54/91

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 Page 55/91

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 Page 56/91

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such as cloning and cular hybridization have been merged and summarized, coverage of newer DNA sequencing technologies has been expanded, and powerful new gene editing and single-cell genomics Page 64/91

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 Page 65/91

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 Page 66/91

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 Page 67/91

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 Page 68/91

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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: Page 70/91

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 Page 71/91

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 Page 72/91

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 Page 73/91

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 Page 74/91

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 Page 75/91

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 Page 76/91

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 Page 77/91

\$100.00.

Molecular An Introduction to Human Molecular Genetics Second Edition Jack J. Pasternak The Second Edition of this internationally acclaimed text expandsits coverage of the

molecular genetics of inherited human diseaseswith the latest research findings and discoveries. Using a unique,s ystems-based approach, the text offers readers a thorou ghexplanation of the gene

discovery process and how defective genesare linked to inherited disease states in major organ and tissuesystems. All the latest developments in functional genom ics, proteomics, and microarray Page 80/91

technology have been thoroughlyi ncorporated into the text. The first part of the text introduces readers to the fundamentalsof cytogenetics and Mendelian genetics. Next, techniques andstrategies Page 81/91

for gene manipulation, mapping, and isolation areexamined. Readers will particularly appreciate the t ext'sexceptional ly thorough and clear explanation of genetic mapping.The Page 82/91

final part features unique coverage of the molecular geneticsof distinct biological systems, covering muscle, neurological, eye,cancer, and mitochondrial disorders. Throughout the Page 83/91

ltext.an helpfulfigures and diagrams illustrate and clarify complex material. Readers familiar with the first edition will recognize the text'ssame lucid and engaging style, and will find a wealth of Page 84/91

new andexpanded material that brings them fully ups to date with a currentun derstanding of the field, including: * New chapters on complex genetic disorders, genomic imprinting, and human population
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denetics * Expanded and fully revised section on clinical genetics, coveri ngdiagnostic testing, molecular screening, and v arioustreatments This text is targeted at upper-level Page 86/91

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that antrait is hereditary, and how is the human genome CS organized, it will also address relevant clinical examples and key related ethical issues. New attractive features have been added. Page 89/91

including a chapter project, and end of chapter exercises which rely on real data. Each chapter includes end of chapter exercises, and references. Intext examples and internet references are Page 90/91

cited. Most figures will be 2 color, with some 4 color inserts.

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