

RETROVIRAL PROTEASES

MATURATION AND MORPHOGENESIS

Edited by
LAURENCE H. PEARL

Retroviral Proteases

Laurence H. Pearl



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Retroviral Proteases Lawrence C. Kuo, Jules A. Shafer, 1994-09-22 Methods included in this volume apply to the expression and characterization of retroviral proteases and their inhibitor substrate design **Viral Proteases and Antiviral Protease Inhibitor Therapy** Uwe Lendeckel, Nigel M. Hooper, 2009-06-19 The 8th volume in the Proteases in Biology and Disease series focuses on the role of proteases in virus function and their potential as anti viral targets Viral infections are still difficult to threat and some remained life threatening diseases in spite of antiviral drug research over decades Proteases are still regarded as an Achilles heel of the pathogens and thus protease inhibitors may help to handle the known and the emerging viral threads The book discusses viral proteases of the most important pathogenic viruses responsible for severe diseases AIDS SARS Hepatitis Cytomegalovirus T cell lymphotropic virus Picornavirus This book focuses specifically on the viral proteases crucial prerequisites for viral entry into cells and viral replication Viral proteases represent an important pharmaceutical target The current stage of protease inhibitor development and therapy are summarised and discussed by experts in the field This volume represents a timely and valuable continuation of the Proteases in Biology and Disease series The reader will learn the potential for proteases as targets for effective anti virals This book will be a valuable source of information on viral proteases and provoke further research in this important field **Proteases of Retroviruses** Vladimír Kostka, 2019-07-22 No detailed description available for Proteases of Retroviruses **Aspartic Acid Proteases as Therapeutic Targets** Arun K. Ghosh, 2011-08-04 In this ground breaking practical reference the family of aspartic acid proteases is described from a drug developer s perspective The first part provides a general introduction to the family of aspartic acid proteases their physiological functions molecular structure and inhibition Parts two to five present various case studies of successful protease inhibitor drug design and development as well as current and potential uses of such inhibitors in pharmaceutical medicine covering the major therapeutic targets HIV 1 protease renin beta secretase gamma secretase plasmepsins and fungal proteases A ready reference aimed primarily at professionals in the pharmaceutical industry as well as for anyone studying proteases and their function **Retroviral Proteases** Laurence H. Pearl, 1990 This volume describes the state of the art of our understanding of the structure and function of retroviral proteases and their substrates the viral polyproteins described by the leading workers in the field The contributions range from detailed biochemical and structural characterisation of several retroviral proteases including that from HIV 1 through the analysis of the proteolytic processing of the viral polyproteins to the structure of the viral capsids formed by the action of the protease and is essential reading for anyone interested in the molecular biology of AIDS **Handbook of Proteolytic Enzymes** Alan J. Barrett, Neil D. Rawlings, J. Fred Woessner, 2012-10-30 Extensively revised and updated the new edition of the highly regarded Handbook of Proteolytic Enzymes is an essential reference for biochemists biotechnologists and molecular biologists Edited by world renowned experts in the field this comprehensive work provides detailed information on all known

proteolytic enzymes to date This two volume set unveils new developments on proteolytic enzymes which are being investigated in pharmaceutical research for such diseases as HIV Hepatitis C and the common cold Volume I covers aspartic and metallo peptidases while Volume II examines peptidases of cysteine serine threonine and unknown catalytic type A CD ROM accompanies the book containing fully searchable text specialised scissile bond searches 3 D color structures and much more The only comprehensive book on proteolytic enzymes Includes 671 chapters each written by experts in their field on proteolytic enzymes from all groups of living organisms and the viruses including those that are currently major targets of pharmaceutical research Accompanying CD ROM provides fully searchable text 2D structures of peptidases in color and links directly to PubMed and MEROPS databases Each chapter describes in detail the enzyme name its history activity and specificity structural chemistry preparation biological aspects and distinguishing features Over 1000 peptidases included

AIDS and Other Manifestations of HIV Infection Gary Wormser, 2004-02-18 Extensively revised and updated the new edition of AIDS and Other Manifestations of HIV Infection is an essential reference resource providing a comprehensive overview of the biological properties of this etiologic viral agent its clinicopathological manifestations the epidemiology of its infection and present and future therapeutic options Expanded section on clinical manifestations includes new chapters on cardiovascular renal and dermatologic manifestations of HIV infection Additional chapters on molecular diagnostic techniques the role of host genetic variation in HIV infection and its manifestations the discovery and development of new HIV medicines analysis of HIV dynamics using mathematical models toxicities of antiretroviral therapy HIV drug susceptibility testing practical therapeutics and the global impact of HIV and AIDS **Handbook of Proteolytic Enzymes, Volume 1** Alan J. Barrett, J. Fred Woessner, Neil D. Rawlings, 2012-12-02 Handbook of Proteolytic Enzymes Second Edition Volume 1 Aspartic and Metallo Peptidases is a compilation of numerous progressive research studies on proteolytic enzymes This edition is organized into two main sections encompassing 328 chapters This handbook is organized around a system for the classification of peptidases which is a hierarchical one built on the concepts of catalytic type clan family and peptidase The concept of catalytic type of a peptidase depends upon the chemical nature of the groups responsible for catalysis The recognized catalytic types are aspartic cysteine metallo serine threonine and the unclassified enzymes while clans and families are groups of homologous peptidases Homology at the level of a family of peptidases is shown by statistically significant relationship in amino acid sequence to a representative member called the type example or to another member of the family that has already been shown to be related to the type example Each chapter discusses the history activity specificity structural chemistry preparation and biological aspects of the enzyme This book will prove useful to enzyme chemists and researchers **Viral Infections and Treatment** Helga Rübsamen-Waigmann, Karl Deres, Guy Hewlett, Reinhold Welker, 2003-08-26 Examining the pathology and transmission of the most common viral diseases this reference compiles reviews by international specialists which detail breakthroughs in patient management diagnostics and

treatment of viral infections The text also describes specific therapeutic agents according to their mode of action and clinical applications as well as practical treatment recommendations and guidelines for improved patient care

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

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