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Extensively reorganized and revised with the latest data from this rapidly changing field, Lewin's Essential GENES, Fourth Edition, provides students with a comprehensive overview of molecular biology and molecular genetics. The authors took care to carefully modify the chapter order in an effort to provide a more clear and student-friendly presentation of course material. Chapter material has been updated throughout, including a completely revised chapter on regulatory RNA, to keep pace with this advancing field. The Third Editions exceptional pedagogy enhances student learning and helps readers understand and retain key material like never before. Concept and Reasoning Checks at the end of each chapter section, End-of-Chapter Questions and Further Readings sections, as well as several categories of special topics boxes, expand and reinforce important concepts.

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Up to date and extensively revised to reflect recent advances in the genetics of common diseases, as well as current progress in gene therapy, Medical Genetics, 6th Edition, delivers easy-to-read, highly visual coverage of this rapidly changing field. This accessible, practical text integrates key concepts with clinical practice, highlighted by numerous illustrations, tables, concept summaries, and more – all designed to enhance effective learning and retention of complex material. Discusses current topics including polygenic risk scores and their potential applications for diabetes, cancer, and heart disease, and the latest sequencing technologies and their clinical application in genetic testing and diagnosis. Offers a completely updated discussion of genetic testing modalities and applications. Includes convenient concept summaries, more than 230 photographs, illustrations, and tables, as well as patient/family vignettes that present valuable perspectives on disease and treatment. Features Clinical Commentary boxes that demonstrate how the hard science of genetics has real applications to everyday patient problems, preparing you for problem-based integrated courses. Illustrates key concepts with disease examples to demonstrate relevance to medicine. Provides study questions for self-assessment, as well as 200 additional USMLE-style questions online. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

Jacket.
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?????:Advances in cell biology
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Join the generations of students who have embarked on successful careers with a firm foundation in the theory and practice of blood banking and transfusion practices. Denise Harmening's classic text teaches you not only how to perform must-know tests and tasks, but to understand the scientific principles behind them.

This volume contains a unique selection of chapters covering a wealth of contemporary topics in this ubiquitous and diverse system of cell signaling. It offers much more than the accessibility and authority of a primary text book, exploring topics ranging from the fundamental aspects of calcium signaling to its varied clinical implications. It presents comprehensive discussion of cutting-edge research alongside detailed analysis of critical issues, at the same time as setting out testable hypotheses that point the way to future scientific endeavors. The contributions feature material on theoretical and methodological topics as well as related subjects including mathematical modeling and simulations. They examine calcium signaling in a host of contexts, from mammalian cells to bacteria, fruit fly and zebrafish. With much of interest to newcomers to the field as well as seasoned experts, this new publication is both wide-ranging and authoritative. The chapter "Calcium Signaling: From Basic to Bedside" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

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Now in its twelfth edition, Lewin's GENES continues to lead with new information and cutting-edge developments, covering gene structure, sequencing, organization, and expression. Leading scientists provide revisions and updates in their individual field of study offering readers current data and information on the rapidly changing subjects in molecular biology.

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