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A Primer of Genome Science - Third Edition. Greg Gibson; Spencer V. Muse. Published by Sinauer Associates (2009) ISBN 10: 0878932364 ISBN 13: 9780878932368.

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Coffin JM, Hughes SH, Varmus HE, editors. Cold Spring Harbor (NY): Cold Spring Harbor Laboratory Press; 1997.

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Bioinformatic principles and experimental strategies are explained side-by-side with the experimental methods used in this field, to establish a framework that allows readers to explore topics and literature at their own pace.

Human beings have astonishing genetic vulnerabilities. More than half of us will die from complex diseases that trace directly to those vulnerabilities, and the modern world we've created places us at unprecedented risk from them. In It Takes a Genome, Greg Gibson posits a revolutionary new hypothesis: Our genome is out of equilibrium, both with itself and its environment. Simply put, our genes aren't coping well with modern culture. Our bodies were never designed to subsist on fat and sugary foods; our immune systems weren't designed for today's clean, bland environments; our minds weren't designed to process hard-edged, artificial electronic inputs from dawn 'til midnight. And that's why so many of us suffer from chronic diseases that barely touched our ancestors. Gibson begins by revealing the stunningly complex ways in which multiple genes cooperate and interact to shape our bodies and influence our behaviors. Then, drawing on the very latest science, he explains the genetic "mismatches" that increasingly lead to cancer, diabetes, inflammatory and infectious diseases, AIDS, depression, and senility. He concludes with a look at the probable genetic variations in human psychology, sharing the evidence that traits like introversion and agreeableness are grounded in equally complex genetic interactions. It Takes A Genome demolishes yesterday's stale debates over "nature vs. nurture," introducing a new view that is far more intriguing, and far closer to the truth. See how broken genes cause cancer Meet the body's "genetic repairmen"—and understand what happens when they fail The growing price of the modern lifestyle Why one-third of all Westerners have obesity, Type 2 diabetes, or other signs of "metabolic syndrome" The Alzheimer's generation Why some of us are predisposed to dementia What's really normal: the deepest lessons of the human genome The remarkable diversity of physical and emotional "normality"

Genome projects: organization and objectives. Genome sequencing and annotation. gene expression and the transcriptome. Proteomics and functional genomics. SNPs variation. Integrative genomics.

An invaluable student-tested study aid, this primer, first published in 2007, provides guided instruction for the analysis and interpretation of genetic principles and practice in problem solving. Each section is introduced with a summary of useful hints for problem solving and an overview of the topic with key terms. A series of problems, generally progressing from simple to more complex, then allows students to test their understanding of the material. Each question and answer is accompanied by detailed explanation. This third edition includes additional problems in basic areas that often challenge students, extended coverage in molecular biology and development, an expanded glossary of terms, and updated historical landmarks. Students at all levels, from beginning biologists and premedical students to graduates seeking a review of basic genetics, will find this book a valuable aid. It will complement the formal presentation in any genetics textbook or stand alone as a self-paced review manual.

Our genome is the blueprint to our existence: it encodes all the information we need to develop from a single cell into a hugely complicated functional organism. But it is more than a static information store: our genome is a dynamic, tightly-regulated collection of genes, which switch on and off in many combinations to give the variety of cells from which our bodies are formed. But how do we identify the genes that make up our genome? How we determine their function? And how do different genes form the regulatory networks that direct the process of life? Introduction to Genomics is a fascinating insight into what can be revealed from the study of genomes: how organisms differ or match; how different organisms evolved; how the genome is constructed and how it operates; and what our understanding of genomics means in terms of our future health and wellbeing. Covering the latest techniques that enable us to study the genome in ever-increasing detail, the book explores what the genome tells us about life at the level of the molecule, the cell, the organism, the ecosystem and the biosphere. Learning features throughout make this book the ideal teaching and learning tool: extensive end of chapter exercises and problems help the student to grasp fully the concepts being presented, while end of chapter WebLems (web-based problems) and Lab assignments give the student the opportunity to engage with the subject in a hands-on manner. The field of genomics is enabling us to analyze life in more detail than ever before: Introduction to Genomics is the perfect guide to this enthralling subject. Online Resource Centre: - Figures from the book available to download, to facilitate lecture preparation - Answers to odd-numbered end of chapter exercises, and hints for solving end of chapter problems, to support self-directed learning - Library of web links, for rapid access to a wider pool of additional resources

Molecular Diagnostics, Third Edition, focuses on the technologies and applications that professionals need to work in, develop, and manage a clinical diagnostic laboratory. Each chapter contains an expert introduction to each subject that is next to technical details and many applications for molecular genetic testing that can be found in comprehensive reference lists at the end of each chapter. Contents are divided into three parts, technologies, application of those technologies, and related issues. The first part is dedicated to the battery of the most widely used molecular pathology techniques. New chapters have been added, including the various new technologies involved in next-generation sequencing (mutation detection, gene expression, etc.), mass spectrometry, and protein-specific methodologies. All revised chapters have been completely updated, to include not only technology innovations, but also novel diagnostic applications. As with previous editions, each of the chapters in this section includes a brief description of the technique followed by examples from the area of expertise from the selected contributor. The second part of the book attempts to integrate previously analyzed technologies into the different aspects of molecular diagnostics, such as identification of genetically modified organisms, stem cells, pharmacogenomics, modern forensic science, molecular microbiology, and genetic diagnosis. Part three focuses on various everyday issues in a diagnostic laboratory, from genetic counseling and related ethical and psychological issues, to safety and quality management. Presents a comprehensive account of all new technologies and applications used in clinical diagnostic laboratories Explores a wide range of molecular-based tests that are available to assess DNA variation and changes in gene expression Offers clear translational presentations by the top molecular pathologists, clinical chemists, and molecular geneticists in the field

For years, scientists have been warning us that a pandemic was all but inevitable. Now it's here, and the rest of us have a lot to learn. Fortunately, science writer Carl Zimmer is here to guide us. In this compact volume, he tells the story of how the smallest living things known to science can bring an entire planet of people to a halt--and what we can learn from how we've defeated them in the past. Planet of Viruses covers such threats as Ebola, MERS, and chikungunya virus; tells about recent scientific discoveries, such as a hundred-million-year-old virus that infected the common ancestor of armadillos, elephants, and humans; and shares new findings that show why climate change may lead to even deadlier outbreaks. Zimmer's lucid explanations and fascinating stories demonstrate how deeply humans and viruses are intertwined. Viruses helped give rise to the first life-forms, are responsible for many of our most devastating diseases, and will continue to control our fate for centuries. Thoroughly readable, and, for all its honesty about the threats, as reassuring as it is frightening, A Planet of Viruses is a fascinating tour of a world we all need to better understand.

Since the completion of the Human Genome Project, food and nutrition sciences have undergone a fundamental molecular transformation. New discoveries in molecular biology, analytical chemistry, and biochemistry have led to the development of new tools that are likely to revolutionize the study of food. OMICS Technologies: Tools for Food Science expl

The healthcare field is rapidly evolving, compelled by technological strides, pressure to increase efficiency, and demand to contain costs. Pharmacy and the U.S. Health Care System, Third Edition is the classic text used to prepare pharmacists for independent practice in today's unpredictable environment since the first edition was published in 1991. This new edition is now streamlined and tailored for a one-semester course, completely updated with the most recent data, statistics, and emerging issues relevant to today's pharmacy professional, with new chapters devoted to the political realities of the industry and the future of pharmacy.

The author presents a basic introduction to the world of genetic engineering. Copyright © Libri GmbH. All rights reserved.

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