

R. Swanstrom · P. K. Vogt (Editors)

Retroviruses

Strategies of Replication



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

Rosina Ehmann



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 **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

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

Human Pathogenic Papillomaviruses Harald Zur Hausen, 2012-12-06 The etiologic involvement of specific human papillomavirus HPV types in cancer of the cervix and their role in a substantial proportion of other anogenital cancers and cancers of the oropharynx most prominently cancers of the tonsils and of the larynx label HPV as a prime target for the analysis of mechanisms leading to the development of malignant tumors in humans As in other viral infections linked to human cancers HPV infection is not sufficient for the induction of malignant growth It emerges however as the main factor introducing new genes into the latently infected cells whose function as oncogenes have become clearly established during the past few years The regulation of their expression by specific host cell proteins stimulated by intra and intercellular signals seems to represent a primary defense mechanism against the induction of unrestricted growth The failure of this host cell control system on the other hand by mutational changes affecting the host cell genome appears to predispose for malignant conversion This volume summarizes various aspects of HPV research and its relationship to human cancers and provides an overview of current topics in an exciting research field

Cytotoxic T-Lymphocytes in Human Viral and Malaria Infections Michael B.A. Oldstone, 2013-11-11 Cytotoxic T lymphocytes CTL control several viral infections in animals based on deletion and

reconstitution experiments with CTL clones and use of CD8 genetically deficient knock out mice In this volume data for the role that CTL play in human infectious diseases is presented As such this represents the first volume in which such information from several different viral and protozoan infections is brought together

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 contract 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 cytolysis 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

The Role of Nitric Oxide in Physiology and Pathophysiology Hilary Koprowski, Hiroshi Maeda, 2012-12-06 Nitric Oxide NO an endogenous free radical has been shown recently to mediate several important biological effects It plays a neuro transmitter like role in vascular endothelium a second messenger role in N methyl D aspartate NMDA responsive neurons in the central nervous system CNS a neurotoxic role after its release from these neurons and a cytotoxic role after its release by macrophages This volume reviews among other topics the basic chemistry and physical properties of S nitrosothiols RS NO and their biochemical mechanisms of action NO synthase isozymes NO synthase structure mechanisms of NO synthesis regulation of NOS expression and posttranslational modification and mechanisms involving NO of CNS s damage in virus infections

Gene Silencing in Higher Plants and Related Phenomena in Other Eukaryotes Peter Meyer, 2012-12-06 In recent years several different gene silencing phenomena have been discovered in plants The book summarizes the most recent data on gene silencing phenomena such as trans inactivation paramutation and co suppression Plant researchers will find this edition a valuable help in differentiating between a number of puzzling and partly contradictory gene silencing events Those not familiar with plant molecular biology are introduced into the relevant methods and scientific models In addition examples and models of gene silencing in filamentous fungi Drosophila and mammalian systems are presented By providing a comparative update on gene silencing effects in different eukaryotes this book should stimulate communication among scientists working in diverse areas of eukaryotic gene regulation

Borna Disease Hilary Koprowski, W. Ian Lipkin, 2012-12-06 Borna disease was first described

over 200 years ago in what is now Southeastern Germany as a fatal neurologic affliction of horses and was considered a curiosity for many decades The causative agent was unknown and the animal species infected in nature were limited to horses and sheep Today as described in this volume the host range has extended to all warm blooded animals the genes and proteins of the virus have been identified and many of the mechanisms responsible for behavioral disturbances are understood Serologic studies suggest that BDV or related agents are likely to play a role in human neuropsychiatric diseases

Neutralization of Animal Viruses Nigel J. Dimmock, 2012-12-06 Understanding neutralization is particularly relevant to an appreciation of the interaction between a virus and its antibody synthesizing host since it is likely that viruses and the antibody system have evolved in response to reciprocally imposed selective pressures Neutralization of viruses which only infect non antibody synthesizing hosts while of considerable interest from of points of view is de facto without any such evolutionary significance In this second category are viruses of plants invertebrates vertebrates below fish in the evolutionary scale which do not synthesize antibody and most bacteria Viruses of organisms parasitic on or commensal with antibody synthesizing vertebrates such as enteric bacteria protozoa or metazoan parasites will be in contact with antibody at some stage of their existence and arthropod borne viruses which have a higher vertebrate as second host are obviously bona fide members of the first category There is an urgent need to understand the principles by which antibodies inactivate virus infectivity since at present we are unable to rationally construct effective vaccines against new agents like the human immunodeficiency viruses or to improve existing vaccines The intention of this volume is to comprehensively review neutralization and where possible to construct a unifying theory which can be tested by experimentation

Adhesion in Leukocyte Homing and Differentiation Dominique Dunon, Charles R. Mackay, Beat A. Imhof, 2012-12-06 This volume of Current Topics in Microbiology and Immunology was planned in parallel with an EMBO workshop on cell cell Interactions in Leukocyte Homing and Differentiation held at the Basel Institute for Immunology in November 1992 and many of the workshop speakers have contributed to it Cell adhesion is one of the most dynamic fields of biological research and presented in this book is the current knowledge on the structure and function of the major families of cell adhesion molecules the integrins the selectins the immunoglobulin superfamily and CD44 Complex interactions between the members of these families mediate diverse adhesion functions including leukocyte leukocyte interactions lymphocyte homing inflammation and lymphocyte stromal cell interaction during hematopoiesis A great deal of emphasis is placed on the regulatory elements that control the expression and function of adhesion molecules Cytokines not only induce the expression of certain adhesion molecules but may also modify their functional status For instance the integrins exist in either an inactive nonfunctional form or an active functional form and a number of intracellular or extracellular stimuli modify integrin function This is particularly important during leukocyte binding to endothelium and transendothelial migration which proceeds through a cascade of adhesion events Although cell adhesion molecules play an important role in many processes this book concentrates on their

role within the immune system A number of chapters discuss the migration of lymphocytes between hematopoietic organs such as the thymus lymph nodes Peyer s patches and spleen *Simian Immunodeficiency Virus* Norman L. Letvin, Ronald C. Desrosiers, 2012-12-06 Interest in the lentivirus subfamily of retroviruses has greatly intensified due to the realization that HIV 1 and HIV 2 are members of this previously obscure group Related lentiviruses have now been isolated from sheep goats horses cattle cats monkeys and humans This issue of CTMI is devoted to the lentiviruses of nonhuman primates referred to as simian immunodeficiency viruses SIVs The SIVs provide valuable tools for our quest to understand and control the HIVs which are obviously important new human pathogens Included in this volume are discussions of the distribution and molecular phylogeny of the SIVs and their use as animal models for the study of AIDS pathogenesis and the chapters clearly illustrate how SIV models are contributing to our understanding of the ability of host immune responses to control infection at least temporarily and the ability of virus to evade these host immune defenses Virology & AIDS Abstracts ,1992

Chemical Abstracts ,1990

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