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Exploring the Biological Contributions to Human Health - Institute of Medicine
2001-07-02

It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to

chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and

journalists-while being very accessible to interested lay readers.

Gene Structure and Expression - John D. Hawkins 1996-09-12

This third edition of a successful textbook is a concise description of the structure and function of genes.

Introduction to Genetics: A Molecular Approach - T A Brown 2012-03-22

Genetics today is inexorably focused on DNA. The theme of *Introduction to Genetics: A Molecular Approach* is therefore the progression from molecules (DNA and genes) to processes (gene expression and DNA replication) to systems (cells, organisms and populations). This progression reflects both the basic logic of life and the way in which modern biology

New Directions for Biosciences Research in Agriculture - National Research Council 1985-01-01

Authored by an integrated committee of

plant and animal scientists, this review of newer molecular genetic techniques and traditional research methods is presented as a compilation of high-reward opportunities for agricultural research. Directed to the Agricultural Research Service and the agricultural research community at large, the volume discusses biosciences research in genetic engineering, animal science, plant science, and plant diseases and insect pests. An optimal climate for productive research is discussed.

Genetics and Genomics in Medicine - Tom Strachan 2014-06-02

Genetics and Genomics in Medicine is a new textbook written for undergraduate students, graduate students, and medical researchers that explains the science behind the uses of genetics and genomics in medicine today. Rather than focusing narrowly on rare inherited and chromosomal disorders, it is a comprehensive and

integrated account of how geneti
Molecular Biology of the Cell - Bruce Alberts
2004

Human Genetics, 4/e - Suresh D. Gangane
2013

Understanding Gene Testing - 1997

Human Molecular Genetics 3 - T. Strachan
2004

This work provides guidance on the principles underlying modern human molecular genetics. This new edition has been updated to take account of the changes in our understanding of this field since the late 1990s.

Understanding Genetics - Genetic Alliance
2009

The purpose of this manual is to provide an educational genetics resource for individuals, families, and health

professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling.

Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics.

Human Molecular Genetics, Textbook

and Problems Set - Tom Strachan
2001-01-04

Thompson and Thompson Genetics in Medicine - Robert L. Nussbaum 2007

Through six editions, Thompson & Thompson's Genetics in Medicine has been a well-established favorite textbook on this fascinating and rapidly evolving field, integrating the classic principles of human genetics with modern molecular genetics to help you understand a wide range of genetic disorders. The 7th edition incorporates the latest advances in molecular diagnostics, the Human Genome Project, and much more. More than 240 dynamic illustrations and high-quality photos help you grasp complex concepts more easily. In addition to the book, you will also receive STUDENT CONSULT, enabling you to access the complete contents of the book online, anywhere you go! Acquire the state-of-the-

art knowledge you need on the latest advances in molecular diagnostics, the Human Genome Project, pharmacogenetics, and bio-informatics. Better understand the relationship between basic genetics and clinical medicine with a variety of clinical case studies. Recognize a wide range of genetic disorders with visual guidance from more than 240 dynamic illustrations and high-quality photos. Access the complete contents of the book online, fully searchable with STUDENT CONSULT. You'll find "Integration Links" to bonus content in other STUDENT CONSULT titles · content clipping for handheld devices · an interactive community center with a wealth of additional resources · quarterly updates on the material · USMLE questions · and much more!

Human Genetics and Genomics - Bruce R. Korf 2012-11-19

This fourth edition of the best-selling

textbook, *Human Genetics and Genomics*, clearly explains the key principles needed by medical and health sciences students, from the basis of molecular genetics, to clinical applications used in the treatment of both rare and common conditions. A newly expanded Part 1, *Basic Principles of Human Genetics*, focuses on introducing the reader to key concepts such as Mendelian principles, DNA replication and gene expression. Part 2, *Genetics and Genomics in Medical Practice*, uses case scenarios to help you engage with current genetic practice. Now featuring full-color diagrams, *Human Genetics and Genomics* has been rigorously updated to reflect today's genetics teaching, and includes updated discussion of genetic risk assessment, "single gene" disorders and therapeutics. Key learning features include: Clinical snapshots to help relate science to practice 'Hot topics' boxes that focus on the latest

developments in testing, assessment and treatment 'Ethical issues' boxes to prompt further thought and discussion on the implications of genetic developments 'Sources of information' boxes to assist with the practicalities of clinical research and information provision Self-assessment review questions in each chapter Accompanied by the Wiley E-Text digital edition (included in the price of the book), *Human Genetics and Genomics* is also fully supported by a suite of online resources at www.korfgenetics.com, including: Factsheets on 100 genetic disorders, ideal for study and exam preparation Interactive Multiple Choice Questions (MCQs) with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides, ideal for teaching purposes The perfect companion to the genetics component of both problem-based learning and integrated medical

courses, Human Genetics and Genomics presents the ideal balance between the bio-molecular basis of genetics and clinical cases, and provides an invaluable overview for anyone wishing to engage with this fast-moving discipline.

Molecular Biology Techniques - Heather Miller 2011-10-18

This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology, or gene cloning and expression. The techniques used in basic research and biotechnology laboratories are covered in detail. Students gain hands-on experience from start to finish in subcloning a gene into an expression vector, through purification of the recombinant protein. The third edition has been completely re-written, with new laboratory exercises and all new illustrations and text, designed for a typical 15-week

semester, rather than a 4-week intensive course. The "project approach to experiments was maintained: students still follow a cloning project through to completion, culminating in the purification of recombinant protein. It takes advantage of the enhanced green fluorescent protein - students can actually visualize positive clones following IPTG induction. Cover basic concepts and techniques used in molecular biology research labs Student-tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab "Project" approach to experiments gives students an overview of the entire process Prep-list appendix contains necessary recipes and catalog numbers, providing staff with detailed instructions

Molecular Endocrinology - Franklyn F. Bolander 2013-10-22

Aimed at graduate level courses, this textbook provides students with a solid background in the basics of molecular endocrinology. *Molecular Endocrinology, Second Edition*, summarizes the area and provides an in-depth discussion of the molecular aspects of hormone action, including hormone-receptor interactions, second messenger generation, gene induction, and post-transcriptional control. Thoroughly revised and updated, the Second Edition includes new information on growth factors, hematopoietic-immune factors, nonclassical hormones, receptors, transduction, transcriptional regulation, as well as other relevant topics. Incorporating an abundance of new information, this text retains the self-contained, focused, and easily readable style of the First Edition. Professionals in related fields will also find this book to be a helpful summary and general reference source.

Human Genetics and Genomics, Includes Wiley E-Text - Bruce R. Korf 2013-02-11
This fourth edition of the best-selling textbook, *Human Genetics and Genomics*, clearly explains the key principles needed by medical and health sciences students, from the basis of molecular genetics, to clinical applications used in the treatment of both rare and common conditions. A newly expanded Part 1, *Basic Principles of Human Genetics*, focuses on introducing the reader to key concepts such as Mendelian principles, DNA replication and gene expression. Part 2, *Genetics and Genomics in Medical Practice*, uses case scenarios to help you engage with current genetic practice. Now featuring full-color diagrams, *Human Genetics and Genomics* has been rigorously updated to reflect today's genetics teaching, and includes updated discussion of genetic risk assessment, "single gene" disorders and therapeutics.

Key learning features include: Clinical snapshots to help relate science to practice 'Hot topics' boxes that focus on the latest developments in testing, assessment and treatment 'Ethical issues' boxes to prompt further thought and discussion on the implications of genetic developments 'Sources of information' boxes to assist with the practicalities of clinical research and information provision Self-assessment review questions in each chapter Accompanied by the Wiley E-Text digital edition (included in the price of the book), Human Genetics and Genomics is also fully supported by a suite of online resources at www.korfgenetics.com, including: Factsheets on 100 genetic disorders, ideal for study and exam preparation Interactive Multiple Choice Questions (MCQs) with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides, ideal for

teaching purposes The perfect companion to the genetics component of both problem-based learning and integrated medical courses, Human Genetics and Genomics presents the ideal balance between the bio-molecular basis of genetics and clinical cases, and provides an invaluable overview for anyone wishing to engage with this fast-moving discipline.

Molecular and Cell Biology For Dummies -
Rene Fester Kratz 2009-06-02

Your hands-on study guide to the inner world of the cell Need to get a handle on molecular and cell biology? This easy-to-understand guide explains the structure and function of the cell and how recombinant DNA technology is changing the face of science and medicine. You discover how fundamental principles and concepts relate to everyday life. Plus, you get plenty of study tips to improve your grades and score higher on exams! Explore the world of the

cell — take a tour inside the structure and function of cells and see how viruses attack and destroy them Understand the stuff of life (molecules) — get up to speed on the structure of atoms, types of bonds, carbohydrates, proteins, DNA, RNA, and lipids Watch as cells function and reproduce — see how cells communicate, obtain matter and energy, and copy themselves for growth, repair, and reproduction Make sense of genetics — learn how parental cells organize their DNA during sexual reproduction and how scientists can predict inheritance patterns Decode a cell's underlying programming — examine how DNA is read by cells, how it determines the traits of organisms, and how it's regulated by the cell Harness the power of DNA — discover how scientists use molecular biology to explore genomes and solve current world problems Open the book and find: Easy-to-follow explanations of key

topics The life of a cell — what it needs to survive and reproduce Why molecules are so vital to cells Rules that govern cell behavior Laws of thermodynamics and cellular work The principles of Mendelian genetics Useful Web sites Important events in the development of DNA technology Ten great ways to improve your biology grade **Human Gene Mutation** - David Neil Cooper 1993 Within the last decade, much progress has been made in the analysis and diagnosis of human inherited disease, and in the characterization of the underlying genes and their associated pathological lesions. *Human Biochemistry* - Gerald Litwack 2021-11-28 Human Biochemistry, Second Edition provides a comprehensive, pragmatic introduction to biochemistry as it relates to human development and disease. Here, Gerald Litwack, award-winning researcher

and longtime teacher, discusses the biochemical aspects of organ systems and tissue, cells, proteins, enzymes, insulins and sugars, lipids, nucleic acids, amino acids, polypeptides, steroids, and vitamins and nutrition, among other topics. Fully updated to address recent advances, the new edition features fresh discussions on hypothalamic releasing hormones, DNA editing with CRISPR, new functions of cellular prions, plant-based diet and nutrition, and much more. Grounded in problem-driven learning, this new edition features clinical case studies, applications, chapter summaries, and review-based questions that translate basic biochemistry into clinical practice, thus empowering active clinicians, students and researchers. Presents an update on a past edition winner of the 2018 Most Promising New Textbook (College) Award (Texty) from the Textbook and Academic Authors Association and the PROSE Award of

the Association of American Publishers Provides a fully updated resource on current research in human and medical biochemistry Includes clinical case studies, applications, chapter summaries and review-based questions Adopts a practice-based approach, reflecting the needs of both researchers and clinically oriented readers

Molecular Biology of B Cells - Michael Reth
2004-02-19

Molecular Biology of B Cells is a comprehensive reference to how B cells are generated, selected, activated and engaged in antibody production. All these developmental and stimulatory processes are described in molecular and genetic terms to give a clear understanding of complex phenotypes. The molecular basis of many diseases due to B cell abnormality is also discussed. This definitive reference is directed at research level immunologists,

molecular biologists and geneticists.

Essential Concepts in Molecular Pathology - William B. Coleman
2019-11-23

Essential Concepts in Molecular Pathology, Second Edition, offers an introduction to molecular genetics and the "molecular" aspects of human disease. The book illustrates how pathologists harness their understanding of these entities to develop new diagnostics and treatments for various human diseases. This new edition offers pathology, genetics residents, and molecular pathology fellows an advanced understanding of the molecular mechanisms of disease that goes beyond what they learned in medical and graduate school. By bridging molecular concepts of pathogenesis to the clinical expression of disease in cell, tissue and organ, this fully updated, introductory reference provides the background necessary for an

understanding of today's advances in pathology and medicine. Explains the practice of "molecular medicine" and the translational aspects of molecular pathology, including molecular diagnostics, molecular assessment and personalized medicine. Orients non-pathologists on what pathologists look for and how they interpret their observational findings based on histopathology. Provides the reader with what is missing from most targeted introductions to pathology—the cell biology behind pathophysiology.

Goodman's Basic Medical Endocrinology - Elizabeth H. Holt 2021-02-21

Goodman's Basic Medical Endocrinology, Fifth Edition, has been student tested and approved for decades. This essential textbook provides up-to-date coverage of rapidly unfolding advances in the understanding of hormones involved in regulating most aspects of bodily functions.

It is richly illustrated in full color with both descriptive schematic diagrams and laboratory findings obtained in clinical studies. This is a classic reference for moving forward into advanced study. Clinical case studies in every chapter E-book version available with every copy for obtaining images and tables for lectures or notes Clinicians added as co-authors to enhance usefulness by physicians and medical students and residents Detailed molecular biology of hormones and hormone action for graduate and advanced undergraduate students Expanded and updated color images emphasizing hormone action at the molecular level In-depth molecular biology and clinical sections boxed for ease of access

Principles of Proteomics - Richard Twyman
2013-09-16

Principles of Proteomics, Second Edition,
provides a concise and user-friendly

introduction to the diverse technologies used for the large-scale analysis of proteins, as well as their applications, and their impact in areas such as drug discovery, agriculture, and the fight against disease. Proteomics is a fast-advancing field in which research

A Genetic Switch - Mark Ptashne 2004

The first edition of Mark Ptashne's 1986 book describing the principles of gene regulation in phage lambda became a classic in both content and form, setting a standard of clarity and precise prose that has rarely been bettered. This newly updated third edition focuses once again solely on phage, incorporating the most recent insights into gene expression in prokaryotes while retaining all the special qualities of the original edition

Genetic Disorders and the Fetus -

Aubrey Milunsky 2012-12-06

Technological advances continue to expand

the number of genetic disorders that can be diagnosed in utero. Utilization of this new technology has demanded special expertise available in relatively few academic centers. As these new applications have become more widespread so have the realities of the medicolegal implications. Notwithstanding the laboratory challenges, most legal action, at least in the United States, has arisen from the physician's failure to inform a patient about the risks of a genetic disorder or the opportunities presented by prenatal diagnosis. Hence an extensive thorough reexamination of the subject seems appropriate and timely. The steady escalation in the number of prenatal genetic studies now being done in the western world makes it imperative for the physician to have a thorough comprehension of the subject in its entirety. I am, therefore, fortunate in having colleagues who as acknowledged experts have shared their

knowledge and experience in order to make this volume a major critical repository of facts and guidance about prenatal genetic diagnosis. The subject matter ranges from a consideration of required genetic counseling through the intricacies of establishing prenatal diagnoses. Special attention is focused on new advances using ultrasound, a-fetoprotein, fetoscopy, and first trimester diagnosis. Both ethical and legal implications are discussed in detail, as is the development of public policy.

Molecular Pathology - William B. Coleman
2017-11-09

As the molecular basis of human disease becomes better characterized, and the implications for understanding the molecular basis of disease becomes realized through improved diagnostics and treatment, Molecular Pathology, Second Edition stands out as the most comprehensive textbook where molecular

mechanisms represent the focus. It is uniquely concerned with the molecular basis of major human diseases and disease processes, presented in the context of traditional pathology, with implications for translational molecular medicine. The Second Edition of Molecular Pathology has been thoroughly updated to reflect seven years of exponential changes in the fields of genetics, molecular, and cell biology which molecular pathology translates in the practice of molecular medicine. The textbook is intended to serve as a multi-use textbook that would be appropriate as a classroom teaching tool for biomedical graduate students, medical students, allied health students, and others (such as advanced undergraduates). Further, this textbook will be valuable for pathology residents and other postdoctoral fellows that desire to advance their understanding of molecular mechanisms of disease beyond

what they learned in medical/graduate school. In addition, this textbook is useful as a reference book for practicing basic scientists and physician scientists that perform disease-related basic science and translational research, who require a ready information resource on the molecular basis of various human diseases and disease states. Explores the principles and practice of molecular pathology: molecular pathogenesis, molecular mechanisms of disease, and how the molecular pathogenesis of disease parallels the evolution of the disease Explains the practice of “molecular medicine and the translational aspects of molecular pathology Teaches from the perspective of “integrative systems biology Enhanced digital version included with purchase

Essential Cell Biology - Bruce Alberts
2015-01-01

Essential Cell Biology provides a readily

accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally

supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit <http://garlandscience.rocketmix.com/>. *Cell Biology E-Book* - Thomas D. Pollard 2016-11-01

The much-anticipated 3rd edition of Cell

Biology delivers comprehensive, clearly written, and richly illustrated content to today's students, all in a user-friendly format. Relevant to both research and clinical practice, this rich resource covers key principles of cellular function and uses them to explain how molecular defects lead to cellular dysfunction and cause human disease. Concise text and visually amazing graphics simplify complex information and help readers make the most of their study time. Clearly written format incorporates rich illustrations, diagrams, and charts. Uses real examples to illustrate key cell biology concepts. Includes beneficial cell physiology coverage. Clinically oriented text relates cell biology to pathophysiology and medicine. Takes a mechanistic approach to molecular processes. Major new didactic chapter flow leads with the latest on genome organization, gene expression and RNA processing. Boasts exciting new content

including the evolutionary origin of eukaryotes, super resolution fluorescence microscopy, cryo-electron microscopy, gene editing by CRISPR/Cas9, contributions of high throughput DNA sequencing to understand genome organization and gene expression, microRNAs, lncRNAs, membrane-shaping proteins, organelle-organelle contact sites, microbiota, autophagy, ERAD, motor protein mechanisms, stem cells, and cell cycle regulation. Features specially expanded coverage of genome sequencing and regulation, endocytosis, cancer genomics, the cytoskeleton, DNA damage response, necroptosis, and RNA processing. Includes hundreds of new and updated diagrams and micrographs, plus fifty new protein and RNA structures to explain molecular mechanisms in unprecedented detail.

Molecular Biology of the Male Reproductive System - David de Kretser

2012-12-02

Written by experts in their respective fields, this book reviews the expanding knowledge concerning the mechanisms regulating male reproduction at the molecular and cellular levels. It covers the development of the testes and regulatory controls for spermatogenesis and steroidogenesis, and it considers aspects of Sertoli cell function. Areas of emphasis include communication between the various cell types involved in reproduction by hormone and growth factors and the mechanisms by which these factors regulate gene expression. A number of mammalian systems, including humans, are covered. The carefully selected authors provide a clear synopsis of the concepts in each area as well as the latest references, enabling the reader to investigate the topic further. This book is of interest to those seeking an understanding of the regulatory mechanisms in male reproduction and is

written for the graduate and postgraduate levels. Key Features * Provides up-to-date reviews of the molecular and cellular biology of male reproduction * Includes chapters on the developmental biology of the testes * Links conventional hormonal control of testicular function with the evolving role of growth factors and proto-oncogenes

Molecular Biology - David P. Clark

2012-03-20

Molecular Biology, Second Edition, examines the basic concepts of molecular biology while incorporating primary literature from today's leading researchers. This updated edition includes Focuses on Relevant Research sections that integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. The new Academic Cell Study Guide features all the articles from the text with concurrent case studies to help

students build foundations in the content while allowing them to make the appropriate connections to the text. Animations provided deal with topics such as protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE. The text also includes updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA. An updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. This text is designed for undergraduate students taking a course in Molecular Biology and upper-level students studying Cell Biology, Microbiology, Genetics, Biology, Pharmacology, Biotechnology, Biochemistry, and Agriculture. NEW: "Focus On Relevant Research" sections integrate primary literature from Cell Press and focus on

helping the student learn how to read and understand research to prepare them for the scientific world. NEW: Academic Cell Study Guide features all articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. NEW: Animations provided include topics in protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE Updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA Updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. Fully revised art program
Mapping and Sequencing the Human Genome - National Research Council
1988-01-01

There is growing enthusiasm in the scientific community about the prospect of mapping and sequencing the human genome, a monumental project that will have far-reaching consequences for medicine, biology, technology, and other fields. But how will such an effort be organized and funded? How will we develop the new technologies that are needed? What new legal, social, and ethical questions will be raised? Mapping and Sequencing the Human Genome is a blueprint for this proposed project. The authors offer a highly readable explanation of the technical aspects of genetic mapping and sequencing, and they recommend specific interim and long-range research goals, organizational strategies, and funding levels. They also outline some of the legal and social questions that might arise and urge their early consideration by policymakers.

Human Blood Groups - Geoff Daniels

2013-01-16

This new edition of an essential text for all those working within transfusion and blood banking is now even more biologically and clinically relevant, incorporating the latest information on the genes for various blood groups and including greater content on the functional significance of blood groups. The book covers techniques used in blood grouping, troubleshooting and quality assurance and integrates serology with molecular biology, marrying the basic understanding at the genetic level with a cellular understanding of the red blood cell membrane. Now in full colour throughout.

Long-Range Control of Gene Expression

- Veronica van Heyningen 2011-09-02

Long-Range Control of Gene Expression

covers the current progress in understanding the mechanisms for genomic control of gene expression, which has grown considerably in the last few years as insight

into genome organization and chromatin regulation has advanced. Discusses the evolution of cis-regulatory sequences in drosophila Includes information on genomic imprinting and imprinting defects in humans Includes a chapter on epigenetic gene regulation in cancer

The Human Genome - T. Strachan 1992

A concise description of the structure of the human genome and the ways in which recent knowledge is influencing medical research and practice. If you have any interest in the Human Genome Project, this book is a must!

Human Molecular Genetics - Peter Sudbery 2009

This is a concise overview of a complex and fast moving field. The text explains amongst many things the special problems encountered in human genome analysis. Boxed case studies are incorporated to help student comprehension of this topic.

Environmental Epigenetics - L. Joseph Su 2015-05-18

This book examines the toxicological and health implications of environmental epigenetics and provides knowledge through an interdisciplinary approach. Included in this volume are chapters outlining various environmental risk factors such as phthalates and dietary components, life states such as pregnancy and ageing, hormonal and metabolic considerations and specific disease risks such as cancer cardiovascular diseases and other non-communicable diseases. Environmental Epigenetics imparts integrative knowledge of the science of epigenetics and the issues raised in environmental epidemiology. This book is intended to serve both as a reference compendium on environmental epigenetics for scientists in academia, industry and laboratories and as a textbook for graduate level environmental health

courses. Environmental Epigenetics imparts integrative knowledge of the science of epigenetics and the issues raised in environmental epidemiology. This book is intended to serve both as a reference compendium on environmental epigenetics for scientists in academia, industry and laboratories and as a textbook for graduate level environmental health courses.

Human Reproductive and Prenatal

Genetics - Peter C. K. Leung 2018-08-28

Human Reproductive and Prenatal Genetics presents the latest material from a detailed molecular, cellular and translational perspective. Considering its timeliness and potential international impact, this all-inclusive and authoritative work is ideal for researchers, students, and clinicians worldwide. Currently, there are no comprehensive books covering the field of human reproductive and prenatal genetics. As such, this book aims to be among the

largest and most useful references available. Features chapter contributions from leading international scientists and clinicians Provides in-depth coverage of key topics in human reproductive and prenatal genetics, including genetic controls, fertilization and implantation, in vitro culture of the human embryo for the study of post-implantation development, and more Identifies how researchers and clinicians can implement the latest genetic, epigenetic, and -omics based approaches

Molecular Genetics of Recombination -

Andrés Aguilera 2007-04-24

This work offers a fascinating insight into a crucial genetic process. Recombination is, quite simply, one of the most important topics in contemporary biology. This book is a totally comprehensive treatment of the subject, summarizing all existing views on the topic and at the same time putting them into context. It provides in-depth and up-to-

date analysis of the chapter topics, and has been written by international experts in the field.

The Human Genome - Julia E. Richards
2010-12-12

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

Stem Cells - Christine Mummery 2014-05-23

The second edition of *Stem Cells: Scientific Facts and Fiction* provides the non-stem cell expert with an understandable review of the history, current state of affairs, and facts and fiction of the promises of stem cells. Building on success of its award-winning preceding edition, the second edition features new chapters on embryonic and iPS cells and stem cells in veterinary science and medicine. It contains major revisions on cancer stem cells to include new culture models, additional interviews with leaders in progenitor cells, engineered eye tissue, and xeno organs from stem cells, as well as new information on "organs on chips" and adult progenitor cells. In the past decades our understanding of stem cell biology has

increased tremendously. Many types of stem cells have been discovered in tissues that everyone presumed were unable to regenerate in adults, the heart and the brain in particular. There is vast interest in stem cells from biologists and clinicians who see the potential for regenerative medicine and future treatments for chronic diseases like Parkinson's, diabetes, and spinal cord lesions, based on the use of stem cells; and from entrepreneurs in biotechnology who expect new commercial applications ranging from drug discovery to transplantation therapies. Explains in straightforward, non-specialist language the basic biology of stem cells and their applications in modern medicine and future therapy Includes extensive coverage of adult and embryonic stem cells both historically and in contemporary practice Richly illustrated to assist in understanding how research is done and the current hurdles to clinical

practice