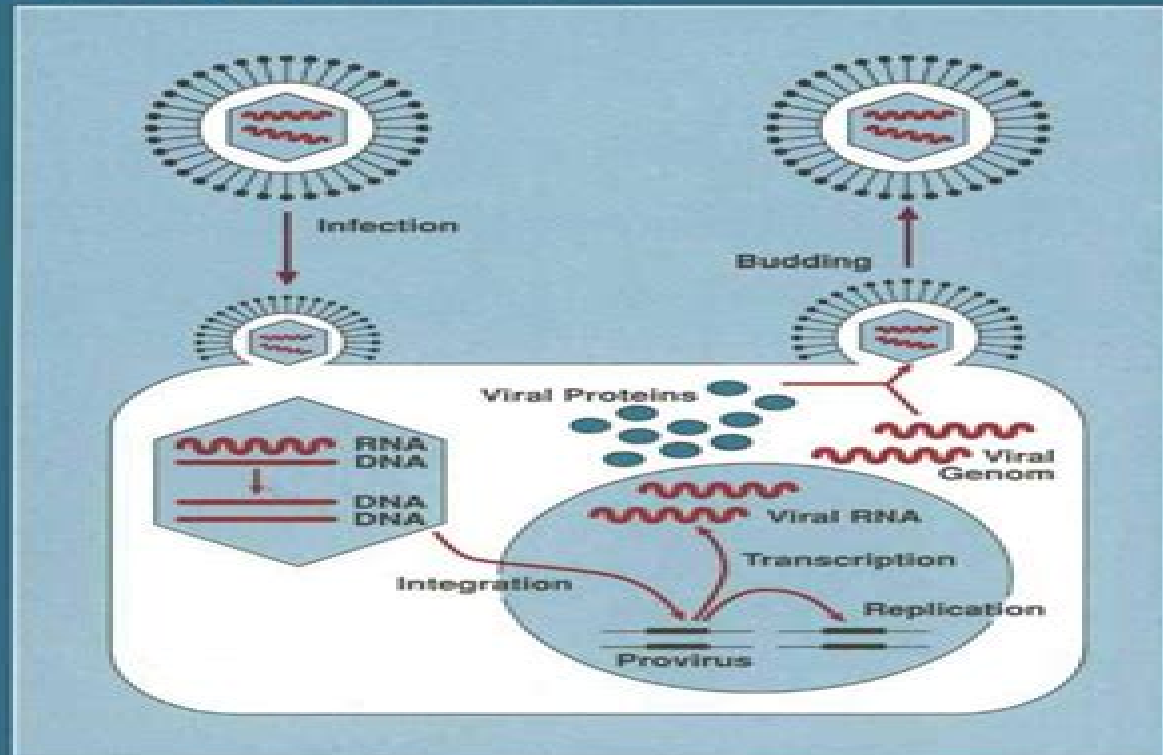


Current Topics in Microbiology and Immunology

Genetic Diversity of RNA Viruses

Edited by John J. Holland



Genetic Diversity Of Rna Viruses Current Topics In Microbiology And Immunology

Jane K. Setlow



Genetic Diversity Of Rna Viruses Current Topics In Microbiology And Immunology:

Genetic Diversity of RNA Viruses John J. Holland, 2012-12-06 Many RNA viruses have been known for decades to be genetically and biologically quite variable. Some well known examples are influenza viruses, foot and mouth disease viruses and Newcastle disease virus. During the past decade it has become clear that most if not all RNA viruses, riboviruses and retroviruses, are much more mutable than was recognized previously and that this great mutability generates extremely complex populations consisting of indeterminate mixtures of related variants. Like mutant swarms or quasispecies populations. This is also true of DNA viruses such as hepatitis DNA genomes via RNA transcripts. B virus which replicates their that are reverse transcribed back to DNA. This hypermutability of RNA replicons provides great biological adaptability for RNA virus genomes. It also allows but does not necessitate RNA viruses so that they can undergo extremely rapid evolution of evolve over a million times more quickly than their eukaryotic DNA based hosts. The genetics of RNA replicons is so unusual and often counterintuitive that it has many important biological consequences which are neither readily apparent nor widely understood. Failure to understand the distinctive aspects of RNA genetics frequently generates confusion and controversy and can adversely impact vaccine and antiviral drug programs and other applications of medical virology. The 14 chapters in this volume describe advances in a number of significant areas of RNA virus genetics and evolution. Current Topics in Microbiology and Immunology, 2012-12-06 Current Catalog National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965-70 **Current Topics in Microbiology and Immunology** M. Cooper, P. H. Hofschneider, H. Koprowski, F. Melchers, R. Rott, H. G. Schweiger, P. K. Vogt, R. Zinkernagel, 2012-12-06 **Emerging Viruses** Stephen S. Morse, 1993 New epidemics such as AIDS and mad cow disease have dramatized the need to explore the factors underlying rapid viral evolution and emerging viruses. Now available in paperback this comprehensive book is the first to describe this multifaceted new field. The book places viral evolution and emergence in a historical context, describes the interaction of viruses with hosts and details the advances in molecular biology and epidemiology that have provided the tools necessary to track developing viral epidemics and to detect new viruses far more successfully than could be done in the recent past. Case histories and practical suggestions for the prevention of future epidemics are given. From reviews of the hardback: excellent examples of emerging virus diseases, an excellent training resource and should be required reading for all infectious disease and public health professionals. The Evolution and Emergence of RNA Viruses Edward C. Holmes, 2009-06-25 While the study of viral evolution has developed rapidly in the last 30 years little attention has been directed toward linking the mechanisms of viral evolution to the epidemiological outcomes of these processes. This book intends to fill this gap by considering the patterns and processes of viral evolution at all its spatial and temporal scales. **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1993 **Genetic Engineering** Jane K. Setlow, 2012-12-06 The current volume covers human gene therapy improving the nutritional value of maize.

restriction modification enzymes and eight other subjects DNA Vaccination/Genetic Vaccination Hilary Koprowski, David B. Weiner, 1997-12-11 Genetic DNA immunization represents a novel approach to vaccine and immune therapeutic development The direct injection of nucleic acid expression cassettes into a living host results in a limited number of its cells becoming factories for production of the introduced gene products This host inappropriate gene expression has important immunological consequences resulting in the specific immune activation of the host against the gene delivered antigen The recent demonstration by a number of laboratories that the induced immune responses are functional in experimental models against both specific infectious diseases and cancers is likely to have dramatic consequences for the development of a new generation of experimental vaccines and immune therapies This technology has the potential to enable the production of vaccines and immune based therapies that are not only effective immunologically but are accessible to the entire world rather than just to the most developed nations Vaccine Development Vaccination against pathogenic microorganisms represents one of the most important advances in the history of medicine Vaccines including those against polio measles mumps rubella hepatitis A hepatitis B pertussis and other diseases have dramatically improved and protected more human lives than any other avenue of modern medicine The vaccine against smallpox for example has been so successful that it is now widely believed that this malicious killer responsible for more deaths in the twentieth century than World Wars I and II combined has been removed from the face of the earth **Current Topics in Microbiology and Immunology** W. Henle, P. H. Hofschneider, P. Koldovský, H. Koprowski, O. Maaløe, F. Melchers, R. Rott, H. G. Schweiger, L. Syrupek, P. K. Vogt, 2012-12-06 Several discoveries are noteworthy for allowing us to probe the recesses of the virus infected cell and to search for cryptic viral genomes which might provide clues in our studies of cancer etiology or developmental biology One of the most notable was the discovery of reverse transcriptase This marked a momentous occasion in the history of molecular biology Not only did it provide insight into the mechanism of persistence of retroviruses but it also provided us with an enzyme that could synthesize a DNA copy of any RNA This DNA copy could then be used as a hybridization reagent to search for both complementary DNA and viral specific RNA Thus one could follow the course of any viral infection or probe in tumor cells for hidden viral genomes Second a great deal of credit must be given to the geneticists who isolated the various deletion mutants in the avian retrovirus system and thus provided us with the first means of isolating gene specific probes Finally the laboratories which have mapped the genome have provided us with the framework in which to ask very specific questions with our gene specific probes Recently numerous excellent reviews concerning various aspects of the retroviruses have appeared In this review I shall not even attempt to present a comprehensive review of retroviruses *Encyclopedia of Virology*, 2021-02-24 Encyclopedia of Virology Fourth Edition Five Volume Set 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 *Quasispecies: Concept and Implications for Virology* Esteban Domingo,2006-02-19 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 **Grapevine Viruses: Molecular Biology, Diagnostics and Management** Baozhong Meng,Giovanni P. Martelli,Deborah A. Golino,Marc Fuchs,2017-07-05 The domestication of grapes dates back five thousand years ago and has spread to nearly all continents In recent years grape acreage has increased dramatically in new regions including the United States of America Chile Asia China and India and Turkey A major limiting factor to the sustained production of premium grapes and wines is infections by viruses The advent of powerful molecular and metagenomics technologies such as molecular cloning and next generation sequencing allowed the discovery of new viruses from grapes To date grapevine is susceptible to 64 viruses that belong to highly diverse taxonomic groups The most damaging diseases include 1 infectious degeneration 2 leafroll disease complex and 3 rugose wood complex Recently two new disease syndromes have been recognized Syrah decline and red blotch Losses due to fanleaf degeneration are estimated at 1 billion annually in France alone Other diseases including leafroll rugose wood Syrah decline and red blotch can result in total crop loss several years post infection This situation is further exacerbated by mixed infections with multiple viruses and other biotic as well as adverse abiotic environmental conditions such as drought and winter damage causing even greater destruction The book builds upon the last handbook written over twenty years ago on the part of diagnostics and extensively expands its scope by inclusion of molecular biology aspects of select viruses that are widespread and economically most important This includes most current information on the biology transmission genome replication transcription subcellular localization as well as virus host interactions It also touches on several novel areas of scientific inquiry It also contains suggested directions for future research in the field of grapevine virology *Biomat 2005 - Proceedings Of The International Symposium On Mathematical And Computational Biology* Rubem P Mondaini,Rui Dilao,2006-04-25 This volume contains the contributions of the keynote speakers to the BIOMAT 2005 symposium as well as a collection of selected papers by pioneering researchers It provides a comprehensive review of the mathematical modeling

of cancer development Alzheimer's disease malaria and aneurysm development Various models for the immune system and epidemiological issues are analyzed and reviewed The book also explores protein structure prediction by optimization and combinatorial techniques Steiner trees The coverage includes bioinformatics issues regulation of gene expression evolution development DNA and array modeling and small world networks

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Readership Graduate students and researchers in biology mathematics and physics

Quasispecies: From Theory to Experimental Systems Esteban Domingo, Peter Schuster, 2016-03-18 This volume brings together recent developments in quasispecies theory extended to variable environments and practical applications in elucidating viral dynamics and treatment designs In particular the existence of an error threshold in rugged fitness landscapes has opened the way to a new antiviral strategy termed lethal mutagenesis which is now under intensive theoretical experimental and clinical investigation As such the book explains how an understanding of quasispecies dynamics within infected organisms has increased our knowledge of viral disease events From a clinical perspective population dynamics highlights important problems for viral disease control such as the selection of drug resistant mutants that often accompanies treatment failures and suggests means of increasing the effectiveness of antiviral treatments The book is intended for students and scientists interested in basic and applied aspects of biophysics chemistry biology evolution and medical virology

Principles and Practice of Clinical Virology Arie J. Zuckerman, 2009-03-12 Principles and Practice of Clinical Virology is the bible for all working in the field of clinical virology from the trainee to the expert because there's

always something new to learn As before the book provides a detailed account of the diagnosis and treatment of virus infections with a stronger emphasis on clinical expertise and management Each chapter deals with a single virus or group of viruses and is written by leading international experts in the field What s new in this edition Showcases the wealth of new knowledge acquired on virus infections and reflects the discovery of newly recognized emerging infections the improvement or development of new vaccines and an increasing repertoire of antiviral agents for treatment All chapters have been thoroughly revised and there are a number of new contributors joining the cadre of internationally recognized experts Includes a new chapter on vaccinology covering the principles relating to the development and use of vaccines generally which complements the specific vaccines described in the other chapters The two chapters on nosocomial infections have been enlarged and will be particularly useful for those having to advise on the management of hospital acquired infections Emphasizes the rapid accumulation of new information in such fields as retroviruses particularly HIV SARS hepatitis C and influenza including avian influenza

The CD4 Molecule Dan R. Littman, 2012-12-06 During the late 1970 s the application of hybridoma technology led to an explosion in the discovery and characterization of proteins expressed at the surface of hematopoietic cells The understanding of T lymphocyte biology benefited enormously from this advance and from newly developed techniques for obtaining clonal T cells Application of these methodologies resulted in the identification of the clonally restricted T cell antigen receptors TCRs and of a number of other molecules expressed more broadly on T cells Among these the CD4 and CD8 glycoproteins stood out because they were differentially expressed on distinct functional subsets of T lymphocytes Moreover blocking studies with monoclonal antibodies suggested a functional role for CD4 and CD8 in T cell responses to antigen Shortly thereafter it was shown that T helper cells were the primary targets for the human immunodeficiency virus HIV and that CD4 serves as the viral receptor on these cells These findings fueled an intense interest in CD4 during the last decade in the hope that understanding the molecular nature of the HIV CD4 interaction could hold the key to controlling AIDS

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Legacy, Pathogenic and Emerging Contaminants in the Environment Manish Kumar, Meththika Vithanage, Sanjeeb Mohapatra, Kishor Acharya, 2021-12-30 This is the time when legacy pathogenic and emerging contaminants must be talked about understood and dealt with together While the geogenic contamination of the groundwater is a well established phenomenon that is considered as legacy contaminants that risk people s health globally both pathogenic and emerging contaminants like various water borne pathogens and pharmaceutical personal care products PPCPs are becoming imperative for their acute and chronic toxic effects While contaminated groundwater consumption leads to skin pigmentation hyperkeratosis kidney damage cardiovascular disease and children s overall development poor sanitation related pathogenic microorganisms cause a significant number of child and prenatal deaths Simultaneously

antibiotic microbial resistance AMR is expected to kill 100 million people by 2050 However there are rare texts that combine aspects of all these three under a single book cover This book gives an understanding of the occurrence fate and transport of geogenic microbial and anthropogenic contaminants in the groundwater It covers not only the scientific and technical aspects but also environmental legal and policy aspects for contaminant management in the environment under the paradigm shift of COVID 19 This book is intended to bring the focus on the natural contaminants biotic or abiotic in the post COVID Anthropocene which is illustrating a significant alteration of systems and the subsequent downstream impacts owing to globalization This book has compiled global work on emergence mass flow partitioning and activation of geogenic emerging and pathogenic contaminants in various spheres of environment with special emphasis on soil sediment and aquatic systems for enhancing the understanding on their migration and evolution for the welfare of mankind

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