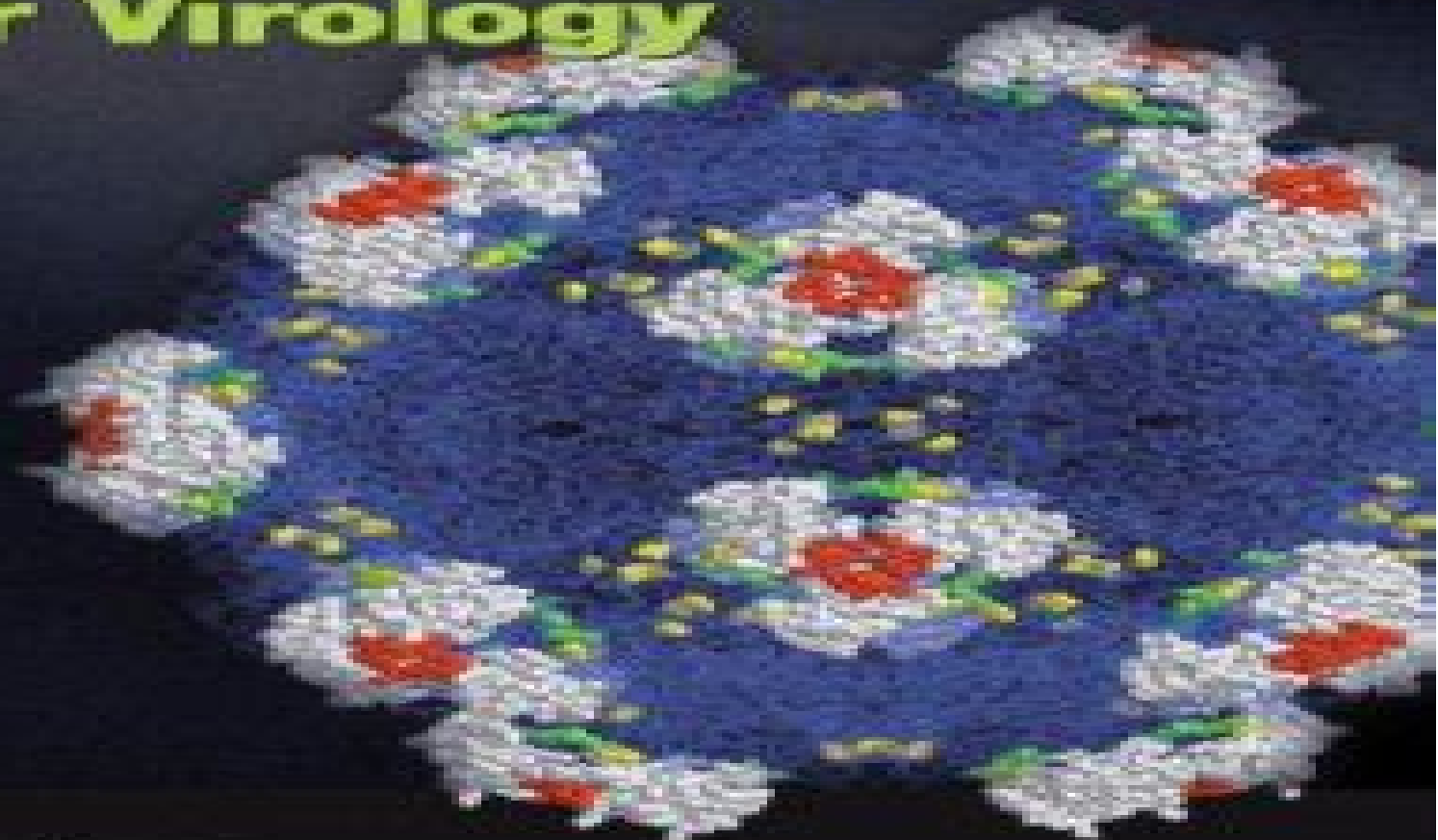


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Quasispecies: Concepts and Implications for Virology



 Springer

Quasispecies Concept And Implications For Virology

**Nigel J. Dimmock, Andrew J.
Easton, Keith N. Leppard**



Quasispecies Concept And Implications For Virology:

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

Quasispecies: Concept and Implications for Virology Esteban Domingo,2005-12-21 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

The Picornaviruses Ellie Ehrenfeld,Esteban Domingo,Raymond P. Roos,2010-09-15 A springboard for developing new approaches to understanding preventing and treating picornaviral diseases Examines the most current breakthroughs as well as the challenges that lie ahead in picornavirus research encapsulates current knowledge of the molecular biology evolution and pathogenesis of this large family of viruses and examines the diseases that these viruses cause and the latest vaccines and antiviral drugs to prevent and control those diseases Explores the structural and mechanistic bases of picornavirus replication highlighting new insights about the host cell interactions needed for virus growth and illustrates how the regular occurrence of mutations typical of viruses with RNA as genetic material generates the quasispecies dynamics that underlie viral fitness Focuses on picornaviruses that cause disease examining pathogenicity and innate and acquired immune responses against infection as well as the latest vaccine and antiviral drug strategies

Origin and Evolution of Viruses Esteban Domingo,Colin R. Parrish,John J. Holland,2008-06-23 New viral diseases are emerging continuously Viruses adapt to new environments at astounding rates Genetic variability of viruses jeopardizes vaccine efficacy For many viruses mutants resistant to antiviral agents or host immune responses arise readily for example with HIV and influenza These variations are all of utmost importance for human and animal health as they have prevented us from controlling these epidemic pathogens This book focuses on the mechanisms that viruses use to evolve survive and cause disease in their hosts Covering human animal plant and bacterial viruses it provides both the basic foundations for the evolutionary dynamics of viruses and specific examples of emerging diseases NEW methods to establish relationships among viruses and the mechanisms that affect virus evolution UNIQUE combines theoretical concepts in evolution with detailed analyses of the evolution of important virus groups SPECIFIC Bacterial plant animal and human viruses are compared regarding their interaction with their hosts

Evolutionary Biology - Concepts, Molecular and Morphological Evolution Pierre Pontarotti,2010-08-24 The annual Evolutionary Biology Meetings in Marseille aim to bring together leading scientists promoting an exchange of state of the art knowledge and the formation of inter group collaborations This book presents the most representative contributions to the 13th meeting which was held in September 2009 It comprises 21 chapters which are organized into the following three categories

Evolutionary Biology Concepts Genome Molecular Evolution Morphological Evolution Speciation This book offers an up to date overview of evolutionary biology concepts and their use in the biology of the 21st century

The Spanish Influenza Pandemic of 1918-1919 María Isabel Porras Gallo, Ryan A. Davis, 2014 The Spanish Influenza Pandemic of 1918 1919 sheds new light on what the World Health Organization described as the single most devastating infectious disease outbreak ever recorded by situating the Iberian Peninsula as the key point of connection both epidemiologically and discursively between Europe and the Americas The essays in this volume elucidate specific aspects of the pandemic that have received minimal attention until now including social control gender class religion national identity and military medicine s reactions to the pandemic and its relationship with civilian medicine all in the context of World War I As the authors point out however the experiences of 1918 19 remain persistently relevant to contemporary life particularly in view of events such as the 2009 H1N1 swine flu pandemic Contributors Mercedes Pascual Artiaga Catherine Belling Josep Bernabeu Mestre Ryan A Davis Esteban Domingo Magda Fahrni Hern n Feldman Pilar Le n Sanz Maria Lu sa Lima Maria deF tima Nunes Mar a Isabel Porras Gallo Anny Jackeline Torres Silveira Jos Manuel Sobral Paulo Silveira e Sousa Christiane Maria Cruz de Souza Mar a Isabel Porras Gallo is Professor of History of Science in the Medical Faculty of Ciudad Real at the University of Castile La Mancha Spain She is the author of Un reto para la sociedad madrile a la epidemia de gripe de 1918 1919 and co editor of El drama de la polio Un problema social y familiar en la Espa a franquista Ryan A Davis is Assistant Professor in the Department of Languages Literatures and Cultures at Illinois State University He is the author of The Spanish Flu Narrative and Cultural Identity in Spain 1918

Virus as Populations Esteban Domingo, 2015-09-25 Virus as Populations Composition Complexity Dynamics and Biological Implications explains fundamental concepts that arise from regarding viruses as complex populations when replicating in infected hosts Fundamental phenomena in virus behavior such as adaptation to changing environments capacity to produce disease probability to be transmitted or response to treatment depend on virus population numbers and in the variations of such population numbers Concepts such as quasispecies dynamics mutations rates viral fitness the effect of bottleneck events population numbers in virus transmission and disease emergence new antiviral strategies such as lethal mutagenesis and extensions of population heterogeneity to nonviral systems are included These main concepts of the book are framed in recent observations on general virus diversity derived from metagenomic studies and current views on the origin of viruses and the role of viruses in the evolution of the biosphere Features current views on the key steps in the origin of life and origins of viruses Includes examples relating ancestral features of viruses with their current adaptive capacity Explains complex phenomena in an organized and coherent fashion that is easy to comprehend and enjoyable to read Considers quasispecies as a framework to understand virus adaptability and disease processes

Introduction to Modern Virology Nigel J. Dimmock, Andrew J. Easton, Keith N. Leppard, 2016-03-07 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 two chapters one on innate immunity and the other on adaptive immunity reflecting the explosion in knowledge of viral interactions with these systems The coverage of vaccines and antivirals has been expanded and separated into two new chapters to reflect the importance of these approaches to prevention and treatment Virus infections in humans are considered in more detail with new chapters on viral hepatitis influenza vector borne diseases and exotic and emerging viral infections complementing an updated chapter on HIV The final section includes three new chapters on the broader aspects of the influence of viruses on our lives focussing on the economic impact of virus infections the ways we can use viruses in clinical and other spheres and the impact that viruses have on the planet and almost every aspect of our lives A good basic understanding of viruses is important for generalists and specialists alike The aim of this book is to make such understanding as accessible as possible allowing students across the biosciences spectrum to improve their knowledge of these fascinating entities

Viral Polymerases Satya Prakash Gupta,2018-10-29 Viral Polymerases Structures Functions and Roles as Antiviral Drug Targets presents in depth study information on the structure and functions of polymerases and their roles in the lifecycle of viruses and as drug targets Viral polymerases constitute a vital component in the lifecycle of many viruses such as human immunodeficiency virus HIV hepatitis viruses influenza virus and several others They are essentially required for the replication of viruses Thus the polymerases that can be found in viruses called viral polymerases represent favorable targets for the design and development of antiviral drugs Provides comprehensive state of the art coverage on virus infections the virus lifecycle and mechanisms of polymerase inhibition Analyzes the structure activity relationships of inhibitors of each viral polymerase Presents a consistent and comprehensive coverage of all aspects of viral polymerases including structure function and their role as antiviral drug targets

The Phylogenetic Handbook Philippe Lemey,Marco Salemi,Anne-Mieke Vandamme,2009-03-26 The Phylogenetic Handbook is a broad hands on guide to theory and practice of nucleotide and protein phylogenetic analysis This second edition includes six new chapters covering topics such as Bayesian inference tree topology testing and the impact of recombination on phylogenies as well as a detailed section on molecular adaptation The book has a stronger focus on hypothesis testing than the previous edition with more extensive discussions on recombination analysis detecting molecular adaptation and genealogy based population genetics Many chapters include elaborate practical sections which have been updated to introduce the reader to the most recent versions of sequence analysis and phylogeny software including BLAST FastA Clustal T coffee Muscle DAMBE Tree puzzle Phylip MEGA PAUP IQPNNI CONSEL ModelTest Prottest PAML HYPHY MrBayes BEAST LAMARC SplitsTree and RDP Many analysis tools are described by their original authors resulting in clear explanations that constitute an ideal teaching guide for advanced level undergraduate and graduate students

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

Virus Dynamics : Mathematical Principles of Immunology and Virology Martin Nowak,Robert M. May,2000-11-23 This groundbreaking book describes the emerging field of theoretical immunology in particular the use of mathematical models to describe the spread of infectious diseases within patients It reveals fascinating insights into the dynamics of viral and other infections and the interactions between infectious agents and immune responses Structured around the examples of HIV AIDS and hepatitis B Nowak and May show how mathematical models can help researchers to understand the detailed dynamics of infection and the effects of antiviral therapy Models are developed to describe the dynamics of drug resistance immune responses viral evolution and mutation and to optimise the design of therapy and vaccines We know down to the tiniest details the molecular structure of the human immunodeficiency virus HIV Yet despite this tremendous accomplishment and despite other remarkable advances in our understanding of individual viruses and cells of the immune system we still have no agreed understanding of the ultimate course and variability of the pathogenesis of AIDS Gaps in our understanding like these impede our efforts towards developing effective therapies and preventive vaccines Martin Nowak and Robert M May describe the emerging field of theoretical immunology in this accessible and well written text Using mathematical modelling techniques the authors set out their ideas about how populations of viruses and populations of immune system cells may interact in various circumstances and how infectious diseases spread within patients They explain how this approach to understanding infectious diseases can reveal insights into the dynamics of viral and other infections and the interactions between infectious agents and immune responses The book is structured around the examples of HIV AIDS and Hepatitis B virus although the approaches described will be more widely applicable The authors use mathematical tools to uncover the detailed dynamics of the infection and the effects of antiviral therapy Models are developed to describe the emergence of drug resistance and the dynamics of immune responses viral evolution and mutation The practical implications of this work

for optimisation of the design of therapy and vaccines are discussed The book concludes with a glance towards the future of this fascinating and potentially highly useful field of study an excellent introduction to a field that has the potential to advance substantially our understanding of the complex interplay between virus and host Nature Zoonoses Rolf Bauerfeind,Alexander Von Graevenitz,Peter Kimmig,Hans Gerd Schiefer,Tino Schwarz,Werner Slenczka,Horst Zahner,2015-12-01 Zoonoses are a persistent threat to the global human health Today more than 200 diseases occurring in humans and animals are known to be mutually transmitted Classical infectious diseases such as rabies plague and yellow fever have not been eradicated despite major efforts New zoonotic diseases are on the increase due global conditions such as overpopulation wars and food scarcity which facilitate human contact with rodents stray animals and their parasites In addition humans are unwittingly becoming accidental hosts and new links in an infectious chain by engaging in activities such as survival training which involves camping in open areas and consumption of raw or insufficiently cooked food Zoonotic infections cause a variety of symptoms that often do not provide clear evidence of a known disease Zoonoses Fourth Edition describes most occurring worldwide zoonosis and facilitates the identification diagnosis and treatment of zoonotic infections Written by a team of doctors medical microbiologists and veterinarians this completely revised edition covers all aspects of the epidemiology and prevention of zoonotic diseases through clear descriptions of various illnesses Specifically this fourth edition covers zoonosis caused by viruses bacteria fungi and parasites infections caused by animal bites infections and intoxications by animal foods Iatrogenic transmission of zoonotic pathogens Zoonoses is an indispensable reference for clinicians and laboratorians Principles of Virology Jane Flint,Vincent R. Racaniello,Glenn F. Rall,Theodora Hatzioannou,Anna Marie Skalka,2020-08-07 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 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 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

The Ecological Role of Micro-organisms in the Antarctic

Environment Susana Castro-Sowinski,2019-01-11 This book provides up to date multidisciplinary information regarding microbial physiological groups in terms of their role in the Antarctic ecology How do microorganisms shape the Antarctic environment The book presents a thorough overview of the most important physiological microbial groups or microbial systems that shape the Antarctic environment Each microbial model is described in terms of their physiology and metabolism and their role in the Antarctic environmental sustainability The individual chapters prepare readers for understanding the relevance of the microbial models from both an historical perspective and considering the latest developments This book will appeal to researchers and teachers interested in the Antarctic science but also to students who want to understand the role of microbes in the ecology of extreme environments

Desk Encyclopedia of General Virology Marc H.V. van

Regenmortel,Brian W.J. Mahy,2010-05-21 This volume derived from Encyclopedia of Virology provides an overview of the development of virology during the last ten years Entries detail the nature origin phylogeny and evolution of viruses It then moves into a summary of our understanding of the structure and assembly of virus particles and describes how this knowledge was obtained Genetic material of viruses and the different mechanisms used by viruses to infect and replicate in their host cells are highlighted The volume is rounded out with an overview of some major groups of viruses with particular attention being given to our current knowledge of their molecular biology The most comprehensive single volume source providing an overview of virology to non specialists Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help when preparing for lectures writing reports or drafting grant applications

The Evolution and Emergence of RNA Viruses Edward C. Holmes,2009-06-25

RNA viruses provide unique insights into the patterns and processes of evolutionary change in real time The study of viral evolution is especially topical given the growing awareness that emerging and re emerging diseases most of which are caused by RNA viruses represent a major threat to public health However while the study of viral evolution has developed rapidly in the last 30 years relatively little attention has been directed toward linking work on the mechanisms of viral evolution within cells or individual hosts to the epidemiological outcomes of these processes This novel book fills this gap by considering the patterns and processes of viral evolution across their entire range of spatial and temporal scales The Evolution and Emergence of RNA Viruses provides a comprehensive overview of RNA virus evolution with a particular focus on genomic and phylogenetic approaches This is the first book to link mechanisms of viral evolution with disease dynamics using high profile examples in emergence and evolution such as influenza HIV dengue fever and rabies It also reveals the

underlying evolutionary processes by which emerging viruses cross species boundaries and spread in new hosts **100**

Years of Virology Charles H. Calisher, M.C. Horzinek, 1999-08-03 Comprises papers of Dr Ursula Hoff including correspondence and photographs relating to her study of Charles Conder *Encyclopedia of Microbiology* Thomas M. Schmidt, 2019-09-11 Encyclopedia of Microbiology Fourth Edition Five Volume Set gathers both basic and applied dimensions in this dynamic field that includes virtually all environments on Earth This range attracts a growing number of cross disciplinary studies which the encyclopedia makes available to readers from diverse educational backgrounds The new edition builds on the solid foundation established in earlier versions adding new material that reflects recent advances in the field New focus areas include Animal and Plant Microbiomes and Global Impact of Microbes The thematic organization of the work allows users to focus on specific areas e g for didactical purposes while also browsing for topics in different areas Offers an up to date and authoritative resource that covers the entire field of microbiology from basic principles to applied technologies Provides an organic overview that is useful to academic teachers and scientists from different backgrounds Includes chapters that are enriched with figures and graphs and that can be easily consulted in isolation to find fundamental definitions and concepts **Plant Virus Evolution** Marilyn J. Roossinck, 2008-02-23 This book provides a comprehensive look at the field of plant virus evolution It is the first book ever published on the topic Individual chapters written by experts in the field cover plant virus ecology emerging viruses plant viruses that integrate into the host genome population biology evolutionary mechanisms and appropriate methods for analysis It covers RNA viruses DNA viruses pararetroviruses and viroids and presents a number of thought provoking ideas

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