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Mouse Genetics offers for the first time in a single comprehensive volume a practical guide to mouse breeding and genetics. Nearly all human genes are present in the mouse genome, making it an ideal organism for genetic analyses of both normal and abnormal aspects of human biology. Written as a convenient reference, this book provides a complete description of the laboratory mouse, the tools used in analysis, and procedures for carrying out genetic studies, along with background material and statistical information for use in ongoing data analysis. It thus serves two purposes, first to provide students with an introduction to the mouse as a model system for genetic analysis, and to give practicing scientists a detailed guide for performing breeding studies and interpreting experimental results. All topics are developed completely, with full explanations of critical concepts in genetics and molecular biology. As investigators around the world are rediscovering both the heuristic and practical value of the mouse genome, the demand for a succinct introduction to the subject has never been greater. Mouse Genetics is intended to meet the needs of this wide audience.

Human genetics has blossomed from an obscure branch of biological science and occasional explanation for exceedingly rare disorders to a field all of its own that affects everyone. Human Genetics: The Basics introduces the key questions and issues in this emerging field, including: The common ancestry of all humanity The role of genes in sickness and health Debates over

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the use of genetic technology Written in an engaging, narrative manner, this concise introduction is an ideal starting point for anyone who wants to know more about genes, DNA, and the genetic ties that bind us all.

Psychiatrists and other mental health professionals are increasingly confronted with questions about the genetics of psychiatric illness, and the clinical applications of new genetic findings. *Psychiatric Genetics: A Primer for Clinical and Basic Scientists* addresses these questions through a straightforward introduction to the essentials of psychiatric genetics, complementing more comprehensive textbooks that may seem overwhelming for those new to the field. Written and edited by leaders in the field and the International Society of Psychiatric Genetics (ISPG), the book covers basic epidemiology, recruitment for human studies, phenotyping strategies, formal genetic and molecular genetic studies, statistical genetics, bioinformatics and genomics, pharmacogenetics, the most relevant animal models, and biobanking. Each chapter begins with a list of "take home" points that summarizes content, followed by a brief overview of current knowledge and suggestions for further reading. This Primer is ideal for medical students, psychiatric residents, psychiatrists, and basic neuroscience researchers who are interested in learning about the key concepts and recent advances in the exciting field of psychiatric genetics.

Explore the latest research in anthropological genetics and understand the genome's role in cultural and social development *A Companion to Anthropological Genetics* illustrates the role of genetic analysis in advancing the modern study of human origins, populations, evolution, and diversity. Broad in scope, this essential reference work establishes and explores the relationship between genetic research and the major questions of anthropological study.

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Through contributions by leading researchers, this collection explores molecular genetics and evolutionary mechanisms in the context of macro- and microevolution, paleontology, phylogeny, diet, and disease, with detailed explanations of quantitative methods, including coalescent and approximate Bayesian computation. With an emphasis on contextualizing new and developing genetic research within anthropological frameworks, this text offers critical perspective on the conditions of molecular evolution that accompany cultural and social transformation, while also addressing critical disciplinary questions, such as the ethical issues surrounding ancestry testing and community-based genetic research. Acts as an essential reference on the contributions of genetic science to the field of anthropology Features new work by leading researchers of the field Explores the evolution of immunity, including the genetics and epigenetics of pathogens, chronic illness, and disease resistance Provides in-depth examination of mutation and dietary adaptation, including AMY1, lactase persistence, and sensory polymorphisms Explains essential quantitative and phylogenetic methods for aligning genomic analysis with evolution and migration time scales Offering thorough coverage on leading questions and developing research, *A Companion to Anthropological Genetics* is a comprehensive resource for students and scholars.

Medical and Health Genomics provides concise and evidence-based technical and practical information on the applied and translational aspects of genome sciences and the technologies related to non-clinical medicine and public health. Coverage is based on evolving paradigms of genomic medicine—in particular, the relation to public and population health genomics now being rapidly incorporated in health management and administration, with further implications for clinical population and disease management. Provides extensive coverage of the emergent

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field of health genomics and its huge relevance to healthcare management Presents user-friendly language accompanied by explanatory diagrams, figures, and many references for further study Covers the applied, but non-clinical, sciences across disease discovery, genetic analysis, genetic screening, and prevention and management Details the impact of clinical genomics across a diverse array of public and community health issues, and within a variety of global healthcare systems

Genomics of Rare Diseases: Understanding Disease Genetics Using Genomic Approaches, a new volume in the Translational and Applied Genomics series, offers readers a broad understanding of current knowledge on rare diseases through a genomics lens. This clear understanding of the latest molecular and genomic technologies used to elucidate the molecular causes of more than 5,000 genetic disorders brings readers closer to unraveling many more that remain undefined and undiscovered. The challenges associated with performing rare disease research are also discussed, as well as the opportunities that the study of these disorders provides for improving our understanding of disease architecture and pathophysiology. Leading chapter authors in the field discuss approaches such as karyotyping and genomic sequencing for the better diagnosis and treatment of conditions including recessive diseases, dominant and X-linked disorders, de novo mutations, sporadic disorders and mosaicism. Compiles applied case studies and methodologies, enabling researchers, clinicians and healthcare providers to effectively classify DNA variants associated with disease and patient phenotypes Discusses the main challenges in studying the genetics of rare diseases through genomic approaches and possible or ongoing solutions Explores opportunities for novel therapeutics Features chapter contributions from leading researchers

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and clinicians

Includes print student edition

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,

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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.

Fascinating narrative science that explores the next frontier in medicine and genetics through the very personal prism of the children and families gene therapy has touched. Eight-year-old Corey Haas was nearly blind from a hereditary disorder when his sight was restored through a delicate procedure that made medical history. Like something from a science fiction novel, doctors carefully injected viruses bearing healing genes into the DNA of Corey's eyes—a few days later, Corey could see, his sight restored by gene therapy. THE FOREVER FIX is the first book to tell the fascinating story of gene therapy: how it works, the science behind it, how patients (mostly children) have been helped and harmed, and how scientists learned from each trial to get one step closer to its immense promise, the promise of a "forever fix," - a cure that, by fixing problems at their genetic root, does not need further surgery or medication. Told through the voices of the children and families who have been the inspiration, experimental subjects, and successes of genetic science, THE FOREVER FIX is compelling and engaging

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narrative science that tells explores the future of medicine as well as the families and scientists who are breaking new ground every day.

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An Introduction to Human Molecular Genetics Second Edition Jack J. Pasternak The Second Edition of this internationally acclaimed text expandsits coverage of the molecular genetics of inherited human diseaseswith the latest research findings and discoveries. Using a unique,systems-based approach, the text offers readers a thoroughexplanation of the gene discovery process and how defective genesare linked to inherited disease states in major organ and tissuesystems. All the latest developments in functional genomics,proteomics, and microarray technology have been thoroughlyincorporated into the text. The first part of the text introduces readers to the fundamentalsof cytogenetics and Mendelian genetics. Next, techniques andstrategies for gene manipulation, mapping, and isolation areexamined. Readers will particularly appreciate the text'sexceptionally thorough and clear explanation of genetic mapping.The final part features unique coverage of the molecular geneticsof distinct biological systems, covering muscle, neurological, eye,cancer, and mitochondrial

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disorders. Throughout the text, helpful figures and diagrams illustrate and clarify complex material. Readers familiar with the first edition will recognize the text's same lucid and engaging style, and will find a wealth of new and expanded material that brings them fully up to date with a current understanding of the field, including:

- * New chapters on complex genetic disorders, genomic imprinting, and human population genetics
- * Expanded and fully revised section on clinical genetics, covering diagnostic testing, molecular screening, and various treatments

This text is targeted at upper-level undergraduate students, graduate students, and medical students. It is also an excellent reference for researchers and physicians who need a clinically relevant reference for the molecular genetics of inherited human diseases.

Human Genetics, Eighth Edition, is a non-science majors human genetics text that clearly explains what genes are, how they function, how they interact with the environment, and how our understanding of genetics has changed since completion of the human genome project. It is a clear, modern, and exciting book for citizens who will be responsible for evaluating new medical options, new foods, and new technologies in the age of genomics.

Never HIGHLIGHT a Book Again Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780872893795. This item is

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printed on demand.

Concepts of Genetics emphasises the fundamental ideas of genetics, while exploring modern techniques and applications of genetic analysis.

Despite the substantial interest in landscape genetics from the scientific community, learning about the concepts and methods underlying the field remains very challenging. The reason for this is the highly interdisciplinary nature of the field, which combines population genetics, landscape ecology, and spatial statistics. These fields have traditionally been treated separately in classes and textbooks, and very few scientists have received the interdisciplinary training necessary to efficiently teach or apply the diversity of techniques encompassed by landscape genetics. To address the current knowledge gap, this book provides the first in depth treatment of landscape genetics in a single volume. Specifically, this book delivers fundamental concepts and methods underlying the field, covering particularly important analytical methods in detail, and presenting empirical and theoretical applications of landscape genetics for a variety of environments and species. Consistent with the interdisciplinary nature of landscape genetics, the book combines an introductory, textbook like section with additional sections on advanced topics and applications that are more typical of edited volumes. The chapter topics and the expertise of the authors and the

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editorial team make the book a standard reference for anyone interested in landscape genetics. The book includes contributions from many of the leading researchers in landscape genetics. The group of scientists we have assembled has worked on several collaborative projects over the last years, including a large number of peer reviewed papers, several landscape genetics workshops at international conferences, and a distributed graduate seminar on landscape genetics. Based on the experiences gained during these collaborative teaching and research activities, the book includes chapters that synthesize fundamental concepts and methods underlying landscape genetics (Part 1), chapters on advanced topics that deserve a more in depth treatment (Part 2), and chapters illustrating the use of concepts and methods in empirical applications (Part 3). This structure ensures a high usefulness of the book for beginning landscape geneticists and experienced researchers alike, so that it has a broad target audience. At least one of the four co editors is involved in almost every chapter of the book, thereby ensuring a high consistency and coherency among chapters. The new field of toxicogenomics presents a potentially powerful set of tools to better understand the health effects of exposures to toxicants in the environment. At the request of the National Institute of Environmental Health Sciences, the National Research Council assembled a committee to identify the benefits of

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toxicogenomics, the challenges to achieving them, and potential approaches to overcoming such challenges. The report concludes that realizing the potential of toxicogenomics to improve public health decisions will require a concerted effort to generate data, make use of existing data, and study data in new ways--an effort requiring funding, interagency coordination, and data management strategies.

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.

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Debating Human Genetics is based on ethnographic research focusing primarily on the UK publics who are debating and engaging with human genetics, and related bio and techno-science. Drawing on recent interviews and data, collated in a range of public settings, it provides a unique overview of multiple publics as they 'frame' the stake of the debates in this emerging, complex and controversial arena. The book outlines key sites and applications of human genetics that have sparked public interest, such as biobanks, stem cells, genetic screening and genomics. It also addresses the 'scientific controversies' that have made considerable impact in the public sphere – the UK police DNA database, gene patenting, 'saviour siblings', and human cloning. By grounding the concepts and issues of human genetics in the real life narratives and actions of patient groups, genetic watchdogs, scientists, policy makers, and many other public groups, the book exemplifies how human genetics is a site where public knowledge and value claims converge and collide, and identifies the emergence

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of 'hybrid publics' who are engaging with this hybrid science.

Provides exercises that cover the concepts of human genetics found in the textbook.

By Ricki Lewis Compelling, human interest examples from the author's extensive experience as a genetic counselor and science journalist keep the students interested in the textual material. This text weaves relevance throughout by including stories about real people dealing with real genetic issues. Through "In Their Own Words Essays," individuals tell of their experience with genetic conditions. In addition, "Bioethics: Choices for the Future Boxes," found at the ends of appropriate chapters, encourage students to ask difficult questions of themselves, and to predict how the new science of genetics might impact their lives. Visit the Online Learning Center

Human Genetics: Concepts and Applications, ninth edition clearly explains what genes are, how they function, how they interact with the environment, and how our understanding of genetics has changed since completion of the human genome project. Meticulously updated, focused on concepts, and rich with personal stories from people whose lives are dramatically affected by the principles being discussed, Human Genetics is a textbook that will prepare the next generation of citizens for the decisions that lie ahead. Includes Print student edition
A complete introductory text on how to integrate basic genetic principles into the practice of clinical medicine Medical Genetics is the first text to focus on the everyday application of

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genetic assessment and its diagnostic, therapeutic, and preventive implications in clinical practice. It is intended to be a text that you can use throughout medical school and refer back to when questions arise during residency and, eventually, practice. Medical Genetics is written as a narrative where each chapter builds upon the foundation laid by previous ones. Chapters can also be used as stand-alone learning aids for specific topics. Taken as a whole, this timely book delivers a complete overview of genetics in medicine. You will find in-depth, expert coverage of such key topics as: The structure and function of genes Cytogenetics Mendelian inheritance Mutations Genetic testing and screening Genetic therapies Disorders of organelles Key genetic diseases, disorders, and syndromes Each chapter of Medical Genetics is logically organized into three sections: Background and Systems – Includes the basic genetic principles needed to understand the medical application Medical Genetics – Contains all the pertinent information necessary to build a strong knowledge base for being successful on every step of the USMLE Case Study Application – Incorporates case study examples to illustrate how basic principles apply to real-world patient care Today, with every component of health care delivery requiring a working knowledge of core genetic principles, Medical Genetics is a true must-read for every clinician.

Raising hopes for disease treatment and prevention, but also the specter of discrimination and "designer genes," genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly evolving field, offering principles for actions and research and recommendations on key issues in genetic testing and screening. Advantages of early genetic knowledge are balanced with issues associated with such knowledge: availability of treatment, privacy and discrimination, personal decisionmaking,

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public health objectives, cost, and more. Among the important issues covered: Quality control in genetic testing. Appropriate roles for public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in insurance, employment, and other settings.

Pan-genomics: Applications, Challenges, and Future Prospects covers current approaches, challenges and future prospects of pan-genomics. The book discusses bioinformatics tools and their applications and focuses on bacterial comparative genomics in order to leverage the development of precise drugs and treatments for specific organisms. The book is divided into three sections: the first, an "overview of pan-genomics and common approaches, brings the main concepts and current approaches on pan-genomics research; the second, "case studies in pan-genomics, thoroughly discusses twelve case, and the last, "current approaches and future prospects in pan-multiomics , encompasses the developments on omics studies to be applied on bacteria related studies. This book is a valuable source for bioinformaticians, genomics researchers and several members of biomedical field interested in understanding further bacterial organisms and their relationship to human health. Covers the entire spectrum of pangenomics, highlighting the use of specific approaches, case studies and future perspectives Discusses current bioinformatics tools and strategies for exploiting pangenomics data Presents twelve case studies with different organisms in order to provide the audience with real examples of pangenomics applicability

Genome editing is a powerful new tool for making precise alterations to an organism's genetic material. Recent scientific advances have made genome editing more efficient, precise, and flexible than ever before. These advances have spurred an explosion of interest from around

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the globe in the possible ways in which genome editing can improve human health. The speed at which these technologies are being developed and applied has led many policymakers and stakeholders to express concern about whether appropriate systems are in place to govern these technologies and how and when the public should be engaged in these decisions.

Human Genome Editing considers important questions about the human application of genome editing including: balancing potential benefits with unintended risks, governing the use of genome editing, incorporating societal values into clinical applications and policy decisions, and respecting the inevitable differences across nations and cultures that will shape how and whether to use these new technologies. This report proposes criteria for heritable germline editing, provides conclusions on the crucial need for public education and engagement, and presents 7 general principles for the governance of human genome editing.

Biotechnology, Second Edition approaches modern biotechnology from a molecular basis, which has grown out of increasing biochemical understanding of genetics and physiology. Using straightforward, less-technical jargon, Clark and Pazdernik introduce each chapter with basic concepts that develop into more specific and detailed applications. This up-to-date text covers a wide realm of topics including forensics, bioethics, and nanobiotechnology using colorful illustrations and concise applications. In addition, the book integrates recent, relevant primary research articles for each chapter, which are presented on an accompanying website. The articles demonstrate key concepts or applications of the concepts presented in the chapter, which allows the reader to see how the foundational knowledge in this textbook bridges into primary research. This book helps readers understand what molecular biotechnology actually is as a scientific discipline, how research in this area is conducted, and

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how this technology may impact the future. Up-to-date text focuses on modern biotechnology with a molecular foundation Includes clear, color illustrations of key topics and concept Features clearly written without overly technical jargon or complicated examples Provides a comprehensive supplements package with an easy-to-use study guide, full primary research articles that demonstrate how research is conducted, and instructor-only resources Never HIGHLIGHT a Book Again! Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780077221270, 9780072995398 This is one of the first introductions to the sophisticated statistical methods that play a key role in research on human genetics. Topics include the estimation of allele frequencies, the testing for Hardy-Weinberg equilibrium, classical and complex segregation analysis, linkage analysis for Mendelian and complex diseases and quantitative traits, the detection of allelic associations, the estimation of heritability for multifactorial traits and path analysis Today human genetics is for everyone. It is about variation more than about illnesses and increasingly about the common rather than about the rare. Once an obscure science or an occasional explanation for an odd collection of symptoms human genetics is now part of everyday conversation. By coming to know genetic backgrounds people can control their environments in more healthy ways.

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Genetic knowledge is therefore both informative and empowering. The 10th edition of Human Genetics: Concepts and Applications shows students how and why that is true.

A neuroscientist-turned-FBI-profiler discovers a gene that produces psychopaths in *The Ripper Gene*, a thrilling debut novel from Michael Ransom. Dr. Lucas Madden is a neuroscientist-turned-FBI profiler who first gained global recognition for cloning the ripper gene and showing its dysfunction in the brains of psychopaths. Later, as an FBI profiler, Madden achieved further notoriety by sequencing the DNA of the world's most notorious serial killers and proposing a controversial "damnation algorithm" that could predict serial killer behavior using DNA alone. Now, a new murderer—the Snow White Killer—is terrorizing women in the Mississippi Delta. When Mara Bliss, Madden's former fiancée, is kidnapped, he must track down a killer who is always two steps ahead of him. Only by entering the killer's mind will Madden ultimately understand the twisted and terrifying rationale behind the murders—and have a chance at ending the psychopath's reign of terror. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Human Reproductive Genetics: Emerging Technologies and Clinical Applications presents a great reference for clinicians and researchers in reproductive

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medicine. Part I includes a brief background of genetics and epigenetics, probability of disease, and the different techniques that are being used today for analysis and genetic counseling. Part II focuses on the analysis of the embryo, current controversies and future concepts. Part III comprises different clinical scenarios that clinicians frequently face in practice. The increasing amount of genetic tests available and the growing information that patients handle makes this section a relevant part of the fertility treatment discussion. Finally, Part IV concludes with the psychological aspects of genetic counseling and the role of counselor and bioethics in human reproduction. Provides an essential reference for clinicians involved in reproductive medicine Builds foundational knowledge on new genetic tests coming into the clinical scenario for physicians involved with patients Assembles critically evaluated chapters that cover basic concepts of genetics and epigenetics and the techniques involved, including preimplantation genetic testing, controversies, and more

Genetics and Evolution of Infectious Diseases, Second Edition, discusses the constantly evolving field of infectious diseases and their continued impact on the health of populations, especially in resource-limited areas of the world. Students in public health, biomedical professionals, clinicians, public health practitioners, and decisions-makers will find valuable information in this book that is relevant to

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the control and prevention of neglected and emerging worldwide diseases that are a major cause of global morbidity, disability, and mortality. Although substantial gains have been made in public health interventions for the treatment, prevention, and control of infectious diseases during the last century, in recent decades the world has witnessed a worldwide human immunodeficiency virus (HIV) pandemic, increasing antimicrobial resistance, and the emergence of many new bacterial, fungal, parasitic, and viral pathogens. The economic, social, and political burden of infectious diseases is most evident in developing countries which must confront the dual burden of death and disability due to infectious and chronic illnesses. Takes an integrated approach to infectious diseases Includes contributions from leading authorities Provides the latest developments in the field of infectious disease

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