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Topics in Virology Emerging Topics in Physical Virology Current Research Topics in Plant Virology Clinical Virology Basic Virology Emerging Topics in Physical Virology Bacterial Toxins and Selected Topics in Virology Bacterial toxins and selected topics in virology: proceedings of the 11th Current Topics in Clinical Virology Essential Human Virology Current Topics in Medical Virology Bacterial Toxins and Selected Topics in Virology Structural Virology Bacterial Toxins and Selected Topics in Virology Fenner's Veterinary Virology Influenza Virology BACTERIAL TOXINS AND SELECTED TOPICS IN VIROLOGY- PROCEEDINGS OF THE 11TH CONFERENCE OF CHARLES UNIVERSITY MEDICAL FACULTY. Bacterial Toxins and Selected Topics in Virology Bacterial Toxins and Selected Topics in Virology Encyclopedia of Virology Environmental Virology and Virus Ecology Fenner and White's Medical Virology Current Topics in Vector Research Applied Plant Virology Virology: Essays for the Living, the Dead, and the Small Things in Between Current Issues in Molecular Virology Current and Emerging Technologies for the Diagnosis of Microbial Infections Guide to Clinical and Diagnostic Virology Quasispecies: Concept and Implications for Virology Encyclopedia of Virology Bats and Viruses Current Topics in Medical Virology Plant Virology Physical Virology Plant Virology Diagnostic Virology Protocols Plant Virology Hepatitis C Virus: From Molecular Virology to Antiviral Therapy Topics in Tropical Virology Viral Pathogenesis

[Applied Plant Virology](#) Feb 27 2021 Applied Plant Virology: Advances, Detection, and Antiviral Strategies provides an overview on recent developments and applications in the field of plant virology. The book begins with an introduction to important advances in plant virology, but then covers topics including techniques for assay detection and the diagnosis of plant viruses, the purification, isolation and characterization of plant viruses, the architecture of plant viruses, the replication of plant viruses, the physiology of virus-infected hosts, vectors of plant viruses, and the nomenclature and classification of plants. The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases. With contributions from an international collection of experts, this book presents a practical resource for plant virologists, plant pathologists, horticulturalists, agronomists, biotechnologists, academics and researchers interested in up-to-date technologies and information that advance the field of plant virology. Covers the detection, control and management of plant viruses Discusses antiviral strategies, along with mechanisms of systemic induced resistance to enhance the defense of plants against viruses Provides contributory chapters from expert plant virologists from different parts of the world

[Emerging Topics in Physical Virology](#) Jan 21 2023 Emerging Topics in Physical Virology is a state-of-the-art account of recent advances in the experimental analysis and modeling of structure, function and dynamics of viruses. It is the first interdisciplinary book that integrates a review of relevant experimental techniques, such as cryo-electron microscopy, atomic force microscopy and mass spectrometry with the latest results on the biophysical and mathematical modeling of viruses. The book comprehensively covers the structure and physical properties of the protein envelopes that encapsulate and hence protect the delicate viral genome, their assembly and disassembly, the organization of the viral genome, infection, evolution, as well as applications of viruses in Biomedical Nanotechnology. It is an essential primer for scientists working in all aspects of virology, including the increasing use of viruses and virus-like particles in bio- and nano-technology. Its review style makes it moreover suitable for non-experts as an introduction into this exciting research area.

[Influenza Virology](#) Nov 07 2021 World renowned scientists critically review the most important issues in this rapidly expanding field.

Bacterial Toxins and Selected Topics in Virology Jan 09 2022

Plant Virology Jan 17 2020 The seminal text *Plant Virology* is now in its fifth edition. It has been 10 years since the publication of the fourth edition, during which there has been an explosion of conceptual and factual advances. The fifth edition of *Plant Virology* updates and revises many details of the previous edition while retaining the important earlier results that constitute the field's conceptual foundation. Revamped art, along with fully updated references and increased focus on molecular biology, transgenic resistance, aphid transmission, and new, cutting-edge topics, bring the volume up to date and maintain its value as an essential reference for researchers and students in the field. Thumbnail sketches of each genera and family groups Genome maps of all genera for which they are known Genetic engineered resistance strategies for virus disease control Latest understanding of virus interactions with plants, including gene silencing Interactions between viruses and insect, fungal, and nematode vectors Contains over 300 full-color illustrations

Current Research Topics in Plant Virology Dec 20 2022 Topics covered in this book include RNA silencing and its suppression in plant virus infection, virus replication mechanisms, the association of cellular membranes with virus replication and movement, plant genetic resistance to viruses, viral cell-to-cell spread, long distance movement in plants, virus induced ER stress, virus diversity and evolution, virus-vector interactions, cross protection, geminiviruses, negative strand RNA viruses, viroids, and the diagnosis of plant viral diseases using next generation sequencing. This book was anticipated to help plant pathologists, scholars, professors, teachers and advanced students in the field with a comprehensive state-of-the-art knowledge of the subject.

BACTERIAL TOXINS AND SELECTED TOPICS IN VIROLOGY- PROCEEDINGS OF THE 11TH CONFERENCE OF CHARLES UNIVERSITY MEDICAL FACULTY. Oct 06 2021

Plant Virology May 21 2020 This volume discusses traditional and current techniques that are successfully used to diagnose plant viruses and study molecular plant-virus interactions. The chapters in this book cover topics such as in vivo detection of double-stranded RNA, developing rice mutant using CRISPR-Cas9-based technology, protein-protein interaction assays, purification and transfection of protoplasts, protocols for gene silencing, and transmission electron microscopy. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and practical, *Plant Virology: Methods and Protocols* is a valuable resource for plant pathologists, microbiologists, virologists, graduate students, and teachers who are interested in learning more about the developments in plant virology research.

Essential Human Virology May 13 2022 *Essential Human Virology* is written for the undergraduate level with case studies integrated into each chapter. The structure and classification of viruses will be covered, as well as virus transmission and virus replication strategies based upon type of viral nucleic acid. Several chapters will focus on notable and recognizable viruses and the diseases caused by them, including influenza, HIV, hepatitis viruses, poliovirus, herpesviruses, and emerging and dangerous viruses. Additionally, how viruses cause disease, or pathogenesis, will be highlighted during the discussion of each virus family, and a chapter on the immune response to viruses will be included. Further, research laboratory assays and viral diagnosis assays will be discussed, as will vaccines, anti-viral drugs, gene therapy, and the beneficial uses of viruses. By focusing on general virology principles, current and future technologies, familiar human viruses, and the effects of these viruses on humans, this textbook will provide a solid foundation in virology while keeping the interest of undergraduate students. Focuses on the human diseases and cellular pathology that viruses cause Highlights current and cutting-edge technology and associated issues Presents real case studies and current news highlights in each chapter Features dynamic illustrations, chapter assessment questions, key terms, and summary of concepts, as well as an instructor website with lecture slides, test bank, and recommended activities

Bacterial toxins and selected topics in virology: proceedings of the 11th Jul 15 2022

Current and Emerging Technologies for the Diagnosis of Microbial Infections Nov 26 2020

Current and Emerging Technologies in Microbial Diagnostics, the latest volume in the Methods in Microbiology series, provides comprehensive, cutting-edge reviews of current and emerging technologies in the field of clinical microbiology. The book features a wide variety of state-of-the-art methods and techniques for the diagnosis and management of microbial infections, with chapters authored by internationally renowned experts. This volume focuses on current techniques, such as MALDI-TOF mass spectrometry and molecular diagnostics, along with newly emerging technologies such as host-based diagnostics and next generation sequencing. Written by recognized leaders and experts in the field Provides a comprehensive and cutting-edge review of current and emerging technologies in the field of clinical microbiology, including discussions of current techniques such as MALDI-TOF mass spectrometry and molecular diagnostics Includes a broad range and breadth of techniques covered Presents discussions on newly emerging technologies such as host-based diagnostics and next generation sequencing

Hepatitis C Virus: From Molecular Virology to Antiviral Therapy Dec 16 2019 Hepatitis C virus (HCV), a major causative agent of chronic liver disease, is spread throughout the world and around 170 million people are persistently infected. In this volume, world-leading experts in the field of HCV research have compiled the most recent scientific advances to provide a comprehensive and very timely overview of the various facets of HCV. The book starts with a discussion of the possible origin of HCV and its spread among the human population. The focus of the subsequent chapters is on available cell culture and in vivo models before shifting to the molecular and cellular principles underlying the viral replication cycle. These chapters are complemented by insightful descriptions of the innate and adaptive immune responses to HCV as well as the virus-associated pathogenesis. Finally, the development of antiviral therapies, which is closely linked with progress in basic research, and the implementation of those therapies into present and future daily clinical practice are highlighted.

Topics in Tropical Virology Nov 14 2019 Diseases caused by viruses in animals, plants and humans remain a major economic factor in many tropical countries. Long established virus diseases such as rabies are still extremely serious health problems, Emerging diseases such as Lassa fever and Ebola in humans and geminiviruses in plants represent new threats with the potential to spread worldwide.

Structural Virology Feb 10 2022 Over the last ten years, much effort has been devoted to improving the biophysical techniques used in the study of viruses. This has resulted in the visualization of these large macromolecular assemblages at atomic level, thus providing the platform for functional interpretation and therapeutic design. Structural Virology covers a wide range of topics and is split into three sections. The first discusses the vast biophysical methodologies used in structural virology, including sample production and purification, confocal microscopy, mass spectrometry, negative-stain and cryo-electron microscopy, X-ray crystallography and nuclear magnetic resonance spectroscopy. The second discusses the role of virus capsid protein structures in determining the functional roles required for receptor recognition, cellular entry, capsid assembly, genome packaging and mechanisms of host immune system evasion. The last section discusses therapeutic strategies based on virus protein structures, including the design of antiviral drugs and the development of viral capsids as vehicles for foreign gene delivery. Each topic covered will begin with a review of the current literature followed by a more detailed discussion of experimental procedures, a step in the viral life cycle, or strategies for therapeutic development. With contributions from experts in the field of structural biology and virology this exceptional monograph will appeal to biomedical scientists involved in basic and /or applied research on viruses. It also provides up-to-date reference material for students entering the field of structural virology as well as scientists already familiar with the area.

Basic Virology Oct 18 2022 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 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.

Fenner and White's Medical Virology May 01 2021 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. 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

Guide to Clinical and Diagnostic Virology Oct 26 2020 The explosion in clinical testing has been especially rapid in virology, where emerging viruses and growing numbers of viral infections are driving advances. The Guide to Clinical and Diagnostic Virology offers a digestible view of the breadth and depth of information related to clinical virology, providing a practical, working knowledge of the wide array of viruses that cause human disease. Introductory chapters cover the basics of clinical virology and laboratory diagnosis of infections, including virus structure, life cycle, transmission, taxonomy, specimen types and handling, and a comparison of assays used for detection. Detailed sections on important topics include Viral pathogens and their clinical presentations Diagnostic assays and techniques, including culture-based, immunological, and molecular Prevention and management of viral infections, with guidance on biosafety, vaccines, and antiviral therapies The regulatory environment for laboratory testing, including regulatory requirements and assay performance and interpretation Critical concepts are carefully curated and concisely summarized and presented with detailed illustrations that aid comprehension, along with important highlights and helpful hints. These features, plus question sections that reinforce significant ideas and key concepts, make this an invaluable text for anyone looking for an accessible route through clinical and diagnostic virology. Laboratory technologists, medical students, infectious disease and microbiology fellows, pathology residents, researchers, and everyone involved with viruses in the clinical setting will find the Guide to Clinical and Diagnostic Virology an excellent text as well as companion to clinical virology references.

Topics in Virology Feb 22 2023

Clinical Virology Nov 19 2022 The essential reference of clinical virology Virology is one of the most dynamic and rapidly changing fields of clinical medicine. For example, sequencing techniques from human specimens have identified numerous new members of several virus families, including new polyomaviruses, orthomyxoviruses, and bunyaviruses. Clinical Virology, Fourth Edition, has been extensively revised and updated to incorporate the latest developments and relevant research. Chapters written by internationally recognized experts cover novel viruses, pathogenesis, epidemiology, diagnosis, treatment, and prevention, organized into two major sections: Section 1 provides information regarding broad topics in virology, including immune responses, vaccinology, laboratory diagnosis, principles of antiviral therapy, and detailed considerations of important organ system manifestations and syndromes caused by viral infections. Section 2 provides overviews of

specific etiologic agents and discusses their biology, epidemiology, pathogenesis of disease causation, clinical manifestations, laboratory diagnosis, and management. Clinical Virology provides the critical information scientists and health care professionals require about all aspects of this rapidly evolving field.

Emerging Topics in Physical Virology Sep 17 2022 *Emerging Topics in Physical Virology* is a state-of-the-art account of recent advances in the experimental analysis and modeling of structure, function and dynamics of viruses. It is the first interdisciplinary book that integrates a review of relevant experimental techniques, such as cryo-electron microscopy, atomic force microscopy and mass spectrometry with the latest results on the biophysical and mathematical modeling of viruses. The book comprehensively covers the structure and physical properties of the protein envelopes that encapsulate and hence protect the delicate viral genome, their assembly and disassembly, the organization of the viral genome, infection, evolution, as well as applications of viruses in Biomedical Nanotechnology. It is an essential primer for scientists working in all aspects of virology, including the increasing use of viruses and virus-like particles in bio- and nano-technology. Its review style makes it moreover suitable for non-experts as an introduction into this exciting research area.

Current Topics in Clinical Virology Jun 14 2022

Current Topics in Medical Virology Apr 12 2022

Viral Pathogenesis Oct 14 2019 *Viral Pathogenesis: From Basics to Systems Biology, Third Edition*, has been thoroughly updated to cover topical advances in the evolving field of viral pathogenesis, while also providing the requisite classic foundational information for which it is recognized. The book provides key coverage of the newfound ability to profile molecular events on a system-wide scale, which has led to a deeper understanding of virus-host interactions, host signaling and molecular-interaction networks, and the role of host genetics in determining disease outcome. In addition, the content has been augmented with short chapters on seminal breakthroughs and profiles of their progenitors, as well as short commentaries on important or controversial issues in the field. Thus, the reader will be given a view of virology research with perspectives on issues such as biomedical ethics, public health policy, and human health. In summary, the third edition will give the student a sense of the exciting new perspectives on viral pathogenesis that have been provided by recent developments in genomics, computation, modeling, and systems biology. Covers all aspects of viral infection, including viral entry, replication, and release, as well as innate and adaptive immunity and viral pathogenesis Provides a fresh perspective on the approaches used to understand how viruses cause disease Features molecular profiling techniques, whole genome sequencing, and innovative computational methods Highlights the use of contemporary approaches and the insights they provide to the field

Bacterial Toxins and Selected Topics in Virology Aug 04 2021

Bats and Viruses Jul 23 2020 An invaluable reference source for everyone working on bat-borne viruses.

Bacterial Toxins and Selected Topics in Virology Sep 05 2021

Virology: Essays for the Living, the Dead, and the Small Things in Between Jan 29 2021 Named a Most Anticipated Book of 2022 by Literary Hub A leading microbiologist tackles the scientific and sociopolitical impact of viruses in twelve striking essays. Invisible in the food we eat, the people we kiss, and inside our own bodies, viruses flourish—with the power to shape not only our health, but our social, political, and economic systems. Drawing on his expertise in microbiology, Joseph Osmundson brings readers under the microscope to understand the structure and mechanics of viruses and to examine how viruses like HIV and COVID-19 have redefined daily life. Osmundson's buoyant prose builds on the work of the activists and thinkers at the forefront of the HIV/AIDS crisis and critical scholars like José Esteban Muñoz to navigate the intricacies of risk reduction, draw parallels between queer theory and hard science, and define what it really means to “go viral.” This dazzling multidisciplinary collection offers novel insights on illness, sex, and collective responsibility. *Virology* is a critical warning, a necessary reflection, and a call for a better future.

Encyclopedia of Virology Jul 03 2021 *Encyclopedia of Virology, Fourth Edition*, builds on the solid

foundation laid by the previous editions, expanding its reach with new and timely topics. In five volumes, the work provides comprehensive coverage of the whole virosphere, making this a unique resource. Content explores viruses present in the environment and the pathogenic viruses of humans, animals, plants and microorganisms. Key areas and concepts concerning virus classification, structure, epidemiology, pathogenesis, diagnosis, treatment and prevention are discussed, guiding the reader through chapters that are presented at an accessible level, and include further readings for those needing more specific information. More than ever now, with the Covid19 pandemic, we are seeing the huge impact viruses have on our life and society. This encyclopedia is a must-have resource for scientists and practitioners, and a great source of information for the wider public. Offers students and researchers a one-stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field, with a range of different expertise, thus ensuring a high-quality standard

Bacterial Toxins and Selected Topics in Virology Mar 11 2022

Plant Virology Mar 19 2020 This volume discusses traditional and current techniques that are successfully used to diagnose plant viruses and study molecular plant-virus interactions. The chapters in this book cover topics such as in vivo detection of double-stranded RNA, developing rice mutant using CRISPR-Cas9-based technology, protein-protein interaction assays, purification and transfection of protoplasts, protocols for gene silencing, and transmission electron microscopy. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and practical, *Plant Virology: Methods and Protocols* is a valuable resource for plant pathologists, microbiologists, virologists, graduate students, and teachers who are interested in learning more about the developments in plant virology research. .

Encyclopedia of Virology Aug 24 2020 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 viruses

Current Issues in Molecular Virology Dec 28 2020 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 researchers have developed strategies to use viruses or their parts as tools for different purposes.

Current Topics in Vector Research Mar 31 2021 Vector transmission of pathogens affecting human, animal, and plant health continues to plague mankind both in industrialized and Third World countries. The diseases caused by these pathogens cost billions of dollars annually in medical expenses and lost productivity. Some cause widespread of food-and fiber-producing plants and animals, whereas others destruction present direct and immediate threats to human life and further development in Third World countries. During the past 15 years or so, we have witnessed an explosive increase in interest in how vectors acquire, carry, and subsequently inoculate disease agents to human, animal, and plant hosts. This interest transcends the boundaries of anyone discipline and involves researchers from such varied fields as human and veterinary medicine, entomology, plant pathology, virology, physiology, microbiology, parasitology, biochemistry, molecular biology, genetic engineering, ultrastructure, biophysics, biosystematics, biogeography, ecology, behavioral sciences, and others. Accompanying and perhaps generating this renewed interest is the realization that fundamental knowledge of pathogen-vector-host interrelationships is a first and necessary step in our quest for efficient, safe methods of disease control.

Environmental Virology and Virus Ecology Jun 02 2021 Environmental Virology, Volume 101, the latest in the Advances in Virus Research series, contains new, informative updates on the topic. First published in 1953, this series covers a diverse range of in-depth reviews, providing a valuable overview of the current field of virology. Updates to this release include sections on the host landscape and vector behavior, key determinants of plant virus evolution and emergence, plant virome analysis using spatial metagenomics, host range evolution in generalist viruses, the influence of environment, water-mediated spread and transmission of viruses, viruses transmitted by means other than insect vectors, and more. Contains contributions from leading authorities in the field of virology Informs and updates on all the latest developments in the field Features a diverse range of virology topics, including discussions of host landscape and vector behavior and viruses transmitted by means other than insect vectors

Diagnostic Virology Protocols Feb 16 2020 A collection of cutting-edge techniques for detecting most of the major viruses that afflict mankind, including influenza, hepatitis, herpes, polio, mumps, HIV, and many more. The techniques are well-tested, easily reproducible, and readily employ all the new technologies-PCR, RIA, ELISA, and latex-agglutination-that have revolutionized the field. These methods not only make it possible to do the necessary analysis in hours instead of days, but can also be automated in a laboratory having only low levels of biological containment. Frequently, the protocols for viruses causing human diseases can be adapted to similar viruses of veterinary importance. Through its state-of-the-art methods a physician can, for the first time, determine early in a viral infection which antiviral drug should be used and minimize the period of treatment to avoid unnecessary side effects.

Bacterial Toxins and Selected Topics in Virology Aug 16 2022

Fenner's Veterinary Virology Dec 08 2021 Fenner's Veterinary, Virology, Fourth Edition, is the long awaited new edition of Veterinary Virology, 3e, which was published in 1999. Fully revised and updated by the new author team, part I presents the fundamental principles of virology related to animal infection and disease, and part II addresses the clinical features, pathogenesis, diagnosis, epidemiology and prevention of individual diseases. New to this Edition New author team - one main author to ensure that the book reads like an authored book but with the benefit of using experts to contribute to specific topics Text has been refocused - part I has been condensed and where appropriate incorporated into part II to make it more user friendly The number of figures have been increased and are now in full color Fully revised and updated to include the latest information in the field of veterinary virology Beautifully illustrated color figures throughout Organized and current information provided by an expert team of authors

Quasispecies: Concept and Implications for Virology Sep 24 2020 Continuous genetic variation and selection of virus subpopulations in the course of RNA virus replications are intimately related to viral disease mechanisms. The central topics of this volume are the origins of the quasispecies concept, and the implications of quasispecies dynamics for viral populations.

Physical Virology Apr 19 2020 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.

Current Topics in Medical Virology Jun 21 2020

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