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The End of Epidemics

A microbiologist describes his adventure-filled career, discussing his time spent in Central

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Africa in the 1970s identifying the Ebola virus and his work there again in the 1980s as part of the area's first international AIDS efforts. 20,000 first printing.

Advances in Ebola Control

More than 30 newly emerged microorganisms and related diseases have been discovered in the past 20 years. Since these infections are so new, even infectious diseases experts and clinical microbiologists need more information. This book covers recently emerged infectious diseases based on real cases and provides comprehensive information including different aspects of the infections. Written in a "teaching" style, this book is of interest to every medical specialist and student. Includes more than 35 emerging infection cases based on the following criteria: newly emerged or re-emerged recently acquired significance in clinical practice recently radically changed in case management Offers a balanced synthesis of basic and clinical sciences for each individual case, presenting clinical courses of the cases in parallel with the pathogenesis and detailed microbiological information for each infection Describes the prevalence and incidence of the global issues and current therapeutic approaches Presents the measures for infection control

Viruses: A Very Short Introduction

"In this propulsive medical thriller--from the Pulitzer Prize winner and best-selling author--Dr.

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Henry Parsons, an unlikely but appealing hero, races to find the origins and cure of a mysterious new killer virus as it brings the world to its knees. At an internment camp in Indonesia, within one week, forty-seven people are pronounced dead with acute hemorrhagic fever. When the microbiologist and epidemiologist Henry Parsons travels there on behalf of the World Health Organization to investigate, what he finds will soon have staggering repercussions across the globe: an infected man is on his way to join the millions of worshippers in the annual Hajj to Mecca. Now, Henry joins forces with a Saudi doctor and prince in an attempt to quarantine the entire host of pilgrims in the holy city. Matilda Nachinsky, deputy director of U. S. Homeland Security, scrambles to mount a response to what may be an act of biowarfare already-fraying global relations begin to snap, one by one, in the face of a pandemic. Henry's wife Jill and their children face diminishing odds of survival in Atlanta and the disease slashes across the United States, dismantling institutions--scientific, religious, governmental--and decimating the population. As packed with suspense as it is with the riveting history of viral diseases, Lawrence Wright has given us a full-tilt, electrifying, one-of-a-kind thriller"--

The Coming Plague

The HIV epidemic has had a significant and profound impact on the world and health resources. Considerable progress has been made in understanding the risks and drivers of the epidemic. Antiretroviral drugs have relieved human suffering and prolonged life. However, access to quality management needs to scale up and be made universal. This book discusses

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critical issues related to the treatment of HIV infection and related co-infections and challenges in adherence and discordancy. New vaccine approaches discussed may provide the ultimate solution for eradication. Sharing knowledge from various experts in medical and basic sciences improves the quality of care for this persistent global threat. This book discusses emerging advances in HIV-AIDS management to support strategies for control and elimination.

Virus X

Discover the secret behind how Israel, a tiny country with the highest concentration of start-ups per capita worldwide, is raising generations of entrepreneurs who are disrupting markets around the globe and bringing change to the world. Dubbed "Silicon Wadi," Israel ranks third in the World Economic Forum Innovation Rating. Despite its small size, it attracts more venture capital per capita than any other country on the planet. What factors have led to these remarkable achievements, and what secrets do Israeli tech entrepreneurs know that others can learn? Tech insider Inbal Arieli goes against the common belief that Israel's outstanding economic accomplishments are the byproduct of its technologically advanced military or the result of long-standing Jewish traditions of study and questioning. Rather, Arieli gives credit to the unique way Israelis are raised in a culture that supports creative thinking and risk taking. Growing up within a tribal-like community, Israelis experience childhoods purposely shaped by challenges and risks—in a culture that encourages and rewards chutzpah. This has helped Israelis develop the courage to pursue unorthodox, and often revolutionary, approaches to change and innovation and is the secret behind the country's economic success. While

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chutzpah has given generations of Israelis the courage to break away from conventional thinking, the Israeli concept balagan—messiness in Hebrew—is at the root of how Israelis are taught to interact with the world. Instead of following strict rules, balagan fosters ambiguity, encouraging the development of the skills necessary for dealing with the unpredictability of life and business. Living with balagan provides Israelis with the opportunity to constantly practice the soft skills defined by the World Economic Forum as the Skills for the Future, as balagan promotes creativity, problem-solving, and independence—key characteristics of successful entrepreneurs. By revealing the unique ways in which Israelis parent, educate and acculturate, Chutzpah offers invaluable insights and proven strategies for success to aspiring entrepreneurs, parents, executives, innovators, and policymakers.

Ebola: The Natural and Human History of a Deadly Virus

Fenner and White's *Medical Virology*, Fifth Edition provides an integrated view of related sciences, from cell biology, to medical epidemiology and human social behavior. The perspective represented by this book, that of medical virology as an infectious disease science, is meant to provide a starting point, an anchor, for those who must relate the subject to clinical practice, public health practice, scholarly research, and other endeavors. The book presents detailed exposition on the properties of viruses, how viruses replicate, and how viruses cause disease. These chapters are then followed by an overview of the principles of diagnosis, epidemiology, and how virus infections can be controlled. The first section concludes with a discussion on emergence and attempts to predict the next major public health challenges.

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These form a guide for delving into the specific diseases of interest to the reader as described in Part II. This lucid and concise, yet comprehensive, text is admirably suited to the needs of not only advanced students of science and medicine, but also postgraduate students, teachers, and research workers in all areas of virology. Features updated and expanded coverage of pathogenesis and immunity Contains the latest laboratory diagnostic methods Provides insights into clinical features of human viral disease, vaccines, chemotherapy, epidemiology, and control

DNA

Essential resource for the fight against emerging infectious diseases Incidences such as the 2014 Ebola epidemic in West Africa and the 2015 appearance of Zika in Brazil provide dramatic evidence of the continued ability of microbes to emerge, spread, adapt, and threaten global health. The challenge facing infectious disease specialists and public health professionals is to improve and find new diagnostic, therapeutic, and prevention strategies. The editors of the 10th installment of the Emerging Infections series have compiled the perspectives of leading infectious disease experts into 22 chapters that provide important updates on a broad range of emerging and reemerging bacterial, viral, parasitic, and fungal infectious diseases in the United States and globally. In addition to focusing on MERS, Ebola virus disease, chikungunya, and Zika virus disease, Emerging Infections 10 explores the global threat of antimicrobial resistance in reviews on carbapenem-resistant Enterobacteriaceae, multiply-resistant gonococcal infections, non-typhoidal Salmonella infections, and artemisinin-

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resistant *Plasmodium falciparum* malaria. Topics include both recently- and long-recognized diseases that pose challenges for the clinical, laboratory, research, public health, and animal health communities. *Emerging Infections 10* presents new and emerging strategies to prevent, control, and eradicate infectious diseases and guides readers to the primary literature where they can explore individual topics in greater depth. This book is a valuable reference for professionals in microbiology, epidemiology, public health, and clinical and veterinary medicine.

Emerging Infectious Diseases from the Global to the Local Perspective

Explores the origins of HIV and Ebola and argues that these emerging viruses did not jump from monkey to man, but rather were laboratory creations transmitted via vaccines in the U.S. and Africa

And The Band Played on

A leading epidemiologist shares his "powerful and necessary" (Richard Preston, author of *The Hot Zone*) stories from the front lines of our war on infectious diseases and explains how to prepare for global epidemics -- featuring a new preface on COVID-19. Unlike natural disasters, whose destruction is concentrated in a limited area over a period of days, and illnesses, which have devastating effects but are limited to individuals and their families, infectious disease has

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the terrifying power to disrupt everyday life on a global scale, overwhelming public and private resources and bringing trade and transportation to a grinding halt. In today's world, it's easier than ever to move people, animals, and materials around the planet, but the same advances that make modern infrastructure so efficient have made epidemics and even pandemics nearly inevitable. And as outbreaks of COVID-19, Ebola, MERS, and Zika have demonstrated, we are woefully underprepared to deal with the fallout. So what can -- and must -- we do in order to protect ourselves from mankind's deadliest enemy? Drawing on the latest medical science, case studies, policy research, and hard-earned epidemiological lessons, *Deadliest Enemy* explores the resources and programs we need to develop if we are to keep ourselves safe from infectious disease. The authors show how we could wake up to a reality in which many antibiotics no longer cure, bioterror is a certainty, and the threat of a disastrous influenza or coronavirus pandemic looms ever larger. Only by understanding the challenges we face can we prevent the unthinkable from becoming the inevitable. *Deadliest Enemy* is high scientific drama, a chronicle of medical mystery and discovery, a reality check, and a practical plan of action.

AIDS and the Doctors of Death

AIDS, Ebola, "mad cow disease," "flesh-eating" viruses Today's newspapers are full of articles about new plagues & viruses. Where do these new viruses come from? Why do new plagues arise? Could there be - will there be - a lethal & incurable Virus X that spreads as easily as the common cold? The author, a renowned authority on diseases, presents a radical theory about

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the origin of deadly microbes in a book that takes us into the "hot zones" of today's most dangerous viral outbreaks, then into the research labs & hospitals where doctors & scientists are risking their lives trying to control them.

Encyclopedia of Virology

□A frightening and fascinating masterpiece of science reporting that reads like a detective story. □Walter Isaacson In 1976 a deadly virus emerged from the Congo forest. As swiftly as it came, it disappeared, leaving no trace. Over the four decades since, Ebola has emerged sporadically, each time to devastating effect. It can kill up to 90 percent of its victims. In between these outbreaks, it is untraceable, hiding deep in the jungle. The search is on to find Ebola's elusive host animal. And until we find it, Ebola will continue to strike. Acclaimed science writer and explorer David Quammen first came near the virus while he was traveling in the jungles of Gabon, accompanied by local men whose village had been devastated by a recent outbreak. Here he tells the story of Ebola's past, present, and its unknowable future. Extracted from Spillover by David Quammen, updated and with additional material.

Emerging Viral Diseases

What Do We Know About Ebola? Authored By Two Professionals In The Medical And Science Fields, Ebola: An Emerging Infectious Disease Case Study Analyzes The Recent Outbreak Of

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The Virus From A Variety Of Angles And Provides Context For Our Understanding Of Emerging Infectious Diseases, How They Are Treated, And How Agencies And Governments Respond To Them. This Timely Resource Provides A Firm Foundation For Academic Discussions Within Microbiology, Nursing, Health Science, And Public Health Programs. Informative And Unique, It Presents Ebola As A Case Example That Serves As The Backbone For A Wider Discussion About Infectious Diseases. The History, Biology, Biotechnology, And Epidemiology Of The Ebola Virus Is Presented, As Well As The Differing Responses From International Aid Agencies, Such As The Centers For Disease Control And Prevention (CDC) And The World Health Organization (WHO) In Identifying And Containing The Recent Outbreak. By Weaving In References To News Stories That Became Part Of Our Collective Understanding Of The Outbreak, Ebola: An Emerging Infectious Disease Case Study Will Captivate Interest And Encourage Readers To Think Broadly And Critically About Emerging Infectious Diseases In The Modern Age.

The End of October

Milton Taylor, Indiana University, offers an easy-to-read and fascinating text describing the impact of viruses on human society. The book starts with an analysis of the profound effect that viral epidemics had on world history resulting in demographic upheavals by destroying total populations. It also provides a brief history of virology and immunology. Furthermore, the use of viruses for the treatment of cancer (viral oncolysis or virotherapy) and bacterial diseases (phage therapy) and as vectors in gene therapy is discussed in detail. Several chapters focus

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on viral diseases such as smallpox, influenza, polio, hepatitis and their control, as well as on HIV and AIDS and on some emerging viruses with an interesting story attached to their discovery or vaccine development. The book closes with a chapter on biological weapons. It will serve as an invaluable source of information for beginners in the field of virology as well as for experienced virologists, other academics, students, and readers without prior knowledge of virology or molecular biology.

AIDS Inc

How complex systems theory sheds new light on the adaptive dynamics of viral populations. Viruses are everywhere, infecting all sorts of living organisms, from the tiniest bacteria to the largest mammals. Many are harmful parasites, but viruses also play a major role as drivers of our evolution as a species and are essential regulators of the composition and complexity of ecosystems on a global scale. This concise book draws on complex systems theory to provide a fresh look at viral origins, populations, and evolution, and the coevolutionary dynamics of viruses and their hosts. New viruses continue to emerge that threaten people, crops, and farm animals. Viruses constantly evade our immune systems, and antiviral therapies and vaccination campaigns can be powerless against them. These unique characteristics of virus biology are a consequence of their tremendous evolutionary potential, which enables viruses to quickly adapt to any environmental challenge. Ricard Solé and Santiago Elena present a unified framework for understanding viruses as complex adaptive systems. They show how the application of complex systems theory to viral dynamics has provided new insights into the

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development of AIDS in patients infected with HIV-1, the emergence of new antigenic variants of the influenza A virus, and other cutting-edge advances. Essential reading for biologists, physicists, and mathematicians interested in complexity, *Viruses as Complex Adaptive Systems* also extends the analogy of viruses to the evolution of other replicators such as computer viruses, cancer, and languages.

The Hot Zone

Molecular Virology of Human Pathogenic Viruses presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field. The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience. Each chapter will describe the viral life cycle covering the order of classification, virion and genome structure, viral proteins, life cycle, and the effect on host and an emphasis on virus-host interaction is conveyed throughout the text. *Molecular Virology of Human Pathogenic Viruses* provides essential information for students and professionals in virology, molecular biology, microbiology, infectious disease, and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature. Presents viruses within their family structure Contains recommended journal articles with perspectives to put primary literature in context Includes integrated recommended reading references within each chapter Provides access to online

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ancillary package inclusive of annotated PowerPoint images, instructor's manual, study guide, and test bank

The Book of 528

Ebola epidemics have had immediate and lasting impact in Africa and beyond, with its high case fatality and societal disruption. Its rapid spread, coupled with the limited knowledge, serves as a recipe for disaster and panic in the community. Health workers are particularly at risk, paying heavily with their lives. Sharing knowledge from various experts in basic sciences that support vaccine and drug development, as well as improving community surveillance and case management, enriches our understanding of this highly fatal and contagious disease. In a world that is fast becoming a global village, communicable diseases from low-resource setting are gradually becoming a global health threat. This book seeks to discuss emerging advances in the Ebola control.

Emerging Zoonoses

Explores the hidden world of viruses, explaining how they profoundly affect human lives and updating the reader in current virus-related issues, such as the frenetic evolution of the HIV virus, which could pose greater dangers in the future. By the author of Parasite Rex.

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Integrating Clinical Research into Epidemic Response

In the past half century, deadly disease outbreaks caused by novel viruses of animal origin - Nipah virus in Malaysia, Hendra virus in Australia, Hantavirus in the United States, Ebola virus in Africa, along with HIV (human immunodeficiency virus), several influenza subtypes, and the SARS (sudden acute respiratory syndrome) and MERS (Middle East respiratory syndrome) coronaviruses - have underscored the urgency of understanding factors influencing viral disease emergence and spread. Emerging Viral Diseases is the summary of a public workshop hosted in March 2014 to examine factors driving the appearance, establishment, and spread of emerging, re-emerging and novel viral diseases; the global health and economic impacts of recently emerging and novel viral diseases in humans; and the scientific and policy approaches to improving domestic and international capacity to detect and respond to global outbreaks of infectious disease. This report is a record of the presentations and discussion of the event.

Healing Codes for the Biological Apocalypse

Spillover: Animal Infections and the Next Human Pandemic

The 2014-2015 Ebola epidemic in western Africa was the longest and most deadly Ebola

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epidemic in history, resulting in 28,616 cases and 11,310 deaths in Guinea, Liberia, and Sierra Leone. The Ebola virus has been known since 1976, when two separate outbreaks were identified in the Democratic Republic of Congo (then Zaire) and South Sudan (then Sudan). However, because all Ebola outbreaks prior to that in West Africa in 2014-2015 were relatively isolated and of short duration, little was known about how to best manage patients to improve survival, and there were no approved therapeutics or vaccines. When the World Health Organization declared the 2014-2015 epidemic a public health emergency of international concern in August 2014, several teams began conducting formal clinical trials in the Ebola affected countries during the outbreak. Integrating Clinical Research into Epidemic Response: The Ebola Experience assesses the value of the clinical trials held during the 2014-2015 epidemic and makes recommendations about how the conduct of trials could be improved in the context of a future international emerging or re-emerging infectious disease events.

A Dancing Matrix

New epidemics such as AIDS and "mad cow" disease have dramatized the need to explore the factors underlying rapid viral evolution and emerging viruses. This comprehensive volume is the first to describe this multifaceted new field. It places viral evolution and emergence in a historical context, describes the interaction of viruses with hosts, and details the advances in molecular biology and epidemiology that have provided the tools necessary to track developing viral epidemics and to detect new viruses far more successfully than could be done in the recent past. This unique book also lucidly details case histories and offers practical

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suggestions for the prevention of future epidemics. The contributors are leading authorities in their disciplines, and were selected both for their expert knowledge and for their ability to define and elucidate the fundamental issues. The book is highly accessible and has been written for a wide audience that includes virologists, public health authorities, medical anthropologists, evolutionary biologists, geneticists, infectious disease specialists, and social scientists interested in medical and health issues.

Emerging Viruses

A leading doctor offers answers on the one of the most urgent questions of our time: How do we prevent the next global pandemic? The 2014 Ebola epidemic in Liberia terrified the world—and revealed how unprepared we are for the next outbreak of an infectious disease. Somewhere in nature, a killer virus is boiling up in the bloodstream of a bird, bat, monkey, or pig, preparing to jump to a human being. This not-yet-detected germ has the potential to wipe out millions of lives over a matter of weeks or months. That risk makes the threat posed by ISIS, a ground war, a massive climate event, or even the dropping of a nuclear bomb on a major city pale in comparison. In *The End of Epidemics*, Harvard Medical School faculty member and Chair of the Global Health Council Dr. Jonathan D. Quick examines the eradication of smallpox and devastating effects of influenza, AIDS, SARS, and Ebola. Analyzing local and global efforts to contain these diseases and citing firsthand accounts of failure and success, Dr. Quick proposes a new set of actions which he has coined “The Power of Seven,” to end epidemics before they can begin. These actions include: - Spend prudently

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to prevent disease before an epidemic strikes, rather than spending too little, too late - Ensure prompt, open, and accurate communication between nations and aid agencies, instead of secrecy and territorial disputes - Fight disease and prevent panic with innovation and good science Practical and urgent, *The End of Epidemics* is crucial reading for citizens, health professionals, and policy makers alike.

A Planet of Viruses

Viruses and Man: A History of Interactions

While much progress has been made on achieving the Millenium Development Goals over the last decade, the number and complexity of global health challenges has persisted. Growing forces for globalization have increased the interconnectedness of the world and our interdependency on other countries, economies, and cultures. Monumental growth in international travel and trade have brought improved access to goods and services for many, but also carry ongoing and ever-present threats of zoonotic spillover and infectious disease outbreaks that threaten all. *Global Health and the Future Role of the United States* identifies global health priorities in light of current and emerging world threats. This report assesses the current global health landscape and how challenges, actions, and players have evolved over the last decade across a wide range of issues, and provides recommendations on how to

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increase responsiveness, coordination, and efficiency " both within the U.S. government and across the global health field.

Emerging Viruses

Argues that AIDS is not caused by a virus, criticizes current AIDS research, and suggests the public is being misled by the drug companies, the federal government, and the media

Global Health and the Future Role of the United States

Based on research and interviews with experts in virology, molecular biology, disease ecology, and medicine, an exploration of our battles with microbes examines the current outbreak of infectious diseases and outlines what can be done to prevent the coming plague. 25,000 first printing. Tour.

The Role of Animals in Emerging Viral Diseases

Examines the reasons people develop viral diseases, surveys current viral research, and discusses its implications for the AIDS epidemic and future viral diseases

Fenner and White's Medical Virology

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Based on the latest science, this book considers both uses and abuses of DNA - "The Sacred Spiral". Evidence proves DNA is nature's bioacoustic and electromagnetic (i.e., "spiritual") energy receiver, signal transformer, and quantum sound and light transmitter. The theory explored here is that the bioenergetics of genetics precipitates life. Revelations herein bring expanded spiritual meaning to life, physical embodiment, and even evolution. This book offers revolutionary new views of emerging genetic research consistent with metaphysics and sacred spiritual knowledge. It makes distinguished contributions to genetic science, healthcare, cancer therapy, human consciousness, and spirituality.

The Hot Zone

Viruses are big news. From pandemics such as HIV, swine flu, and SARS, we are constantly being bombarded with information about new lethal infections. In this Very Short Introduction Dorothy Crawford demonstrates how clever these entities really are. From their discovery and the unravelling of their intricate structures, Crawford demonstrates how these tiny parasites are by far the most abundant life forms on the planet. With up to two billion of them in each litre of sea water, viruses play a vital role in controlling the marine environment and are essential to the ocean's delicate ecosystem. Analyzing the threat of emerging virus infections, Crawford recounts stories of renowned killer viruses such as Ebola and rabies as well as the less known bat-borne Nipah and Hendra viruses. Pinpointing wild animals as the source of the most recent pandemics, she discusses the reasons behind the present increase in potentially fatal

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infections, as well as evidence suggesting that long term viruses can eventually lead to cancer. By examining our lifestyle in the 21st century, Crawford looks to the future to ask whether we can ever live in harmony with viruses, and considers the ways in which we may need to adapt to prevent emerging viruses with devastating consequences. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Antibodies in Viral Infection

In October 1999, the Forum on Emerging Infections of the Institute of Medicine convened a two-day workshop titled "International Aspects of Emerging Infections." Key representatives from the international community explored the forces that drive emerging infectious diseases to prominence. Representatives from the Americas, Africa, Asia and the Pacific, and Europe made formal presentations and engaged in panel discussions. Emerging Infectious Diseases from the Global to the Local Perspective includes summaries of the formal presentations and suggests an agenda for future action. The topics addressed cover a wide range of issues, including trends in the incidence of infectious diseases around the world, descriptions of the wide variety of factors that contribute to the emergence and reemergence of these diseases, efforts to coordinate surveillance activities and responses within and across borders, and the resource, research, and international needs that remain to be addressed.

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Deadliest Enemy

An examination of the AIDS crisis exposes the federal government for its inaction, health authorities for their greed, and scientists for their desire for prestige in the face of the AIDS pandemic.

Fevers, Feuds, and Diamonds

Chutzpah

The bestselling landmark account of the first emergence of the Ebola virus. Now a mini-series drama starring Julianna Margulies, Topher Grace, Liam Cunningham, James D'Arcy, and Noah Emmerich on National Geographic. A highly infectious, deadly virus from the central African rain forest suddenly appears in the suburbs of Washington, D.C. There is no cure. In a few days 90 percent of its victims are dead. A secret military SWAT team of soldiers and scientists is mobilized to stop the outbreak of this exotic "hot" virus. The Hot Zone tells this dramatic story, giving a hair-raising account of the appearance of rare and lethal viruses and their "crashes" into the human race. Shocking, frightening, and impossible to ignore, The Hot Zone proves that truth really is scarier than fiction.

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Viruses as Complex Adaptive Systems

Examines the emergence and causes of new diseases all over the world, describing a process called "spillover" where illness originates in wild animals before being passed to humans and discusses the potential for the next huge pandemic. 70,000 first printing.

Ebola

Imagine a killer with the infectiousness of the common cold and power of the Black Death. Imagine something so deadly that it wipes out 90% of those it touches. Imagine an organism against which there is no defence. But you don't need to imagine. Such a killer exists: it is a virus and its name is Ebola. The Hot Zone tells what happens when the unthinkable becomes reality: when a deadly virus, from the rain forests of Africa, crosses continents and infects a monkey house ten miles from the White House. Ebola is that reality. It has the power to decimate the world's population. Try not to panic. It will be back. There is nothing you can do

Molecular Virology of Human Pathogenic Viruses

Antibodies are central to vaccines and it is becoming increasingly apparent that understanding how antibodies combat viruses could be crucial in a new era of vaccine development. This book describes the state of the art in explaining the anti-viral activity of antibodies at the

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molecular level, with chapters from many of the leaders in the field.

Emerging Infectious Diseases

In 2014, Sierra Leone, Liberia, and Guinea suffered the worst epidemic of Ebola in history. The brutal virus spread rapidly through a clinical desert where basic health-care facilities were few and far between. Causing severe loss of life and economic disruption, the Ebola crisis was a major tragedy of modern medicine. But why did it happen, and what can we learn from it? Paul Farmer, the internationally renowned doctor and anthropologist, experienced the Ebola outbreak firsthand—Partners in Health, the organization he founded, was among the international responders. In *Fevers, Feuds, and Diamonds*, he offers the first substantive account of this frightening, fast-moving episode and its implications. In vibrant prose, Farmer tells the harrowing stories of Ebola victims while showing why the medical response was slow and insufficient. Rebutting misleading claims about the origins of Ebola and why it spread so rapidly, he traces West Africa's chronic health failures back to centuries of exploitation and injustice. Under formal colonial rule, disease containment was a priority but care was not—and the region's health care woes worsened, with devastating consequences that Farmer traces up to the present. This thorough and hopeful narrative is a definitive work of reportage, history, and advocacy, and a crucial intervention in public-health discussions around the world.

Advances in HIV and AIDS Control

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The Role of Animals in Emerging Viral Diseases presents what is currently known about the role of animals in the emergence or re-emergence of viruses including HIV-AIDS, SARS, Ebola, avian flu, swine flu, and rabies. It presents the structure, genome, and methods of transmission that influence emergence and considers non-viral factors that favor emergence, such as animal domestication, human demography, population growth, human behavior, and land-use changes. When viruses jump species, the result can be catastrophic, causing disease and death in humans and animals. These zoonotic outbreaks reflect several factors, including increased mobility of human populations, changes in demography and environmental changes due to globalization. The threat of new, emerging viruses and the fact that there are no vaccines for the most common zoonotic viruses drive research in the biology and ecology of zoonotic transmission. In this book, specialists in 11 emerging zoonotic viruses present detailed information on each virus's structure, molecular biology, current geographic distribution, and method of transmission. The book discusses the impact of virus emergence by considering the ratio of mortality, morbidity, and asymptomatic infection and assesses methods for predicting, monitoring, mitigating, and controlling viral disease emergence. Analyzes the structure, molecular biology, current geographic distribution and methods of transmission of 10 viruses Provides a clear perspective on how events in wildlife, livestock, and even companion animals have contributed to virus outbreaks and epidemics Exemplifies the "one world, one health, one medicine" approach to emerging disease by examining events in animal populations as precursors to what could affect humans

No Time to Lose: A Life in Pursuit of Deadly Viruses

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In recent years, progress in the field of virology has advanced at an unprecedented rate. Issues such as AIDS have brought the subject firmly into the public domain and its study is no longer confined solely to specialist groups. The Encyclopedia of Virology is the largest single reference source of current virological knowledge. It is also the first to bring together all aspects of the subject for a wide variety of readers. Unique in its use of concise 'mini-review' articles, the material covers biological, molecular, and medical topics concerning viruses in animals, plants, bacteria, and insects. More general articles focus on the effects of viruses on the immune system, the role of viruses in disease, oncology, gene therapy, and evolution, plus a wide range of related topics. Drawing on the latest research, the editors have produced the definitive source for both specialist and general readers. Easy-to-use and meticulously organized, the Encyclopedia of Virology clarifies and illuminates one of the most complex areas of contemporary study. It will prove an invaluable addition to libraries, universities, medical and nursing schools, and research institutions around the world. The Second Edition has been thoroughly updated with approximately 40 new articles. This edition includes more illustrations and color plates in each volume. Updated thoroughly with approximately 40 new articles Presents more illustrations than the first edition, with color plates in each volume Contains a complete subject index in each volume Provides further reading lists at the end of each entry, allowing easy access to the primary literature Extensive cross-referencing system links all related articles Contains the most recent information of particular viruses described at the 7th International Committee on Taxonomy and Classification of Viruses Provides the ability to search for entries alphabetically or via the taxonomical listings to access articles of different

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viruses

Emerging Infections 10

The book begins with a review of zoonotic pandemics of the past: the "Black Death" or bubonic plague of the Middle Ages, the Spanish Influenza pandemic (derived from avian influenza) of the early 20th century, to the more modern pandemic of AIDS/HIV infection, which originated in Africa from primates. However, the majority of chapters focus on more recent zoonoses, which have been recognized since the late 20th century to the present: · SARS and MERS coronaviruses · New avian influenza viruses · The tick-borne Henan fever virus from China · The tick-borne Heartland virus from the United States · Recently recognized bacterial pathogens, such as *Streptococcus suis* from pigs. In addition, reemergence of established zoonoses that have expanded their niche are reviewed, such as the spread of Zika virus and Chikungunya virus to the Western Hemisphere, and the emergence and spread of Ebola virus infection in Africa. A chapter is also devoted to an overview of the mechanisms and various types of animals involved in the transmission of diseases to humans, and the potential means of control and prevention. Many endemic and sporadic diseases are still transmitted by animals, through either direct or indirect contact, and zoonoses are estimated to account for about 75% of all new and emerging infectious diseases. It is predicted by public health experts that the next major pandemic of infectious disease will be of animal origin, making *Emerging Zoonoses: A Worldwide Perspective* a crucial resource to all health care specialists by providing them with much needed information on these zoonotic diseases.iv>

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