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KEY=UNDERSTANDING - LYRIC SIMPSON

Understanding Viruses

Jones & Bartlett Publishers The Second Edition of Understanding Viruses provides a balanced approach to this fascinating discipline, combining the molecular, clinical, and historical aspects of virology. Updated throughout to keep pace with this fast-paced field, the text provides a strong, comprehensive introduction to human viral diseases. New material on molecular virology as well as new virus families presented coupled with chapters on viral diseases of animals; the history of clinical trials, gene therapy, and xenotransplantation; prions and viroids; plant viruses; and bacteriophages add to the scope of the text. Chapters discussing specific viral diseases weave in an epidemiological and global perspective and include treatment and prevention information. Contemporary case studies, Refresher Boxes, and Virus Files engage students in the learning process. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

Understanding Viruses

Jones & Bartlett Learning The Third Edition of best-selling Understanding Viruses provides a strong, comprehensive introduction to human viral diseases. It provides a balanced approach to virology, combining the molecular, clinical, and historical aspects, making it the ideal text for undergraduate students majoring in biology, microbiology, medical technology, or pre-med.

Understanding Viruses with Max Axiom, Super Scientist

4D an Augmented Reading Science Experience

Graphic Science 4D Join Max Axiom as he explores the science behind viruses. Max helps young readers understand how virus attack our bodies and what we can do to protect against them. These newly revised editions feature Capstone 4D augmented reading experience, with videos, writing prompts, discussion questions, and a hands-on activity. Fans of augmented reality will love learning beyond the book!

Understanding Viruses (Second Edition)

Jones & Bartlett Publishers

Understanding Viruses, Third Edition and Encounters in Virology

Jones & Bartlett Publishers This money-saving bundle includes Understanding Viruses, Third Edition Includes Navigate 2 Advantage access AND the entertaining and informative Encounters in Virology case studies.

Understanding Viruses

This book explains what viruses are and their positive and negative effect on humans in a clear and easy to understand question and answer format.Key words are explained at the start of the book to help aid easy understanding of this important and fascinating subject.Major viral diseases such as AIDS and yellow fever are explained along with possible biotechnological and medical uses of viruses.

A Guide to Understanding Viruses

Understanding Viruses Instructor Toolkit

Understanding Viruses

Viruses: Actions and Reactions

Understanding Viruses is the Key to Effective Management

Understanding Viruses

Jones & Bartlett Learning "Combining the molecular, clinical, and historical aspects of virology, Understanding Viruses is a textbook for the modern undergraduate virology course. The text provides an introduction to human viral diseases. Additional chapters on viral diseases of animals; the history of clinical trials, gene therapy, and xenotransplantation; prions and viroids; plant viruses; and bacteriophages add to the coverage."--Jacket.

Viruses

From Understanding to Investigation

Academic Press Viruses: From Understanding to Investigation provides students with a map for lifetime learning by presenting the definition and unique characteristics of viruses, including major topics, such as the virus lifecycle, structure, taxonomy, evolution, history, host-virus interactions and methods to study viruses. In addition, the book assesses the connections between, and among, the aforementioned topics, providing an integrated approach and in-depth understanding of how viruses work. Employs a comparative strategy to emphasize unique structural and molecular characteristics that inform transmission, disease processes, vaccine strategies and host responses Presents a review of host cell and molecular biology and the immune system Features topical areas of research, including genomics in virus discovery, the virome, and beneficial interactions between viruses and their hosts Includes text boxes throughout with experimental approaches used by virologists Covers learning objectives for each chapter, methods and advances, question sets, quizzes and a glossary

Encounters in Virology

Jones & Bartlett Publishers Encounters in Virology, by author and educator Teri Shors, engages readers with 14 fascinating and thought-provoking case studies pulled from headline news. Each account describes an individual viral disease, along with the signs and symptoms that accompany it, and asks students to become

medical detectives as they move along to identify and diagnosis these potentially life-threatening viral diseases. An ideal supplement to any microbiology or virology course, as well as an entertaining and informative read, Encounters in Virology is sure to bring these realistic medical tales to life as readers race against time to solve these medical mysteries.

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Jones & Bartlett Publishers

Finding Genius

Understanding Viruses: 30 Questions, 25 Geniuses, 100 Amazing Insights

Speakeasy Marketing, Incorporated This book is the result of 30+ interviews of genius-level science professionals in various fields. They have all been asked the same set of questions, and have answered, to the best of their ability and knowledge. What you're about to read is the answers to these questions, not from all the individuals, but from the most interesting 4 or 5 who answered each question. These interviews are for two kinds of audiences: 1) curious amateurs, and 2) science, engineering, or other professionals who have a general knowledge of and curiosity about science, but who are not experts in the field being covered. At the start of my journey in science, I already had a B.S. in Chemical Engineering, but that was from 1998, certainly not 2016 when I started. Reading scientific papers was difficult at first - I understood about 10% of what I was reading. As I interviewed more scientists, researchers, clinicians and others, I started to pick up the vocabulary and thinking process needed to read scientific papers. After a year of reading, my comprehension increased, and now stands at around 70%, typically. In the areas of Physics or other sciences in which I'm not conversant, I understand about 30%. In advanced math, since it's a language unto itself, especially at high levels, I am back to the 10% level. Apply yourself, and you'll be surprised at what you can learn in a year's time.

Understanding Viruses with Max Axiom, Super Scientist

Graphic Library In graphic novel format, follows the adventures of Max Axiom as he explains the science behind viruses

Virology

Principles and Applications

Wiley Global Education The second edition of Virology is an accessible introduction designed to enable students to understand the principles of virus structure, replication and genetics. The aim of this book is to help the reader appreciate the relevance of virology in the modern world, including the fields of vaccines, anti-viral drugs and cancer. There is also a chapter on prions. The second edition has been extensively revised and updated to reflect the many developments in virology and offers deeper insights into the subject. Newly-discovered viruses are discussed and there is an additional chapter on the influenza virus.

Staying Safe from Viruses

Understanding Viruses People who feel unwell should try to avoid others. This helps stop the spread of the virus. The more contact people have with an infected person, the faster a virus spreads. Discover more in Staying Safe from Viruses, part of the Understanding Viruses series.

Viruses as Complex Adaptive Systems

Princeton University Press 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 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.

Finding Genius: Understanding Viruses

30 Questions, 25 Geniuses, 100 Amazing Insights

Introduction to Virology

The study of viruses is known as virology. It focuses on the structure, evolution and behavior of viruses. Studying them is vital, as they cause various infectious diseases like dengue, yellow fever, smallpox, etc. The classification of viruses is done on the basis of the host that they infect, like fungal viruses, bacteriophages, animal viruses, etc. This book attempts to assist those with a goal of delving into the field of virology. Coherent flow of topics, student-friendly language and extensive use of examples make this textbook an invaluable source of knowledge.

Understanding Viruses with Max Axiom, Super Scientist

4D an Augmented Reading Science Experience

Join Max Axiom as he explores the science behind viruses. Max helps young readers understand how virus attack our bodies and what we can do to protect against them. These newly revised editions feature Capstone 4D augmented reading experience, with videos, writing prompts, discussion questions, and a hands-on activity. Fans of augmented reality will love learning beyond the book!

How Does a Virus Spread?

Understanding Viruses

Rapid Medical Countermeasure

Response to Infectious Diseases

Enabling Sustainable Capabilities Through Ongoing Public- and Private-Sector Partnerships: Workshop Summary

National Academies Press Emerging infectious disease threats that may not have available treatments or vaccines can directly affect the security of the world's health since these diseases also know no boundaries and will easily cross borders. Sustaining public and private investment in the development of medical countermeasures (MCMs) before an emerging infectious disease becomes a public health emergency in the United States has been extremely challenging. Interest and momentum peak during a crisis and wane between events, and there is little interest in disease threats outside the United States until they impact people stateside. On March 26 and 27, 2015, the Institute of Medicine convened a workshop in Washington, DC to discuss how to achieve rapid and nimble MCM capability for new and emerging threats. Public- and private-sector stakeholders examined recent efforts to prepare for and respond to outbreaks of Ebola Virus Disease, pandemic influenza, and coronaviruses from policy, budget, and operational standpoints. Participants discussed the need for rapid access to MCM to ensure national security and considered strategies and business models that could enhance stakeholder interest and investment in sustainable response capabilities. This report summarizes the presentations and discussions from this workshop.

Physical Virology

Virus Structure and Mechanics

Springer This book explores a new challenge in virology: to understand how physical properties of virus particles (virions) and viruses (infected cells) affect the course of an infection. Insights from the emerging field of physical virology will contribute to understanding of the physical nature of viruses and cells, and will open new ways for anti-viral interference. Nine chapters and an editorial written by physicists, chemists, biologists and computational experts describe how virions serve as trail blazers in uncharted territory of cells. The authors outline how particles change in composition as they interact with host cells. Such virus dynamics are crucial for virus entry into cells and infection. It influences the modern concepts of virus-host interactions, viral lineages and evolution. The volume gives numerous up-to-date examples of modern

virology and provides a fascinating read for researchers, clinicians and students in the field of infectious diseases.

Molecular Virology

Garland Science Describing the fundamental molecular features of viruses, this edition emphasizes the medical importance of understanding viruses at the molecular level. It contains a detailed summary of current knowledge and provides information for any reader requiring an introduction to the field of virology.

A Planet of Viruses

Second Edition

University of Chicago Press Viruses are the smallest living things known to science, yet they hold the entire planet in their sway. They helped give rise to the first life-forms, are responsible for many of our most devastating diseases, and will continue to control our fate for centuries. Carl Zimmer, the popular science writer and New York Times columnist, takes us from the first record of the common cold to the latest frontiers of biology, where scientists are expanding our understanding of life as we know it. This revised edition includes stories of new outbreaks, such as Ebola, MERS, and chikungunya virus; new scientific discoveries, such as a hundred-million-year-old virus that infected the common ancestor of armadillos, elephants, and humans; and new findings that show why climate change may lead to even deadlier outbreaks. Zimmer's lucid explanations and intriguing stories demonstrate how deeply humans and viruses are intertwined. As reassuring as it is frightening, Planet of Viruses is a fascinating tour of a formidable hidden world. -- from back cover.

Principles of Virology, Volume 2

Pathogenesis and Control

John Wiley & Sons Principles of Virology Fourth Edition Principles of Virology is the leading virology textbook because it does more than collect and present facts about individual viruses. Instead, it facilitates an understanding of basic virology by examining the shared processes and capabilities of viruses. Using a set of representative viruses to present the complexity and diversity of a myriad of viruses, this rational approach enables students to understand how reproduction is accomplished by known viruses and provides the tools for future encounters with new or understudied viruses. This fully updated edition represents the rapidly changing field of virology. A major new feature is the inclusion of 26 video interviews with leading scientists who have made significant contributions to the field of virology. Applicable courses: undergraduate courses in virology and microbiology as well as graduate courses in virology and infectious diseases.

Introduction to Modern Virology

John Wiley & Sons Praised forits clarity of presentation and accessibility, Introduction to Modern Virology has been a successful student text for over 30 years. It provides a broad introduction to virology, which includes the nature of viruses, the interaction of viruses with their hosts and the consequences of those interactions that lead to the diseases we see. This new edition contains a number of important changes and innovations including: The consideration of immunology now covers two chapters, one on innate immunity and the other on adaptive immunity, reflecting the explosion in knowledge of viral interactions with these systems. The coverage of vaccines and antivirals has been expanded and separated into two new chapters to reflect the importance of these approaches to prevention and treatment. Virus infections in humans are considered in more detail with new chapters on viral hepatitis, influenza, vector-borne diseases, and exotic and emerging viral infections, complementing an updated chapter on HIV. The final section includes three new chapters on the broader aspects of the influence of viruses on our lives, focussing on the economic impact of virus infections, the ways we can use viruses in clinical and other spheres, and the impact that viruses have on the planet and almost every aspect of our lives. A good basic understanding of viruses is important for generalists and specialists alike. The aim of this book is to make such understanding as accessible as possible, allowing students across the biosciences spectrum to improve their knowledge of these fascinating entities.

Henipavirus

Ecology, Molecular Virology, and Pathogenesis

Springer Science & Business Media Henipaviruses form a new genus of emerging paramyxoviruses that are the deadliest human pathogens within the Paramyxoviridae family. This volume deals with the many facets of henipavirus biology, and covers our current understanding regarding the ecology, molecular virology, and pathogenesis of henipavirus infections. It is an international effort written by a multidisciplinary panel of experts at the front lines of research into this lethal emerging group of paramyxoviruses. The first section introduces the epidemiology and ecology of Nipah and Hendra viruses in their respective endemic areas, including a first-hand account of the discovery of Nipah virus during its initial outbreak in Malaysia; the next section documents the molecular virology of henipaviruses, and the substantial advances made towards understanding the unique features of henipavirus entry and tropism; and this is followed by accounts of the clinical and pathologic features of henipavirus infections in their human and naturally infected animal hosts. The next sections on pathogenesis provide a comprehensive reference on how henipaviruses counteract the innate immune

system, and the relevant pathogenic features in animal challenge models developed to test potential therapeutic strategies. The final sections describe our current and future capabilities for diagnosis and control, including an account of potentially effective immunization strategies that are currently being tested. This book will not only serve as a useful reference for the henipavirus field; it will be useful to basic and animal virologists, ecologists, epidemiologists, physicians, and others interested in emerging infectious viral diseases, as it showcases the multidisciplinary efforts required to understand the genesis, spread and hopefully, control, of a group of lethal emerging zoonotic pathogens.

Understanding Coronavirus

Cambridge University Press Since the identification of the first cases of the coronavirus in December 2019, there has been a significant amount of confusion regarding the origin and spread of the so-called 'coronavirus', SARS-CoV-2, and the cause of the disease COVID-19. Conflicting messages from the media and officials across different countries and organizations, the abundance of disparate sources of information, unfounded conspiracy theories on the origins of the virus, unproven therapies, and inconsistent public health measures, have all served to increase anxiety in the population. Where did the virus come from? How is it transmitted? How does it cause disease? Is it like flu? What is a pandemic? In this concise and accessible introduction, a leading expert provides answers to these commonly asked questions. This revised and updated edition now also covers how the virus mutates, how important these mutations are, how vaccines work, and what we can expect in the near and long-term future.

Viruses and Society

CRC Press Viruses and Society is geared towards professionals and students in college-level introductory biology courses devoted to understanding viruses, vaccines, and their global impact. The beginning of the book introduces cells, DNA, and viruses themselves. There follows a review of how the immune system works and how scientists and physicians harness the immune system to protect people through vaccines. Specific chapters will focus on the 1918 influenza pandemic, the fight to eradicate polio, the HIV/AIDS pandemic, and our current COVID-19 crisis. Additionally, the book reviews the uses of viruses in genetic engineering and in gene therapy as well. The book will conclude by describing public health initiatives to keep emerging viruses in check and the role of scientific communication in how viruses are perceived and have an impact on our society. Key Features 1) The text employs approachable and simplified language 2) Provides all the essential elements for understanding virus biology 3) Includes details on how viruses affect individuals 4) Describes the ways public health decisions are made in light of how viral pathogens spread 5) Highlights up to date scientific findings on the features of emerging viruses that will always be with us

Principles of Molecular Virology

*Elsevier The fourth edition of the hugely successful Principles of Molecular Virology takes on a molecular approach, presenting the principles of virology in a clear and concise manner. This work explores and explains the fundamental aspects of virology, including structure of virus particles and genome, replication, gene expression, infection, pathogenesis and subviral agents. The self-assessment questions, glossary and abbreviations section provide excellent revision aids and serve as handy references to students, tutors and researchers alike. NEW TO FOURTH EDITION: * New material on virus structure and virus evolution * Updated pathogenesis section covering Ebola, SARS and HIV * New section on Bioterrorism * Fully updated references * New material on virus structure, virus evolution, zoonoses, bushmeat, SARS and bioterrorism*

What Is a Virus?

Understanding Viruses A virus is a type of germ so small that it can only be seen with a microscope. Viruses were discovered in the late 1880s. Discover more in What Is a Virus?, part of the Understanding Viruses series.

Ebola’s Evolution

Turning Despair to Deliverance: a Road Map for Covid-19

Archway Publishing This book provides an intimate portrait of multiple outbreaks of Ebola in Africa and reveals how the results of that experience can help us fight COVID-19. Michael B.A. Oldstone, who led the Viral-Immunobiology Laboratory at the Scripps Research Institute worked with Ebola, teams up with Madeleine Rose Oldstone to give a detailed account of the 2013-2016 and 2018-2020 Ebola outbreaks. The authors trace the origin of the disease, its spread like a tsunami thru Guinea, Sierra Leone and Liberia, the collapse of economies, and the development of anti-viral therapies against Ebola. They compare the outbreaks of one of the world’s deadliest viruses with today’s struggle to overcome the COVID-19 pandemic. You will gain intimate knowledge of a deadly pathogen that devastated a region of the world that lacks resources to fight it, and learn why the world was unprepared for the Ebola outbreak. You will meet people who fought heroically with limited resources, including Sheik Kahn who died fighting Ebola and was declared a national hero by the Sierra Leone government, Pardis Sabeti, a geneticist working in infectious diseases from Harvard and MIT who was named “Scientist of the Year” by Time magazine, and Robert Garry, who headed the fight against viral hemorrhagic diseases and kept the White House and the press informed. Sabeti and Garry worked with Oldstone and provided information about the outbreak to the authors, making

the narrative particularly incisive and timely. Ebola's Evolution will give you a fast paced, detailed, and fascinating picture of a feared disease that killed thousands of people and threatening to become a global pandemic before it was stopped.

Plant Viruses: Evolution and Management

Springer This book focuses on the evolution of plant viruses, their molecular classification, epidemics and management, covering topics relating to evolutionary mechanisms, viral ecology and emergence, appropriate analysis methods, and the role of evolution in taxonomy. The currently emerging virus species are increasingly becoming a threat to our way of life, both economically and physically. Plant viruses are particularly significant as they affect our food supply and are capable of rapidly spreading to new plant species. In basic research, plant viruses have become useful models to analyze the molecular biology of plant gene regulation and cell-cell communication. The small size of DNA genome of viruses possesses minimal coding capacity and replicates in the host cell nucleus with the help of host plant cellular machinery. Thus, studying virus cellular processes provides a good basis for explaining DNA replication, transcription, mRNA processing, protein expression and gene silencing in plants. A better understanding of these cellular processes will help us design antiviral strategies for plants. The book provides in-depth information on plant virus gene interactions with hosts, localization and expression and the latest advances in our understanding of plant virus evolution, their responses and crop improvement. Combining characterization of plant viruses and disease management and presenting them together makes it easy to compare all aspects of resistance, tolerance and management strategies. As such, it is a useful resource for molecular biologists and plant virologists alike.

Understanding Corona Virus (COVID-19): The Only Manual You Will Need

Lulu Press, Inc Coronavirus disease is caused by a virus that is part of a large family of viruses - coronaviruses (CoV). It has been known to cause common respiratory infections ranging from common diseases like the common cold to more critical illness such as severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS). However, the coronavirus disease-causing virus (COVID-19) is a new strain of the coronaviruses that was discovered in 2019, which has never been previously identified in humans. Coronaviruses (CoV) are known to be zoonotic - that is, they are usually transmitted between humans and animals. Several investigations proved that SARS was transmitted to humans from civet cats, and MERS was also transmitted from dromedary camels to humans. There are still

several strains of coronaviruses known in animals that are yet to infect humans. Coronaviruses got their name from the resemblance of the spikes protruding from their surface with a crown and the sun's corona. They infect humans and animals, thereby causing illness in the respiratory tracts. Every year, there are at least four different strains of the coronaviruses that cause mild infections such as the common cold. Most people will get infected with at least one of these viruses at some point in their lives.

Advances In The Understanding of The Commensal Eukaryota And Viruses Of The Herbivore Gut

Frontiers Media SA

Bluetongue Viruses

Springer Science & Business Media Bluetongue viruses (BTV) cause diseases that have serious economic consequences in ruminants (sheep, cattle) in many parts of the world. The incidence of bluetongue disease affects the international movement of animals and germ plasm. Although the etiological agent of the disease was isolated in 1900 and preliminary biochemical characterizations were pub lished as early as in 1969, most of the current understanding of the molecular biology, biochemistry, and genetics of BTV has evolved only recently. Triggered by the modern techniques of molecular biology, genetics, and immunology, BTV research has experienced an information explosion in the past 10 years. However, much of this information is scattered throughout an extensive literature. It is therefore an appropriate time to meld this together into a reference book. This book includes compre hensive information on BTV research provided in articles contributed by researchers from around the world. It covers what is known about the molecular structure of the virus and the current understanding of its biology, evolution, and relationships with its invertebrate and vertebrate hosts (infection, immunity, and pathogenicity).

Viruses and Immunity

Toward Understanding Viral Immunology and Immunopathology