Gene

Genetic Alliance, New York-Mid-Atlantic Consortium for Genetic and Newborn Screening Services

The Gene Siddhartha Mukherjee, 2016-05-17 The #1 NEW YORK TIMES Bestseller The basis for the PBS Ken Burns Documentary The Gene: An Intimate History Now includes an excerpt from Siddhartha Mukherjee's new book Song of the Cell! From the Pulitzer Prize-winning author of The Emperor of All Maladies—a fascinating history of the gene and "a magisterial account of how human minds have laboriously, ingeniously picked apart what makes us tick" (Elle). "Sid Mukherjee has the uncanny ability to bring together science, history, and the future in a way that is understandable and riveting, guiding us through both time and the mystery of life itself." —Ken Burns "Dr. Siddhartha Mukherjee dazzled readers with his Pulitzer Prizewinning The Emperor of All Maladies in 2010. That achievement was evidently just a warm-up for his virtuoso performance in The Gene: An Intimate History, in which he braids science, history, and memoir into an epic with all the range and biblical thunder of Paradise Lost" (The New York Times). In this biography Mukherjee brings to life the quest to understand human heredity and its surprising influence on our lives, personalities, identities, fates, and choices. "Mukherjee expresses abstract intellectual ideas through emotional stories...[and] swaddles his medical rigor with rhapsodic tenderness, surprising vulnerability, and occasional flashes of pure poetry" (The Washington Post). Throughout, the story of Mukherjee's own family—with its tragic and bewildering history of mental illness—reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real world. In riveting and dramatic prose, he describes the centuries of research and experimentation—from Aristotle and Pythagoras to Mendel and Darwin, from Boveri and Morgan to Crick, Watson and Franklin, all the way through the revolutionary twenty-first century innovators who mapped the human genome. "A fascinating and often sobering history of how humans came to understand the roles of genes in making us who we are—and what our manipulation of those genes might mean for our future" (Milwaukee Journal-Sentinel), The Gene is the revelatory and magisterial history of a scientific idea coming to life, the most crucial science of our time, intimately explained by a master. "The Gene is a book we all should read" (USA TODAY).

<u>The Gene Siddhartha Mukherjee, 2016 Prologue: Families -- The missing science of heredity 1865-1935 -- In the sum of the parts, there are only the parts 1930-1970 -- The dreams of geneticists 1970-2001 -- The proper study of mankind is man 1970-2005 -- Through the looking glass 2001-2015 -- Post-genome 2015- ... -- Epilogue: Bheda, Abheda</u>

The Gene Book Sarah Adelaide Crawford,2018-06-28 The Gene Book: Explorations in the Code of Life is designed to introduce undergraduate college students to foundational concepts in genetics. The text provides in-depth coverage of the essential principles of genetics, from Mendel to molecular gene therapy, and reads like a story, guiding readers through each of these areas in an interesting, engaging, and enlightening way. Milestone scientific discoveries introduce conceptual topics in each of the 10 chapters. The significance of each genetics paradigm is reinforced by the meaningful research context in which it is placed, whether the focus is single gene inheritance of disorders such as PKU and cystic fibrosis, or more complex genetic phenomena. Chromosomes, cell division, and cytogenetic disorders, including Down Syndrome and leukemia, are presented in a riveting historical context. In addition, the principles of molecular genetics are a major focus of this book. Students learn about the double helix, DNA replication, gene expression, mutation, natural selection, genomics, and the tools of molecular DNA analysis. Approachable and effective, The Gene Book is a highly readable comprehensive text on genetics principles designed to highlight essential concepts that make up their very core. The text is well suited to undergraduate genetics courses and can also be used as a primer for more advanced undergraduate and graduate courses in medical or molecular genetics.

The Meanings of the Gene Celeste Michelle Condit,1999 The Meanings of the Gene is a compelling look at societal hopes and fears about genetics in the course of the twentieth century. The work of scientists and doctors in advancing genetic research and its applications has been

accompanied by plenty of discussion in the popular press—from Good Housekeeping and Forbes to Ms. and the Congressional Record—about such topics as eugenics, sterilization, DNA, genetic counseling, and sex selection. By demonstrating the role of rhetoric and ideology in public discussions about genetics, Condit raises the controversial question, Who shapes decisions about genetic research and its consequences for humans—scientists, or the public? Analyzing hundreds of stories from American magazines—and, later, television news—from the 1910s to the 1990s, Condit identifies three central and enduring public worries about genetics: that genes are deterministic arbiters of human fate; that genetics research can be used for discriminatory ends; and that advances in genetics encourage perfectionistic thinking about our children. Other key public concerns that Condit highlights are the complexity of genetic decision-making and potential for invasion of privacy; conflict over the human genetic code and experimentation with DNA; and family genetics and reproductive decisions. Her analysis reveals a persistent debate in the popular media between themes of genetic determinism (such as eugenics) and more egalitarian views that place genes within the complexity of biological and social life. The Meanings of the Gene offers an insightful view of our continuing efforts to grapple with our biological natures and to define what it means, and will mean in the future, to be human.

The Selfish Gene Richard Dawkins,1989 Science need not be dull and bogged down by jargon, as Richard Dawkins proves in this entertaining look at evolution. The themes he takes up are the concepts of altruistic and selfish behaviour; the genetical definition of selfish interest; the evolution of aggressive behaviour; kinshiptheory; sex ratio theory; reciprocal altruism; deceit; and the natural selection of sex differences. 'Should be read, can be read by almost anyone. It describes with great skill a new face of the theory of evolution.' W.D. Hamilton, Science

The Sports Gene David Epstein,2014-04-29 The New York Times bestseller – with a new afterword about early specialization in youth sports – from the author of Range: Why Generalists Triumph in a Specialized World. The debate is as old as physical competition. Are stars like Usain Bolt, Michael Phelps, and Serena Williams genetic freaks put on Earth to dominate their respective sports? Or are they simply normal people who overcame their biological limits through sheer force of will and obsessive training? In this controversial and engaging exploration of athletic success and the so-called 10,000-hour rule, David Epstein tackles the great nature vs. nurture debate and traces how far science has come in solving it. Through on-the-ground reporting from below the equator and above the Arctic Circle, revealing conversations with leading scientists and Olympic champions, and interviews with athletes who have rare genetic mutations or physical traits, Epstein forces us to rethink the very nature of athleticism.

Gene Future Thomas F. Lee,2013-11-09 As Lee so wisely and eloquently cautions, there may be perils along this pathway as well as miraculous discoveries. Do dangers lurk in this new technological approach to nature? May we unwittingly be doing irreparable harm to individuals, not to mention the biosphere? This perceptive author even-handedly assesses the controversies surrounding the perils that may await us as molecular science moves out of the laboratory and into our homes and environment. This fascinating and comprehensive volume shows that the time has come to confront our gene future, because our gene future is now.--lacket

Beyond Our Genes Raffaele Teperino,2020-01-24 The genotype/phenotype dichotomy is being slowly replaced by a more complex relationship whereby the majority of phenotypes arise from interactions between one's genotype and the environment in which one lives. Interestingly, it seems that not only our lives, but also our ancestors' lives, determine how we look. This newly recognized form of inheritance is known as (epi)genetic, as it involves an additional layer of information on top of the one encoded by the genes. Its discovery has constituted one of the biggest paradigm shifts in biology in recent years. Understanding epigenetic factors may help explain the pathogenesis of several complex human diseases (such as diabetes, obesity and cancer) and provide alternative paths for disease prevention, management and therapy. This book introduces the reader to the importance of the environment for our own health and the health of our descendants, sheds light on the current knowledge on epigenetic inheritance and opens a

window to future developments in the field.

Molecular Biology of The Cell Bruce Alberts, 2002

When a Gene Makes You Smell Like a Fish:...and Other Amazing Tales about the Genes in Your Body Lisa Seachrist Chiu,2007-06-08 From the gene that causes people to age prematurely to the bitter gene that may spawn broccoli haters, this book explores a few of the more exotic locales on the human genome, highlighting some of the tragic and bizarre ways our bodies go wrong when genes fall prey to mutation and the curious ways in which genes have evolved for our survival.Lisa Seachrist Chiu has a smorgasbord of stories to tell about rare and not so rare genetic quirks. We read about the Dracula Gene, a mutation in zebra fish that causes blood cells to explode on contact with light, and suites of genes that also influence behavior and physical characteristics; the Tangier Island Gene, first discovered after physicians discovered a boy with orange tonsils (scientists now realize that the child's odd condition comes from an inability to process cholesterol); and Wilson's Disease, a gene defect that fails to clear copper from the body, which can trigger schizophrenia and other neurological symptoms, and can be fatal if left untreated. Friendlier mutations include the Myostatin gene, which allows muscles to become much larger than usual and enhances strength and the much-envied Cheeseburger Gene, which allows a lucky few to eat virtually anything they want and remain razor thin. While fascinating us with stories of genetic peculiarities, Chiu also manages to effortlessly explain much of the cutting-edge research in modern genetics, resulting in a book that is both informative and entertaining. It is a must read for everyone who loves popular science or is curious about the human body.

Understanding Genetics Genetic Alliance, New York-Mid-Atlantic Consortium for Genetic and Newborn Screening Services, 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.

Reconceiving the Gene Frederic Lawrence Holmes,2008-10-01 This book relates how, between 1954 and 1961, the biologist Seymour Benzer mapped the fine structure of the rll region of the genome of the bacterial virus known as phage T4. Benzer's accomplishments are widely recognized as a tipping point in mid-twentieth-century molecular biology when the nature of the gene was recast in molecular terms. More often than any other individual, he is considered to have led geneticists from the classical gene into the molecular age. Drawing on Benzer's remarkably complete record of his experiments, his correspondence, and published sources, this book reconstructs how the former physicist initiated his work in phage biology and achieved his landmark investigation. The account of Benzer's creativity as a researcher is a fascinating story that also reveals intriguing aspects common to the scientific enterprise.

Genetics Daniel L. Hartl, Maryellen Ruvolo, 2011-08-05 The Eighth Edition of Genetics: Analysis of Genes and Genomes provides a clear, balanced, and comprehensive introduction to genetics and genomics at the college level. Expanding upon the key elements that have made this text a success, Hartl has included updates throughout, as well as a new chapter dedicated to genetic evolution. He continues to treat transmission genetics, molecular genetics, and evolutionary genetics as fully integrated subjects and provide students with an unprecedented understanding of the basic process of gene transmission, mutation, expression, and regulation. New chapter openers include a new section highlighting scientific competencies, while end-of-

chapter Guide to Problem-Solving sections demonstrate the concepts needed to efficiently solve problems and understand the reasoning behind the correct answer. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

<u>Genome</u> Jerry E. Bishop, Michael Waldholz, 1990 Studies the attempt to map all the genes in the human body, examining the resulting breakthroughs and the implications for research.

The Missing Gene Jay Joseph,2006 What causes psychiatric disorders to appear? Are they primarily the result of people's environments, or of their genes? Increasingly, we are told that research has confirmed the importance of genetic influences on schizophrenia, depression, bipolar disord.

Genes 7 Benjamin Lewin,2000 Genes VII gives an integrated and authoritative account of the structure and function of genes. It is thoroughly up to date with the latest research and thinking in the field. Successive editions have provided an integrated account of the whole field of modern molecular genetics and thisedition continues that approach, providing a new synthesis and continuing the greater emphasis on how genes function in their biological context. In a change to all previous editions, which started with a traditional analysis of formal genetics, this seventh edition has been organised to present thesubject in the context of the eukaryotic gene as revealed in the last decade, an analysis based directly on the molecular properties of the gene itself. From the Preface: The thesis of Genes is that only by understanding the structure and function of the gene itself will we be able in turn to understand the operation of the genome as a whole. Although the emphasis has shifted to the characterization of eukaryotic genes, and therefore to theiranalysis by the direct techniques of molecular biology rather than the subtlety of genetics, the classical approach remains intellectually penetrating. It remains an aim of this book to integrate both approaches in the context of a unified approach to prokaryotes and eukaryotes.

Gene Function Robert E. Glass, 1982-01-01

Lewin's Essential GENES Jocelyn Krebs, Benjamin Lewin, Elliott S. Goldstein, Stephen T. Kilpatrick, 2010 The new edition of Lewin's Essential GENES is the most accessible, student-friendly text of its kind! Completely revised and rewritten, the Second Edition continues to provide students with the latest findings in the field of molecular biology and molecular genetics. An exceptional new pedagogy enhances student learning and helps readers understand and retain key material like never before. New Concept and Reasoning Checks at the end of each chapter section, End of Chapter Questions and Further Readings for each chapter, and several categories of special topics boxes within each chapter expand and reinforce important concepts. The reorganization of topics in this edition allows students to focus more sharply on the key material at hand and improves the natural flow of course material. New end-of-chapter questions reviews major points in the chapter and allow students to test themselves on important course material.

Gene Interactions in Development L. I. Korochkin,2012-12-06 Since the Russian edition of this book was published in 1975 many new research works have appeared which have made necessary some additions for the English edition, to reflect progress in molecular developmental genetics. Recent important findings in this field have brought about essential corrections to the concept of genetic regulation of the process of cell differentiation. The discovery of the mosaic structure of a gene prompted the re evaluation of our considerations about the regulation of gene activity in eukaryotes, and the data about transcriptional events during ontogenesis are of great importance as well. Formerly it was generally accepted that a derepression of genes was responsible for cell differentiation in the process of develop ment. Recently three important conclusions have been derived (Davidson and Britten, 1979) which help to pose the problem in a new way: 1) Only a small part of single copy sequences of DNA is represented in nuclear RNA of a given type of cell or tissue: 10% to 20% in sea urchin embryos, 11 % in rat liver, 4% to 6% in Drosophila cell culture, etc. Since only about 10% of single copy sequences represent the structural genes (Davidson and Britten, 1973), transcription of almost the whole set of structural

genes occurs.

The Gene Elof Axel Carlson, 1966

Enjoying the Beat of Appearance: An Emotional Symphony within Gene

In some sort of taken by monitors and the ceaseless chatter of fast connection, the melodic splendor and mental symphony produced by the written word frequently disappear in to the background, eclipsed by the persistent noise and interruptions that permeate our lives. But, nestled within the pages of **Gene** a marvelous fictional prize filled with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this fascinating masterpiece conducts visitors on an emotional journey, skillfully unraveling the hidden tunes and profound impact resonating within each carefully constructed phrase. Within the depths with this emotional examination, we can investigate the book is central harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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