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have 46 chromosomes. Two of these, X and Y, are sex chromosomes.

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Nondisjunction. Section 14-3: Human Molecular Genetics The Human Genome Project is an attempt to sequence all human DNA. In gene therapy, an absent or faulty gene is replaced by a normal, working gene. Molecular Genealogy Find out how people are using DNA to learn about their ancestry. 14-3 DNA Fingerprinting Chapter 14: The Human Genome • Page

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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,systems-based approach, the text offers readers a thoroughexplanation 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 genomics,proteomics, and microarray technology have been thoroughlyincorporated into the text. The first part of the text introduces readers to the fundamentalsof cytogenetics and Mendelian genetics. Next, techniques andstrategies for gene manipulation, mapping, and isolation areexamined. Readers will particularly appreciate the text'sexceptionally thorough and clear explanation of genetic mapping.The final part features unique coverage of the molecular geneticsof distinct biological systems, covering muscle, neurological, eye,cancer, and mitochondrial disorders. Throughout

the text, 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 new andexpanded material that brings them fully up to date with a currentunderstanding of the field, including: * New chapters on complex genetic disorders, genomic imprinting,and human population genetics * Expanded and fully revised section on clinical genetics, coveringdiagnostic testing, molecular screening, and varioustreatments This text is targeted at upper-level undergraduate students,graduate students, and medical students. It is also an excellentreference for researchers and physicians who need a

clinicallyrelevant reference for the molecular genetics of inherited humandiseases.

The genome's been mapped. But what does it mean? Arguably the most significant scientific discovery of the new century, the mapping of the twenty-three pairs of chromosomes that make up the human genome raises almost as many questions as it answers. Questions that will profoundly impact the way we think about disease, about longevity, and about free will. Questions that will affect the rest of your life. Genome offers extraordinary insight into the ramifications of this

incredible breakthrough. By picking one newly discovered gene from each pair of chromosomes and telling its story, Matt Ridley recounts the history of our species and its ancestors from the dawn of life to the brink of future medicine. From Huntington's disease to cancer, from the applications of gene therapy to the horrors of eugenics, Matt Ridley probes the scientific, philosophical, and moral issues arising as a result of the mapping of the genome. It will help you understand what this scientific milestone means for you, for your children, and for humankind.

In the 1960's and 1970's, personality and mental illness were conceptualized in an intertwined psychodynamic

model. Biological psychiatry for many un-weaved that model and took mental illness for psychiatry and left personality to psychology. This book brings personality back into biological psychiatry, not merely in the form of personality disorder but as part of a new intertwined molecular genetic model of personality and mental disorder. This is the beginning of a new conceptual paradigm!! This breakthrough volume marks the beginning of a new era, an era made possible by the electrifying pace of discovery and innovation in the field of molecular genetics. In fact, several types of genome maps have already been completed, and today's experts confidently predict that we will have a smooth version of the sequencing of the human genome --

which contains some 3 billion base pairs Such astounding progress helped fuel the development of this remarkable volume, the first ever to discuss the brand-new -- and often controversial -- field of molecular genetics and the human personality. Questioning, critical, and strong on methodological principles, this volume reflects the point of view of its 35 distinguished contributors -- all pioneers in this burgeoning field and themselves world-class theoreticians, empiricists, clinicians, developmentalists, and statisticians. For students of psychopathology and others bold enough to hold in abeyance their understandable misgivings about the conjunction of "molecular genetics" and "human personality," this work

offers an authoritative and up-to-date introduction to the molecular genetics of human personality. The book, with its wealth of facts, conjectures, hopes, and misgivings, begins with a preface by world-renowned researcher and author Irving Gottesman. The authors masterfully guide us through Chapter 1, principles and methods; Chapter 4, animal models for personality; and Chapter 11, human intelligence as a model for personality, laying the groundwork for our appreciation of the remaining empirical findings of human personality qua personality. Many chapters (6, 7, 9, 11, and 13) emphasize the neurodevelopmental and ontogenetic aspects of personality, with a major emphasis on the receptors and transporters for the

neurotransmitters dopamine and serotonin. Though these neurotransmitters are a rational starting point now, the future undoubtedly will bring many other candidate genes that today cannot even be imagined, given our ignorance of the genes involved in the prenatal development of the central nervous system. Chapter 3 provides an integrative overview of the broad autism phenotype, and as such will be of special interest to child psychiatrists. Chapters 5, 8, and 10 offer enlightening information on drug and alcohol abuse. Chapter 14 discusses variations in sexuality. Adding balance and mature perspectives on how all the chapters complement and sometimes challenge one another are Chapter 2, written by a major figure in the

renaissance of the relevance to psychopathology of both genetics and personality; Chapters 15-17, informed critical appraisals citing concerns and cautions about premature applications of this information in the policy arena; and Chapter 18, a judicious contemplation by the editors themselves of this promising -- and, to some, alarming -- field. Clear and meticulously researched, this eminently satisfying work is written to introduce the subject to postgraduate students just beginning to develop their research skills, to interested psychiatric practitioners, and to informed laypersons with some scientific background.

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

Significant advances in our knowledge of genetics were made during the twentieth century but in the most recent decades, genetic research has dramatically increased its impact throughout society. Genetic issues are now playing a large role in health and public policy, and new knowledge in this field will continue to have significant implications for individuals and society. Written for the non-majors human genetics course,

Human Genetics, 3E will increase the genetics knowledge of students who are learning about human genetics for the first time. This thorough revision of the best-selling Human Genome,2E includes entirely new chapters on forensics, stem cell biology, bioinformatics, and societal/ethical issues associated with the field. New special features boxes make connections between human genetics and human health and disease. Carefully crafted pedagogy includes chapter-opening case studies that set the stage for each chapter; concept statements interspersed throughout the chapter that keep first-time students focused on key concepts; and end-of-chapter questions and critical thinking activities. This new edition will

contribute to creating a genetically literate student population that understands basic biological research, understands elements of the personal and health implications of genetics, and participates effectively in public policy issues involving genetic information . Includes topical material on forensics, disease studies, and the human genome project to engage non-specialist students Full, 4-color illustration program enhances and reinforces key concepts and themes Uniform organization of chapters includes interest boxes that focus on human health and disease, chapter-opening case studies, and concept statements to engage non-specialist readers

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

It's in Your DNA: From Discovery to Structure, Function and Role in Evolution, Cancer and Aging describes, in a clear, approachable manner, the

progression of the experiments that eventually led to our current understanding of DNA. This fascinating work tells the whole story from the discovery of DNA and its structure, how it replicates, codes for proteins, and our current ability to analyze and manipulate it in genetic engineering to begin to understand the central role of DNA in evolution, cancer, and aging. While telling the scientific story of DNA, this captivating treatise is further enhanced by brief sketches of the colorful lives and personalities of the key scientists and pioneers of DNA research. Major discoveries by Meischer, Darwin, and Mendel and their impacts are discussed, including the merging of the disciplines of genetics, evolutionary biology, and nucleic acid

biochemistry, giving rise to molecular genetics. After tracing development of the gene concept, critical experiments are described and a new biological paradigm, the hologenome concept of evolution, is introduced and described. The final two chapters of the work focus on DNA as it relates to cancer and gerontology. This book provides readers with much-needed knowledge to help advance their understanding of the subject and stimulate further research. It will appeal to researchers, students, and others with diverse backgrounds within or beyond the life sciences, including those in biochemistry, genetics/molecular genetics, evolutionary biology, epidemiology, oncology, gerontology, cell biology, microbiology, and anyone

interested in these mechanisms in life. Highlights the importance of DNA research to science and medicine Explains in a simple but scientifically correct manner the key experiments and concepts that led to the current knowledge of what DNA is, how it works, and the increasing impact it has on our lives Emphasizes the observations and reasoning behind each novel idea and the critical experiments that were performed to test them

Genomic and Precision Medicine: Primary Care, Third Edition is an invaluable resource on the state-of-the-art tools, technologies and policy issues that are required to fully realize personalized health care in the area of

primary care. One of the major areas where genomic and personalized medicine is most active is the realm of the primary care practitioner. Risk, family history, personal genomics and pharmacogenomics are becoming increasingly important to the PCP and their patients, and this book discusses the implications as they relate to primary care practitioners. Presents a comprehensive volume for primary care providers Provides succinct commentary and key learning points that will assist providers with their local needs for the implementation of genomic and personalized medicine Includes a current overview on major opportunities for genomic and personalized medicine in practice Highlights case studies that illustrate the practical use

of genomics in the management in patients