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Retroviruses

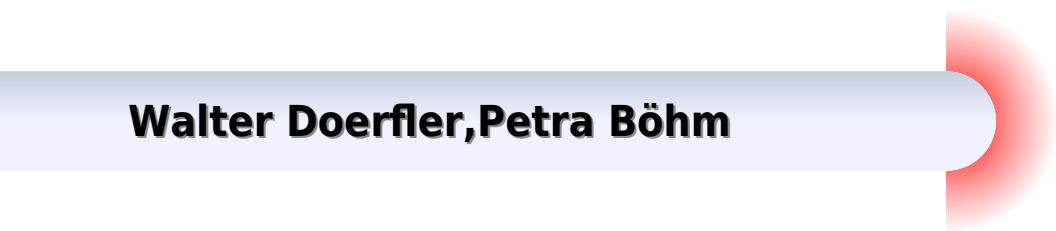
Strategies of Replication



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Retroviruses Strategies Of Replication Current Topics In Microbiology And Immunology Vol 157

Walter Doerfler, Petra Böhm



Retroviruses Strategies Of Replication Current Topics In Microbiology And Immunology Vol 157:

Morphogenesis and Maturation of Retroviruses Hans-Georg Kräusslich, 2012-12-06 Retroviruses arguably belong to the most fascinating of all viruses because of their unusual and highly efficient mode of replication involving reverse transcription and integration of the viral genome and a complex system of transcriptional and post transcriptional regulatory mechanisms The importance of retroviruses as human and animal pathogens has also enhanced scientific and medical interest in this diverse group of viruses and has spurred an intensive search for novel and improved antiviral agents More recently analysis of retroviral replication and in particular understanding the formation and composition of the virus particle has received additional attention because of the promise of retroviral vectors as vehicles for human somatic gene therapy Many recent advances have been made in our understanding of the molecular mechanisms governing assembly and release of infectious retrovirus particles This book attempts to summarize these recent developments and to provide an overview of our current knowledge on retrovirus particle formation The individual chapters of the book deal with specific steps in the pathway of retroviral morphogenesis and maturation starting at the time when the components of the virus have been synthesized within the infected cell and ending once the infectious virion has been released from the cell An introductory chapter provides a comparative description of the structure and morphology of various retroviruses Transacting Functions of Human Retroviruses Irvin S.Y. Chen, Hilary Koprowski, A. Srinivasan, P.K. Vogt, 2012-12-06 The coding domains of simple retrovirus genomes direct the synthesis of virion proteins Complex retroviral genomes generate in addition to virion proteins regulatory transacting proteins that are translated from multiple spliced messenger RNAs and fulfill important functions in the virus life cycle All human retroviruses have such complex genomes The transacting proteins of these pathogens are attractive targets for therapeutic intervention because they are viral specific are essential for efficient virus replication and may be mediators of viral pathogenicity In summarizing the current knowledge on the regulatory transacting proteins of human retroviruses this volume makes an important contribution toward the control of virus disease

Retroviruses John M. Coffin, Stephen H. Hughes, Harold Varmus, 1997 For over 25 years the study of retroviruses has underpinned much of what is known about information transfer in cells and the genetic and biochemical mechanisms that underlie cell growth and cancer induction Emergent diseases such as AIDS and adult T cell lymphoma have widened even further the community of investigators directly concerned with retroviruses a development that has highlighted the need for an integrated understanding of their biology and their unique association with host genomes This remarkable volume satisfies that need Written by a group of the field's most distinguished investigators rigorously edited to provide a seamless narrative and elegantly designed for clarity and readability this book is an instant classic that demands attention from scientists and physicians studying retroviruses and the disorders in which they play a role **Retroviruses** Ronald Swanstrom, Peter K. Vogt, 2012-12-06 This book gives a synthesis of current knowledge on retrovirology Each chapter deals

with a different step in the virus life cycle detailing the molecular aspects of virus replication The comparison of different retroviruses exemplifies variations Specific topics include the evolution of retrovirus genomes integration of the provirus viral DNA transcriptional and translational control of viral gene expression processing of viral proteins and packaging of virion RNA Data on HIV and HTLV 1 are covered as well as research on animal retrovirus systems *The Retroviridae* Jay A. Levy, 2013-06-29 In this second volume in the series *The Retroviridae* the readers are treated to up to date reviews on these viruses which are found in a variety of animal species The volume begins with important observations on the general features of retrovirus entry into cells as determined by the viral envelope glycoproteins and the cell surface receptors Chapter 1 Aspects of this virus cell interaction form the basis for the variety of biologic effects associated with this virus family A timely review of the oncogenic feline viruses is included next Chapter 2 These viruses along with the avian and murine retroviruses Volume 1 Chapters 6 and 7 have provided valuable insight into cancer induction in other animal species including humans Two other major groups of retroviruses the lentiviruses and the spuma viruses are introduced in the present volume Initially these groups along with oncoviruses were the three subfamilies in the Retroviridae This complex virus family has now been reclassified into seven separate genera Volume 1 Chapter 2 Equine infectious anemia virus is the prototype for a lentivirus Chapter 5 One of the first viruses discovered in nature 1904 it was only relatively recently recognized as a retrovirus Lentiviruses are associated primarily with immunologic disorders such as autoimmunity and AIDS Chapters 3 5 but their association with neurologic disease is also well established Chapters 4 and 5 and future volumes

The Molecular Repertoire of Adenoviruses III Walter Doerfler, Petra Böhm, 2012-12-06 For decades this virus system has served and continues to do so to pioneer investigations on the molecular biology biochemistry and genetics of mammalian cell systems This three volume work presents an up to date account of recent basic research in one of the most important experimental systems for biochemical cell biological genetic virological and epidemiological investigation in mammalian molecular biology In the first of the three volumes we present an overview of adenovirus research In the second volume we turn our attention to such topics as DNA replication recombination and integration and post transcriptional control This the third volume then looks at transformation and E1A adenovirus genetics pathogenesis and gene therapy *The Molecular Repertoire of Adenoviruses II* Walter Doerfler, Petra Böhm, 2012-12-06 For decades this virus system has served and continues to do so to pioneer investigations on the molecular biology biochemistry and genetics of mammalian cell systems This three volume work presents an up to date account of recent basic research in one of the most important experimental systems for biochemical cell biological genetic virological and epidemiological investigations in mammalian molecular biology In this the second of three volumes the attention is turned to such topics as DNA replication recombination and integration and post transcriptional control The chapters have been written by an international group of leading experts in their respective fields of interest ***The Molecular Repertoire of Adenoviruses I*** Walter Doerfler, Petra Böhm, 2012-12-06 For

decades this virus system has served and continues to do so to pioneer investigations on the molecular biology biochemistry and genetics of mammalian cell systems This three volume work presents an up to date account of recent basic research in one of the most important experimental systems for biochemical cell biological genetic virological and epidemiological investigations in mammalian molecular biology In this the first of the three volumes an overview of adenovirus research is presented with emphasis on the structure and assembly of adenoviruses viral infections and viral gene products The chapters have been written by an international group of leading experts in their respective fields of interest Current Topics in Microbiology and Immunology Barry T. Rouse, 1967 Although upstaged by the tragic appearance of the human immunodeficiency virus herpes simplex viruses HSV types 1 and 2 continue to be major human pathogens against which we lack acceptable vaccines or other means of immunological control The virus is large and complex coding for 70 or more proteins Although many mysteries remain to be unraveled our knowledge base regarding genomic organization gene expression and regulation pathogenesis and immune recognition of component parts is quite considerable Indeed meetings devoted entirely to herpesviruses are conspicuous by their frequency and excellent yet sometimes exclusive attendance The purpose of this volume is to compile in a single book a series of reviews by leading investigators that deal with various aspects of virus host interactions and which hopefully will provide clues as to how to best manage HSV from an immunobiological perspective Ultimately one anticipates that a full understanding of virus host interaction will lead to strategies useful for the prevention and control of HSV The state of current progress with conventional vaccines is presented as is a chapter on intracellular immunization This latter novel approach to virus infections comes at approximately the bicentenary of Jenner's introduction of a successful conventional immunization strategy **Pathways for Cytolysis** Gillian M. Griffiths, Jürg Tschopp, 2012-12-06 At first glance the destruction of a target cell by a killer cell seems to be a simple endeavor A closer look however reveals the complex mechanisms underlying this task Killer cells are able to specifically recognize altered or infected cells A transient contact with target cells has to be established to allow the delivery of lethal molecules or signals The killer cell then disengages from the damaged cell and moves away to kill other target cells After the eradication of the target cells the number or activity of activated killer cells has to be reduced to avoid nonspecific killing of innocent cells In 1992 Herman Eisen concluded in his introductory remarks in the most recent volume on lymphocyte cytotoxicity EISEN 1993 Given the immense amount of effort made in the past decade to understand these lytic mechanisms it seems surprising that a consensus about the principal mechanisms has not been reached Since that time advances made in the field of cell mediated cytotoxicity are so significant that our knowledge regarding the lytic mechanisms has been considerably augmented Much of this is due to studies with transfectants and mutants either naturally occurring or generated by gene targeting It is now clear that there are two predominant pathways which act hand in hand and lead to efficient target cell destruction

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