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Daniel L. Hartl is Higgins Professor of Biology at Harvard University, a Professor of Immunology and Infectious Diseases at the Harvard T. H. Chan School of Public Health, and a Senior Associate Member of the Broad Institute of M.I.T. and Harvard. He is a member of the National Academy of Sciences and the American Academy of Arts and Sciences.

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Hartl received his B.S. degree and Ph.D. from the University of Wisconsin and carried out postdoctoral research at the University of California at Berkeley. His research interests include molecular genetics, genomics, molecular evolution, and population genetics.

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Daniel L. Hartl is Higgins Professor of Biology at Harvard University, a Professor of Immunology and Infectious Diseases at the Harvard T. H. Chan School of Public Health, and a Senior Associate Member of the Broad Institute of M.I.T. and Harvard.

Companion Website to accompany Essential Genetics

Essential Genetics - Book Alone: A Genomics Perspective, Edition 6 - Ebook written by Daniel L. Hartl. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while you read Essential Genetics - Book Alone: A Genomics Perspective, Edition 6.

Updated to reflect the latest discoveries in the field, the Fifth Edition of Hartl's classic text provides an accessible, student-friendly introduction to contemporary genetics. Designed for the shorter, less comprehensive introductory course, Essential Genetics: A Genomic Perspective, Fifth Edition includes carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation. New and updated sections on genetic analysis, molecular genetics, probability in genetics, and pathogenicity islands ensure that students are kept up-to-date on current key topics. The text also provides students with a sense of the social and historical context in which genetics has developed. The updated companion web site provides numerous study tools, such as animated flashcards, crosswords, practice quizzes and more! New and expanded end-of-chapter material allows for a mastery of key genetics concepts and is ideal for homework assignments and in-class discussion.

Every new copy includes access to the student companion website Updated throughout to reflect the latest discoveries in this fast-paced field, Essential Genetics: A Genomics Perspective, Sixth Edition, provides an accessible, student-friendly introduction to modern genetics. Designed for the shorter, less comprehensive course, the Sixth Edition presents carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation. It goes on to discuss the development and progression of genetics as a field of study within a societal and historical context. The Sixth Edition includes new learning objectives within each chapter which helps students identify what they should know as a result of their studying and highlights the skills they should acquire through various practice problems. What's new in the Sixth Edition? Chapter 1 includes a new section on the origin of life Chapter 2 includes a revised discussion of the complementation test and how it is used to determine whether two mutations have defects in the same gene Chapter 3 incorporates new data showing that the folding of interphase chromatin into chromosome territories has the form of a fractal globule. It also includes a new section on progenitor cells and embryonic stem cells Chapter 4 includes a new section discussing how copy-number variation in human amylase evolved in response to increased dietary starch as well as the latest on hotspots of recombination Chapter 5 is updated with the latest information on hazards of polycarbonate food containers. It also includes a new section on the genetics of schizophrenia and autism spectrum disorder Chapter 6 includes a revised section on restriction mapping and also discusses the newest massively parallel DNA sequencing technologies that can yield the equivalent of 200 human genomes' worth of DNA sequence in a single sequencing run Chapter 7 has been updated with a shortened and streamlined discussion of recombination in bacteriophage Chapter 8 includes new discoveries concerning the mechanisms of intrinsic transcriptional termination as well as rho-dependent termination Chapter 9 is updated with a new section on stochastic effects on gene expression and an expanded discussion of the lactose operon. There is also a revised discussion of galactose gene regulation in yeast, as well as new sections on non coding RNAs Chapter 10 includes new sections on ancient DNA sequences of the Neandertal and Denisovan genomes Chapter 11 examines master control genes in development Chapter 12 includes a new section on the repair of double-stranded breaks in DNA by nonhomologous end joining or template-directed gap repair Chapter 13 has been extensively revised with the latest data on cancer. Chapter 14 includes a new section on the detection of natural selection, as well as a new section on conservation genetics Key Features of Essential Genetics, Sixth Edition: New Learning Objectives within each

Completely updated to reflect new discoveries and current thinking in the field, the Fourth Edition of Essential Genetics is designed for the shorter, less comprehensive introductory course in genetics. The text is written in a clear, lively, and concise manner and includes many special features that make the book user friendly. Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission, mutation, expression, and regulation. The text also helps students develop skills in problem solving, achieve a sense of the social and historical context in which genetics has developed, and become aware of the genetic resources and information available through the Internet.

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.

Essential Genetics and Genomics is the ideal textbook for the shorter, less comprehensive genetics course. It presents carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation.

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In response to many requests, the Third Edition of A Primer of Population Genetics has been dramatically shortened and streamlined for greater accessibility. Designed primarily for undergraduates, it will also serve for graduate students and professionals in biology and other sciences who desire a concise but comprehensive overview of the field with a primary focus on the integration of experimental results with theory. The abundance of experimental data generated by the use of molecular methods to study genetic polymorphisms sparked a transformation in the field of population genetics. Present in virtually all organisms, molecular polymorphisms allow populations to be studied without regard to species or habitat, and without the need for controlled crosses, mutant genes, or for any prior genetic studies. Thus a familiarity with population genetics has become essential for any biologist whose work is at the population level. These fields include evolution, ecology, systematics, plant breeding, animal breeding, conservation and wildlife management, human genetics, and anthropology. Population genetics seeks to understand the causes of genetic differences within and among species, and molecular biology provides a rich repertoire of techniques for identifying these differences.

In 1865, Gregor Mendel presented "Experiments in Plant-Hybridization," the results of his eight-year study of the principles of inheritance through experimentation with pea plants. Overlooked in its day, Mendel's work would later become the foundation of modern genetics. Did his pioneering research follow the rigors of real scientific inquiry, or was Mendel's data too good to be true-the product of doctored statistics? In Ending the Mendel-Fisher Controversy, leading experts present their conclusions on the legendary controversy surrounding the challenge to Mendel's findings by British statistician and biologist R. A. Fisher. In his 1936 paper "Has Mendel's Work Been Rediscovered?" Fisher suggested that Mendel's data could have been falsified in order to support his expectations. Fisher attributed the falsification to an unknown assistant of Mendel's. At the time, Fisher's criticism did not receive wide attention. Yet beginning in 1964, about the time of the centenary of Mendel's paper, scholars began to publicly discuss whether Fisher had successfully proven that Mendel's data was falsified. Since that time, numerous articles, letters, and comments have been published on the controversy. This self-contained volume includes everything the reader will need to know about the subject: an overview of the controversy; the original papers of Mendel and Fisher; four of the most important papers on the debate; and new updates, by the authors, of the latter four papers. Taken together, the authors contend, these voices argue for an end to the controversy-making this book the definitive last word on the subject.

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