

## *Introduction To Modern Virology 2nd Ed*

This atlas presents 233 virus diagrams selected for their scientific content, clarity, originality, and historic, didactic, and aesthetic value. *Virus Life in Diagrams* assembles the many diagrams of viral life cycles, particle assembly, and strategies of nucleic acid replication that are scattered throughout the literature. The diagrams cover vertebrate,

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invertebrate, plant, bacterial, fungal, and protozoal viruses, viroids, and prions. They offer a dynamic illustration of the time course of viral life cycles not available in photographs. They also offer speculative elements that project the possible results of future research, as well as historical documentation that shows the development of virology. This valuable reference book for virologists, microbiologists, molecular biologists, geneticists, and students in these areas is the first atlas to compile

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illustrations of viral morphogenesis in one complete source.

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program

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enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

The widespread presence and activity of micro-organisms makes it impossible to study life sciences without some

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understanding of microorganisms. Human Microbiology provides a concise review of the biology of the three important groups of micro-organisms that infect humans: bacteria, viruses and fungi. Divided into two parts, it summarises the key features that characterise the physiology of microorganisms e.g. structure and function, growth and division, microbial death and the principles of taxonomy, and examines the common themes that are found in micro-organisms that cause disease in man, the transmission, epidemiology and

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pathogenicity of microbial diseases. With the overwhelming volume of information published on individual species of bacteria, viruses and fungi, Human Microbiology emphasises the important concepts and themes that occur in the organisms that are pathogenic to humans. The conventional approach to studying medical microbiology tends to result in exhaustive lists of microbes arranged by genus and their associated diseases. To promote understanding of the principles of medical microbiology and avoid memory

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lessons, the important concepts are discussed with reference to key examples.

Basic Virology

An Illustrated Colour Text

Virus Life in Diagrams

Viral Genetics and Biotechnological Applications

*This book is a collection of chapters dealing with examples of RNA and DNA viruses, and issues such as how these gene packages have learnt to take advantage of their hosts, molecular recognition events that hosts may use to counterattack the viruses, and how*

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*researchers have developed strategies to use viruses or their parts as tools for different purposes.*

*Essential Microbiology is a comprehensive introductory text aimed at students taking a first course in the subject.*

*Covering all aspects of microbiology, it describes the structure and function of microbes before considering their place in the the living world. The second half of the book focuses on applied aspects such as genetic engineering, industrial microbiology and the control of microorganisms. Adopting a modern approach and with extensive use of clear comprehensive diagrams, Essential Microbiology explains key topics through the*



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*use of definition boxes and end of chapter questions. This book is invaluable for undergraduate students in the biological, food and health sciences taking a first course in Microbiology. comprehensive introduction covering all aspects of this exciting subject. includes numerous examples and applications from a wide range of fields. definition boxes, key points and self-test questions enhance student understanding.*

*Virology is one of the most dynamic areas of clinical medicine. The new second edition of this essential reference has been extensively revised and updated to incorporate the latest developments and relevant*

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*citations. Covering pathogenesis, epidemiology, diagnosis, treatment, and prevention, Clinical Virology informs scientists and health care professionals about all the medically relevant aspects of this rapidly evolving field. Clinical Virology is divided into two major sections. The first section addresses infections and syndromes related to particular organ systems, as well as the fundamentals of modern medical virology, including immune responses and vaccinology, diagnostics, antivirals, and gene therapy. The second section provides agent-specific chapters that detail the virology, epidemiology, pathogenesis, clinical manifestations,*

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*laboratory diagnosis, and prevention and treatment of important human viral pathogens. Offering comprehensive, original coverage of the viruses that cause human disease, this is the definitive reference work on clinical virology. Key Features Common templates for the syndrome-specific and separately for the agent-specific chapters allow the reader to readily access material New chapters on TTV and zoonotic paramyxoviruses Covers molecular biology, pathogenesis, immunity, clinical manifestations, treatment, and prevention Contributors are all internationally recognized experts actively involved in*

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*their fields To see the complete table of contents click here*

*Comparative Plant Virology*

*The Encylopedia of Molecular Biology*

*Principles of Virology*

*Virology*

"Here, my previous edition of Viruses, Plagues, & History is updated to reflect both progress and disappointment since that publication. This edition describes newcomers to the range of human infections, specifically, plagues that play important roles in this 21st century. The first is Middle East Respiratory Syndrome (MERS), an infection related to Sudden Acute Respiratory Syndrome (SARS). SARS was

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the first new-found plague of this century. Zika virus, which is similar to yellow fever virus in being transmitted by mosquitos, is another of the recent scourges. Zika appearing for the first time in the Americas is associated with birth defects and a paralytic condition in adults. Lastly, illness due to hepatitis viruses were observed prominently during the second World War initially associated with blood transfusions and vaccine inoculations. Since then, hepatitis virus infections have afflicted millions of individuals, in some leading to an acute fulminating liver disease or more often to a life-long persistent infection. A subset of those infected has developed liver cancer. However, in a triumph of medical treatments for infectious diseases, pharmaceuticals have

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been developed whose use virtually eliminates such maladies. For example, Hepatitis C virus infection has been eliminated from almost all (>97%) of its victims. This incredible result was the by-product of basic research in virology as well as cell and molecular biology during which intelligent drugs were designed to block events in the hepatitis virus life-cycle"--

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-

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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. This is a concise, highly accessible introduction to medical virology, incorporating essential basic principles as well as a systematic review of viruses and viral diseases. It pays particular attention to developments in anti-viral therapy that are becoming increasingly effective in modern medicine. It is an ideal textbook for the information-overloaded student and an invaluable everyday companion for the busy professional who needs a good understanding of the current state of medical virology. In keeping with the highly successful format of other Illustrated Colour Texts,

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it presents the subject as a series of succinct 2 page 'learning units', using a superb collection of clear illustrations and clinical photographs, concise yet comprehensive text and key point boxes to aid quick access to information and examination preparation. So whether you are a medical student, junior doctor, medical scientist, trainee in infectious diseases or student on another allied medical course, this book is here to make your life easier! It will also provide a very solid foundation for any who plan to delve deeper into this fascinating field. Part of the popular Illustrated Colour Text series Information presented in double page spreads for easy learning Highly illustrated with both full colour graphics and clinical photographs Each spread includes a key point box for exam



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preparation

Molecular Virology of Human Pathogenic Viruses

Current Catalog

An Information Profile

Principles of Molecular Virology

Designed for students learning about viruses for the first time at the undergraduate or graduate level, Fundamentals of Molecular Virology is presented in a style which relates to today's students and professors. This book is also a valuable, up-to-date source of information for graduate students, postdoctoral fellows and research scientists working with viruses. Chapters contributed by prominent virologists were edited to conform to a clear and accessible style. The text provides a thorough presentation of

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basic and contemporary concepts in virology for a student's first exposure to the field.

Principles of Molecular Virology, Seventh Edition provides an easily accessible introduction to modern virology, presenting principles in a clear and concise manner. The new edition provides the history of virology and the fundamentals of the molecular basis of how viruses work. It discusses the interactions which control the structure of virus particles, the ways viruses infect cells, how viruses replicate themselves, and the consequences and pathogenesis of virus infection for host organisms. This fully updated edition also reflects advances made in the field and includes new content on phage therapy, CRISPR as a phage defense / offense system, new ideas about evolution,

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and giant viruses. With the addition of ancillary resources, Principles of Molecular Virology, Seventh Edition is an essential foundational reference for academics, graduate students, and advance undergraduates in virology, molecular biology, and microbiology as well as researchers entering virology, infectious disease, and immunology research. Provides a conceptual approach to the principles of molecular virology, with important examples of new advances in virology Includes new concepts in this edition include coverage of emerging topics and new technologies in viral research like phage therapy, CRISPR as a phage defense / offense system, new ideas about evolution, and giant viruses Contains updated learning outcomes and further reading for each chapter Supported by online resources for

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students and instructors

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

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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

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resource for molecular biologists and plant virologists alike.

National Library of Medicine Current Catalog

Volume 6:

Viruses: A Very Short Introduction

Cumulative listing

First multi-year cumulation covers six years: 1965-70.

Focuses on the nature and history of viruses and viral diseases. The methods of studying and testing them, and their classifications.

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

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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.

101 Incredible Microbes from Coronavirus to Zika

Introduction to Modern Virology

Introduction to Virology

Human Microbiology

BIOS Instant Notes in Microbiology, Fourth Edition, is

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the perfect text for undergraduates looking for a concise introduction to the subject, or a study guide to use before examinations. Each topic begins with a summary of essential facts-an ideal revision checklist-followed by a description of the subject that focuses on core information, with cle

Virology is a clear and accessible introduction to this fast moving field, providing a comprehensive resource enabling students to understand the key concepts surrounding this exciting subject. The authors have produced a text that stimulates and encourages the student through the extensive use of clear, colour-coded diagrams.



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Taking a modern approach to the subject, the relevance of virology to everyday life is clearly emphasised and discussion on emerging viruses, cancer, vaccines, anti-viral drugs gene vectors and pesticides is included. This title: Provides an introduction to the theories behind the origins of viruses and how they are evolving with discussion on emerging viruses Includes numerous diagrams with standard colour coding for different types of molecule such as DNA, messenger RNA, other virus RNA's proteins – all diagrams are carefully developed and clearly labelled to enhance student understanding Features self-contained descriptions of the complete

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replication cycles of a selection of viruses Introduces the relevance of virology to the modern world including the latest developments in the field - HIV, Foot and Mouth disease, Ebola, SARS and MMR Presents summary boxes, further reading and an associated website to include the latest developments Virology is an essential textbook for all undergraduate students of biology, microbiology and biomedical sciences taking courses in virology. It is also an invaluable resource for MSc level students who have previously done little or no virology and are looking for an accessible introduction to the subject.

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Principles of Virology, the leading virology textbook in use, is an extremely valuable and highly informative presentation of virology at the interface of modern cell biology and immunology. This text utilizes a uniquely rational approach by highlighting common principles and processes across all viruses. Using a set of representative viruses to illustrate the breadth of viral complexity, students are able to understand viral reproduction and pathogenesis and are equipped with the necessary tools for future encounters with new or understudied viruses. This fifth edition was updated to keep pace with the ever-changing field of virology. In addition to the beloved full-

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color illustrations, video interviews with leading scientists, movies, and links to exciting blogposts on relevant topics, this edition includes study questions and active learning puzzles in each chapter, as well as short descriptions regarding the key messages of references of special interest. Volume I: Molecular Biology focuses on the molecular processes of viral reproduction, from entry through release. Volume II: Pathogenesis and Control addresses the interplay between viruses and their host organisms, on both the micro- and macroscale, including chapters on public health, the immune response, vaccines and other antiviral strategies, viral evolution, and a brand

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new chapter on the therapeutic uses of viruses. These two volumes can be used for separate courses or together in a single course. Each includes a unique appendix, glossary, and links to internet resources. Principles of Virology, Fifth Edition, is ideal for teaching the strategies by which all viruses reproduce, spread within a host, and are maintained within populations. This edition carefully reflects the results of extensive vetting and feedback received from course instructors and students, making this renowned textbook even more appropriate for undergraduate and graduate courses in virology, microbiology, and infectious diseases.

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Medical Books and Serials in Print

Fundamentals of Molecular Virology, 2nd Edition

Virology E-Book

Microbiology

***The foundational textbook on the study of virology Basic Virology, 4th Edition cements this series' position as the leading introductory virology textbook in the world. It's easily read style, outstanding figures, and comprehensive coverage of fundamental topics in virology all account for its immense popularity. This undergraduate-accessible book covers all the foundational topics in virology, including: The***

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***basics of virology Virological techniques  
Molecular biology Pathogenesis of human viral  
disease The 4th edition includes new  
information on the SARS, MERS and COVID-19  
coronaviruses, hepatitis C virus, influenza virus,  
as well as HIV and Ebola. New virological  
techniques including bioinformatics and  
advances in viral therapies for human disease  
are also explored in-depth. The book also  
includes entirely new sections on  
metapneumoviruses, dengue virus, and the  
chikungunya virus.  
Explores the role of biochemical processes in  
the soil environment, particularly the activity of***

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***microorganisms, and the potential application of those processes to environmental biotechnology. The 11 papers also highlight the application of molecular biology and microbial genetics to soil biology a***

***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***



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***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***

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

***Clinical Virology***

***Topley and Wilson's Principles of Bacteriology, Virology, and Immunity: Virology***

***Introductory Microbiology***

***Past, Present, and Future***

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**Presents a basic and accessible introduction to the fascinating world of microbiology.**

**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**

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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 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

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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. This stunningly illustrated book provides a rare window into the amazing, varied, and often beautiful world of viruses. Contrary to popular belief, not all viruses are bad for you. In fact, several are beneficial

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**to their hosts, and many are crucial to the health of our planet. Virus offers an unprecedented look at 101 incredible microbes that infect all branches of life on Earth—from humans and other animals to insects, plants, fungi, and bacteria. Featuring hundreds of breathtaking color images throughout, this guide begins with a lively and informative introduction to virology. Here readers can learn about the history of this unique science, how viruses are named, how their genes work, how they copy and package themselves, how they interact with their hosts, how immune systems counteract viruses, and how viruses travel from host to host. The concise entries**

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**that follow highlight important or interesting facts about each virus. Learn about the geographic origins of dengue and why old tires and unused pots help the virus to spread. Read about Ebola, Zika, West Nile, Frog virus 3, the Tulip breaking virus, and many others—how they were discovered, what their hosts are, how they are transmitted, whether or not there is a vaccine, and much more. Each entry is easy to read and includes a graphic of the virus, and nearly every entry features a colorized image of the virus as seen through the microscope. Written by a leading authority, this handsomely illustrated guide reveals the unseen wonders of the microbial world. It will**

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**give you an entirely new appreciation for viruses.**

**Essential Microbiology**

**New Scientist**

**Cann's Principles of Molecular Virology**

**Current Issues in Molecular Virology**

*The Encyclopaedia of Molecular Biology is a truly unique work of reference. 6000 definitions cover the entire spectrum of molecular life science The complete one-volume guide to understanding the way molecular biology is transforming medicine and agriculture Long and short entries written by over 300 of the world's finest*



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*researchers For rapid research or detailed study ... this is the A to Z of the New Biology*

*Praised for its 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*

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*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*

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*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.*

*Principles of Molecular Virology, Second*

## Acces PDF Introduction To Modern Virology 2nd Ed

*Edition, provides an essential introduction to modern virology. Focusing on a molecular approach, this text presents the principles of virology in a clear and concise manner that gives students of biology or medicine a broad, comprehensive understanding of the subject. The text explores and explains the fundamental aspects of virology including structure of virus particles and genomes, virus replication, control of gene expression, virus pathogenesis (including AIDS), and detailed, up-to-date discussions of prion diseases. This new edition is expanded and has been completely revised and*

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*updated with many new figures and tables which complement the text. The summaries and new self-assessment questions at the end of each chapter provide excellent revision aids.*

*Key Features \* Structure of Virus Particles and Virus Genomes \* Virus replication \* Control of Gene Expression \* Virus Psthogenesis (Including AIDS) \* Detailed and up-to-date Discussion of Prion Diseases*

*Soil Biochemistry*

*The Encyclopedia of Physics*

*Viruses, Plagues, and History*

*An Illustrated Guide to 101 Incredible Microbes*

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*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

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*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*

*New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the*

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*context of society and culture.*

*Comparative Plant Virology provides a complete overview of our current knowledge of plant viruses, including background information on plant viruses and up-to-date aspects of virus biology and control. It deals mainly with concepts rather than detail. The focus will be on plant viruses but due to the changing environment of how virology is taught, comparisons will be drawn with viruses of other kingdoms, animals, fungi and bacteria. It has been written for students of plant virology, plant pathology, virology and microbiology who have no*



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*previous knowledge of plant viruses or of virology in general. Boxes highlight important information such as virus definition and taxonomy Includes profiles of 32 plant viruses that feature extensively in the text Full color throughout*

*Virus*

*BIOS Instant Notes in Microbiology*

*Plant Viruses: Evolution and Management*

*Principles and Applications*