

Virus

Peter M. Howley,David M. Knipe,Sean Whelan,Eric O. Freed

Viruses Paula Tennant,Gustavo Fermin,Jerome E. Foster,2018-03-12 Viruses: Molecular Biology, Host Interactions, and Applications to Biotechnology provides an up-to-date introduction to human, animal and plant viruses within the context of recent advances in high-throughput sequencing that have demonstrated that viruses are vastly greater and more diverse than previously recognized. It covers discoveries such as the Mimivirus and its virophage which have stimulated new discussions on the definition of viruses, their place in the current view, and their inherent and derived ‘interactomics’ as defined by the molecules and the processes by which virus gene products interact with themselves and their host’s cellular gene products. Further, the book includes perspectives on basic aspects of virology, including the structure of viruses, the organization of their genomes, and basic strategies in replication and expression, emphasizing the diversity and versatility of viruses, how they cause disease and how their hosts react to such disease, and exploring developments in the field of host-microbe interactions in recent years. The book is likely to appeal, and be useful, to a wide audience that includes students, academics and researchers studying the molecular biology and applications of viruses Provides key insights into recent technological advances, including high-throughput sequencing Presents viruses not only as formidable foes, but also as entities that can be beneficial to their hosts and humankind that are helping to shape the tree of life Features exposition on the diversity and versatility of viruses, how they cause disease, and an exploration of virus-host interactions

Virus Marilyn J. Roossinck,Carl Zimmer,2016-08-24 Viruses are the last frontier of undiscovered life on our planet. The most abundant type of organism on Earth, they infect all types of cellular life, and, as micro-organisms that cause disease in their hosts, they are highly opportunistic and relentlessly efficient. They exist at the vanguard of DNA variance, exhibiting more structural diversity than plants, animals, archaea, or even bacteria. This 21st-century guide offers an engaging introductory section explaining exactly what viruses are and how they operate, followed by individual profiles of 101 of the world's most notable examples, each with its own dazzling mugshot

The Virus Sally Smith Hughes,1977

Viruses, Plagues, and History Michael B. A. Oldstone M.D.,2009-11-02 The story of viruses and humanity is a story of fear and ignorance, of grief and heartbreak, and of great bravery and sacrifice. Michael Oldstone tells all these stories as he illuminates the history of the devastating diseases that have tormented humanity, focusing mostly on the most famous viruses. Oldstone begins with smallpox, polio, and measles. Nearly 300 million people were killed by smallpox in this century alone and the author presents a vivid account of the long campaign to eradicate this lethal killer. Oldstone then describes the fascinating viruses that have captured headlines in more recent years: Ebola, Hantavirus, mad cow disease (a frightening illness made worse by government mishandling and secrecy), and, of course, AIDS. And he tells us of the many scientists watching and waiting even now for the next great plague, monitoring influenza strains to see whether the deadly variant from 1918--a viral strain that killed over 20 million people in 1918-1919--will make a comeback. For this revised edition, Oldstone includes discussions of new viruses like SARS, bird flu, virally caused cancers, chronic wasting disease, and West Nile, and fully updates the original text with new findings on particular viruses. Viruses, Plagues, and History paints a sweeping portrait of humanity's long-standing conflict with our unseen viral enemies. Oldstone's book is a vivid history of a fascinating field, and a highly reliable dispatch from an eminent researcher on the front line of this ongoing campaign.

I'm a Virus! Bridget Heos,2022-04-12 Scary science is introduced with humor-laced facts in this new nonfiction picture book series from a prolific, award-winning children’s book author, starting with our tiniest invader—the common cold virus, and its more frightening relatives! How does a virus make us sick? How does it spread? And what can people do to beat them? Hi, I'm Virus! And I'm here to answer all these questions and more! In friendly, simple text, the most common virus, rhinovirus (the common cold), explains how viruses work and spread. With funny, engaging, and informative illustrations, this is the perfect way to explain viruses to young children who have questions in the wake of a pandemic. The nonthreatening common cold walks readers through the basics of viruses, and then features past viruses we have defeated, as well as introducing COVID-19. The start of a new series designed to make scary science more approachable, Science Buddies is here to explain the world to curious young minds!

ZIKA VIRUS DISEASE Adnan Quereshi,2017-11-17 Zika Virus provides an authoritative account of one of most fascinating viruses of the 21st century, covering all the main points. It includes coverage of clinical manifestations, such as fever and fatigue, but also delves into neurological manifestations like acute demyelinating neuropathy. In addition, the book discusses new evidence that suggests that Zika fever in pregnant women can cause abnormal brain development in fetuses by mother-to-child transmission. The Zika virus infection has become one of the first where women are actively discouraged from getting pregnant. Readers will find this book to be a comprehensive resource on the topic. Covers every important aspect of the Zika virus disease, from biological, to social and economic impacts Focuses on women’s health issues that have surfaced, including birth defects in newborns Written in an easy to comprehend manner, with technical terms clearly defined in chapters that highlight genetics

Virusphere: Ebola, AIDS, COVID-19 and the Hidden World of the Virus Frank Ryan,2019-03-21 A virologist’s insight into how viruses evolve and why global epidemics are inevitable

Comprehensive Virology Heinz Fraenkel-Conrat,2012-12-06 The time seems ripe for a critical compendium of that segment of the biological universe we call viruses. Virology, as a science, having passed only recently through its descriptive phase of naming and num bering, has probably reached that stage at which relatively few new truly new-viruses will be discovered. Triggered by the intellectual probes and techniques of molecular biology, genetics, biochemical cytology, and high resolution microscopy and spectroscopy, the field has experienced a genuine information explosion. Few serious attempts have been made to chronicle these events. This comprehensive series, which will comprise some 6000 pages in a total of about 18 volumes, represents a commitment by a large group of active investigators to analyze, digest, and expostulate on the great mass of data relating to viruses, much of which is now amorphous and disjointed, and scattered throughout a wide literature. In this way, we hope to place the entire field in perspective, and to develop an invalua ble reference and sourcebook for researchers and students at all levels. This series is designed as a continuum that can be entered anywhere, but which also provides a logical progression of developing facts and integrated concepts.

To Catch A Virus John Booss,Marie Louise Landry,2022-10-04 To Catch a Virus Trace the evolution of diagnostic virology from yellow fever to COVID-19 Join expert storytellers John Booss, Marilyn J. August, and Marie Louise Landry in a journey through the history of viral epidemics and the detective work of those determined to identify the culprits and treat the infected. From the identification of the first virus in the late 1800s to the molecular techniques that enabled the rapid recognition of and vaccine development for the SARS-CoV-2 virus, viral diagnostic methods have progressed over the past century to become a formidable tool in human health care. This collection of gripping historical narratives covers a range of fascinating outbreaks and public health challenges, from yellow fever and smallpox to AIDS and COVID-19. This new edition chronicles the ongoing story of the COVID-19 pandemic, highlighting the people, the pathogen, and the progress in the diagnostic laboratory and clinical settings that has touched every aspect of global health. The many photographs and rich biographical sketches of key figures, diagrams of diagnostic procedures, micrographs of virus-infected cells, timelines, and a new glossary of key terms make To Catch a Virus compelling reading. This book serves as an excellent resource for courses in virology, immunology, microbiology, and public health. As the world struggles with the ongoing pandemic of SARS-CoV-2/COVID-19, To Catch a Virus is an insightful and superbly told story that chronicles the incredible metamorphosis of diagnostic virology and the technological advances that now make it possible to quickly and accurately detect and monitor the many disease-causing viruses that plague humankind. A stimulating, informative, and absorbing read that is highly recommended. —Richard L. Hodinka, PhD, Professor Emeritus, Perelman School of Medicine at the University of Pennsylvania; former Director, Clinical Virology Laboratory, Children’s Hospital of Philadelphia To Catch a Virus provides a beautifully written and compelling story of scientific discovery. It carefully traces the understanding of viral diseases from the turn of the twentieth century to the present. For general readers the authors provide timely and expert guidance to the extraordinary advances in diagnosis, surveillance, and

therapeutics that constitute the silver lining in the otherwise somber years of COVID-19. For anyone wishing to understand the challenges confronting virologists and their accomplishments to date, this work is the place to start. —Frank M. Snowden, PhD, Andrew Downey Orrick Professor Emeritus of History, Yale University; former Chair, Program in History of Science and History of Medicine, Yale University

The Enigma of Slow Viruses Pawel P. Liberski, 2012-12-06 Scrapie, a naturally occurring neurodegenerative disease of sheep and sometimes goats, is a prototypic disease for the whole group of the subacute spongiform virus encephalopathies. Kuru was the first human disease of this type to be discovered in 1957 by Gajdusek and Zigas, and its discovery opened the whole field in the human biomedical sciences by the very realization of the fact that viruses may induce disease months or even decades after infections, and that these slow virus diseases are more compatible with classical degenerations of the nervous system than with inflammatory disorders of the brain. More than a quarter of a century since discovery of Kuru, and more than half a century following the first transmission of scrapie, the very nature of the infectious virus remains unknown. This comprehensive review covers all aspects of slow unconventional virus infections known today. It includes numerous historical data, biochemistry and molecular biology of the prion protein and its gene, the role of genetics and mutations within PrP gene, spreading and targeting of the virus, biochemistry and neurochemistry of the alterations of different neurotransmitter system and neuropathology. More than 1000 references are listed and critically analyzed; the reader can find references to all experiments and laboratory findings which has ever been done in this field. Furthermore, the book offers different view on the basic problems as for example, the nature of the scrapie agent.

Cyrus the Virus D. J. Chakraborty, 2021-04-01 The character Cyrus the Virus was created in 1979 when the author was nine-years-old and welcomed a new baby brother. Always fond of cleanliness, she was especially careful to keep her two brothers and the family home disinfected and deodorized. In science class, she learned that a dirty environment breeds disease, especially viruses; what better name for a virus than Cyrus? The responsible big sister was keen to make sure her baby brother, five-year-old brother, and all their friends kept clean and safe from foul, fetid Cyrus the Virus. After two or three patient years, the author's mother told her, "Enough of your Cyrus the Virus stories! It is not nice to frighten your brothers and friends." After an intermission, Cyrus the Virus was reborn in 1991 when the author became a mother welcoming her own baby boy. She had never abandoned her love for cleanliness and was enthusiastic to keep her son, her two brothers, and the family home superbly sanitized. Once again, two or three patient years elapsed. Her mother again said, "Enough already with your Cyrus the Virus stories! What kind of mother frightens her own child?" A milder version of Cyrus the Virus came back to life in 2018 as the author recovered from influenza. Enthusiastic to keep her students healthy, she related the importance of proper hygiene and developed lessons plans and techniques to accomplish it. Those techniques are discussed and detailed in this book; washing hands is only one part of the clean procedure. Today, the deadly coronavirus has proliferated a pandemic beyond human imagination. Recommended for ages nine to adult, this book will hopefully inspire readers to utilize the cure they already possess. Happy, healthy reading!

Harnessing the Power of Viruses Borianna Marintcheva, 2017-11-13 Harnessing the Power of Viruses explores the application of scientific knowledge about viruses and their lives to solve practical challenges and further advance molecular sciences, medicine and agriculture. The book contains virus-based tools and approaches in the fields of: i) DNA manipulations in vitro and in vivo; ii) Protein expression and characterization; and iii) Virus- Host interactions as a platform for therapy and biocontrol are discussed. It steers away from traditional views of viruses and technology, focusing instead on viral molecules and molecular processes that enable science to better understand life and offer means for addressing complex biological phenomena that positively influence everyday life. The book is written at an intermediate level and is accessible to novices who are willing to acquire a basic level of understanding of key principles in molecular biology, but is also ideal for advanced readers interested in expanding their biological knowledge to include practical applications of molecular tools derived from viruses. Explores virus-based tools and approaches in DNA manipulation, protein expression and characterization and virus-host interactions Provides a dedicated focus on viral molecules and molecular processes that enable science to better understand life and address complex biological phenomena Includes an overview of modern technologies in biology that were developed using viral components/elements and knowledge about viral processes

The Life of a Virus Angela N. H. Creager, 2002 We normally think of viruses in terms of the devastating diseases they cause, from smallpox to AIDS. But in *The Life of a Virus*, Angela N. H. Creager introduces us to a plant virus that has taught us much of what we know about all viruses, including the lethal ones, and that also played a crucial role in the development of molecular biology. Focusing on the tobacco mosaic virus (TMV) research conducted in Nobel laureate Wendell Stanley's lab, Creager argues that TMV served as a model system for virology and molecular biology, much as the fruit fly and laboratory mouse have for genetics and cancer research. She examines how the experimental techniques and instruments Stanley and his colleagues developed for studying TMV were generalized not just to other labs working on TMV, but also to research on other diseases such as poliomyelitis and influenza and to studies of genes and cell organelles. The great success of research on TMV also helped justify increased spending on biomedical research in the postwar years (partly through the National Foundation for Infantile Paralysis's March of Dimes)—a funding priority that has continued to this day.

Virus Bioinformatics Dmitrij Frishman, Manja Marz, 2021-08-19 Viruses are the most numerous and deadliest biological entities on the planet, infecting all types of living organisms—from bacteria to human beings. The constantly expanding repertoire of experimental approaches available to study viruses includes both low-throughput techniques, such as imaging and 3D structure determination, and modern OMICS technologies, such as genome sequencing, ribosomal profiling, and RNA structure probing. Bioinformatics of viruses faces significant challenges due to their seemingly unlimited diversity, unusual lifestyle, great variety of replication strategies, compact genome organization, and rapid rate of evolution. At the same time, it also has the potential to deliver decisive clues for developing vaccines and medications against dangerous viral outbreaks, such as the recent coronavirus pandemics. *Virus Bioinformatics* reviews state-of-the-art bioinformatics algorithms and recent advances in data analysis in virology. **FEATURES** Contributions from leading international experts in the field Discusses open questions and urgent needs Covers a broad spectrum of topics, including evolution, structure, and function of viruses, including coronaviruses The book will be of great interest to computational biologists wishing to venture into the rapidly advancing field of virus bioinformatics as well as to virologists interested in acquiring basic bioinformatics skills to support their wet lab work.

The Viral Storm Nathan D. Wolfe, 2011-10-27 'Wolfe has an important story to tell and as a virologist at the forefront of pandemic forecasting, he is the perfect person to tell it' Guardian In *The Viral Storm* award-winning biologist Nathan Wolfe - known as 'the Indiana Jones of virus hunters' for his work in jungles and rain forests across the world - shows why we are so vulnerable to a global pandemic. *The Viral Storm* examines how viruses like HIV, swine flu, and bird flu have almost wiped us out in the past - and may do so in the future. It explores why modern life makes us so at risk to global pandemics, and what new technologies can do to prevent them. Wolfe's provocative vision may leave you feeling distinctly uncomfortable - but it will reveal exactly what it is we are up against. 'An excellent piece of scientific gothic, rich in descriptions of the threat we face from emerging viruses' Nature 'Part autobiography, part warning ... enthralling' BBC Focus 'Quietly terrifying ... It's hard not to feel a bit feverish at times while reading' Boston Globe 'The plague-ridden future imagined by this authoritative, measured, yet gripping book is extremely alarming' Sunday Times 'Nathan Wolfe is saving the world from near-inevitable pandemic ... a kick-ass book' Mary Roach, author of *Stiff* 'The world's most prominent virus hunter' New Yorker 'A good place to start preparing for what might come' New Humanist

The Rainbow Virus Dennis Meredith, 2013 It's the weirdest bioterrorism attack ever! A frightening epidemic of unknown viruses is turning people red, yellow, blue, chartreuse, emerald, pumpkin, fuschia. . . . An eccentric, brilliant biologist vanishes from a local biotech company. Is he the culprit? An unlikely team pursues the mystery: disgraced FBI agent Bobby Loudon and obsessive CDC disease detective Kathleen Shinohara. They race to find the bioterrorist, but they are thwarted by a shadowy, deadly network called the faction. Who is this group and what is their goal? Will Loudon's and Shinohara's worst fear be realized—that the colorful infections are prelude to an unstoppable virus that the bioterrorist will unleash to devastate the world? *The Rainbow Virus* is a breakneck science fiction adventure based on the looming potential of new biowarfare

technology to pose a global terrorist threat. It's also a witty commentary on the peculiar human tendency to judge people by their skin color. Author and veteran science writer Dennis Meredith has crafted this riveting tale drawing on his decades of experience working at leading research universities such as Caltech, MIT, Cornell and Duke. For more information on Dennis Meredith's novels, go to www.DennisMeredith.com.

Advances in Virus Research ,1996-12-12 Praise for the Series: This serial... is well known to virologists. It is a valuable aid in maintaining an overview of various facets of the rapidly expanding fields of virology... Timely, informative, and useful to student, teacher, and research scientist. --American Scientist A mandatory purchase for all types of comprehensive libraries, both public and university, as well as for those interested in or doing research in the field of virology. --Military Medicine Among the topics covered are: Virus-induced immunopathology Filoviruses Molecular characterization of pestiviruses Transactivation of cellular genes by hepatitis B virus proteins Principles of molecular organization, expression, and evolution of closteroviruses Primate T lymphotropic oncoretroviruses Replication of positive-stranded RNA viruses of plants and animals

Viruses and Human Disease Ellen G. Strauss,James H. Strauss,2007-09-21 Completely revised and updated, the new edition of this groundbreaking text integrates basic virology with pathophysiological conditions to examine the connection between virology and human disease. Most virology textbooks focus on the molecular biology involved without adequate reference to physiology. This text focuses on viruses that infect humans, domestic animals and vertebrates and is based on extensive course notes from James Strauss’ virology class at the California Institute of Technology taught for over 30 years. Expertly depicting in color the molecular structure and replication of each virus, it provides an excellent overview for students and professionals interested in viruses as agents of human disease. Includes over 30% new material - virtually all of the figures and tables have been redrawn to include the latest information and the text has been extensively rewritten to include the most up-to-date information Includes a new chapter on emerging and reemerging viral diseases such as avian flu, SARS, the spread of West Nile virus across America, and the continuing spread of Nipah virus in Southeast Asia Further reading sections at the end of each chapter make it easy find key references World maps depicting the current distribution of existing and newly emerging viruses are also incorporated into the text

Unconventional Agents and Unclassified Viruses O.-R. Kaaden,W. Eichhorn,C.-P. Czerny,2012-12-06 Among unconventional agents and unclassified viruses the contributions to this volume focused on prion-related diseases, with special emphasis on bovine spongiform encephalopathy and human spongiform encephalopathies, and Borna disease virus, an agent known since long time to be pathogenic for horses and sheep, which is now discussed as a potential pathogen for humans. Additionally, the volume contains articles about newly discovered viruses like porcine respiratory and reproductive syndrome virus and viruses that are classified only provisionally like African swine fever virus, hepatitis C and E viruses, or the arteriviruses.

Fields Virology: RNA Viruses Peter M. Howley,David M. Knipe,Sean Whelan,Eric O. Freed,2022-06-09 Now in four convenient volumes, Field’s Virology remains the most authoritative reference in this fast-changing field, providing definitive coverage of virology, including virus biology as well as replication and medical aspects of specific virus families. This volume of Field’s Virology: RNA Viruses, Seventh Edition covers the latest information on RNA viruses, how they cause disease, how they can cause epidemics and pandemics, new therapeutics and vaccine approaches, as provided in new or extensively revised chapters that reflect these advances in this dynamic field. Bundled with the eBook, which will be updated regularly as new information about each virus is available, this text serves as the authoritative, up-to-date reference book for virologists, infectious disease specialists, microbiologists, and physicians, as well as medical students pursuing a career in infectious diseases.

Embark on a transformative journey with is captivating work, Discover the Magic in **Virus** . This enlightening ebook, available for download in a convenient PDF format Download in PDF: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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