

Protein Profile



Lysosomal Cysteine Proteinases

SECOND EDITION

**Heidrun Kirschke, Alan J. Barrett
and Neil D. Rawlings**

Lysosomal Cysteine Proteases

**Jianming Dong, Sackler School of
Graduate Biomedical Sciences**



Lysosomal Cysteine Proteases:

Lysosomal Cysteine Proteinases and Their Role in Visceral Yolk Sac Mediated Nutrition and Embryotoxicity

Jeffrey Lee Ambroso, 1994 *Role of Proteases in the Pathophysiology of Neurodegenerative Diseases* Abel Lajtha, Naren L. Banik, 2007-05-08

Researchers seeking problems that offer more hope of success often avoid subjects that seem to be difficult to approach experimentally or subjects for which experimental results are difficult to interpret. The breakdown part of protein turnover in vivo particularly in nervous tissue was such a subject in the past it was difficult to measure and difficult to explore the mechanisms involved. For factors that influence protein metabolism it was thought that protein content, function and distribution are controlled only by the synthetic mechanisms that can supply the needed specificity and response to stimuli. The role of breakdown was thought to be only a general metabolic digestion/elimination of excess polypeptides. We now know that the role of breakdown is much more complex; it has multiple functions, it is coupled to turnover and it can affect protein composition, function and synthesis. In addition to eliminating abnormal proteins, breakdown has many modulatory functions: it serves to activate and inactivate enzymes, modulate membrane function, alter receptor channel properties, affect transcription and cell cycle, form active peptides and much more. The hydrolysis of peptide bonds often involves multiple steps, many enzymes and cycles such as ubiquitination and often requires the activity of enzyme complexes. Their activation, modification and inactivation can thus play an important role in biological functions with numerous families of proteases participating. The specific role of each remains to be elucidated.

[The Role of Lysosomal Cysteine Proteases in Endocytosis-mediated Retinal Degeneration](#) Ronald D. Kinser, 2012

Many retinal degenerative diseases result in blindness. The causes and clinical progression of these diseases are heterogeneous in nature. In many instances the genes involved are known yet the molecular mechanisms leading to blindness still require elucidation. Our lab utilizes the *norpA* mutant which undergoes light dependent retinal degeneration as a cell death model. Previous characterization of *norpA* has shown that rhodopsin and arrestin form stabilized complexes that are internalized into the cell body in response to light. Furthermore, this mass endocytosis of rhodopsin leads to its aggregation and accumulation in the late endosome. Accumulation of proteins in the endosomal system has been shown to lead to the permeabilization of endosomes and lysosomes, subsequently allowing translocation of the resident cathepsins to the cytosol. Cathepsins are lysosomal proteases that have been shown to mediate cell death when translocated from the endosomal system. In this thesis I describe the role of the lysosomal cysteine proteases in endocytosis mediated retinal degeneration. Using a combination of techniques in genetics, cell biology and biochemistry we show the specific involvement of the cathepsin L like protease CP1. Retinal degeneration in *norpA* retinas can be blocked by mutation of the *Cp1* gene or expression of the pan cysteine cathepsin inhibitor cystatin. Conversely, retinal degeneration can be accelerated in *norpA* retinas by overexpressing CP1. Interestingly, there is a decrease in CP1 immunofluorescence accompanied by a decrease in rhodopsin colocalization in the *norpA* mutant compared to wild type, suggesting a CP1

redistribution event in norpA retinas in response to light We also examined cathepsin involvement in a broader range of neurodegenerative disorders Although cathepsins were not implicated in many we discovered a role for cathepsins in the retinal degeneration observed in Drosophila trafficking mutants This suggests that cathepsins may be involved in a broader group of retinal degenerative disorders caused by defects in endosomal trafficking Lastly we identified a novel role for the Toll signaling pathway in endocytosis mediated cell death as mutations to Toll and dorsal block retinal degeneration These data represent a novel molecular pathway leading to cell death in Drosophila A potential link between Toll activation and cathepsins function is discussed

Mechanism for Selective Secretion of a Lysosomal Cysteine Protease/cathepsin L by Transformed Mouse Fibroblasts Jianming Dong, Sackler School of Graduate Biomedical Sciences, 1990

Biology of the Lysosome John B. Lloyd, Robert W. Mason, 2012-12-06 Volume 27 provides a comprehensive review of current knowledge of lysosome function in mammalian cells The book's unique contribution is its series of chapters that offers unparalleled treatment of the metabolic activities of lysosomes

Mechanisms of Protease Action Laszlo Polgar, 1989-01-31 A uniform treatment of the four protease groups and a discussion of the differences and similarities in their action is presented in this important new publication Serine cysteine aspartate and zinc proteases are systematically discussed by nomenclature evolution specificity and their regulatory role The chemistry of the peptide bond including the catalysis of ester and peptide hydrolyses is explained For each protease group the emphasis is placed on the structure and function Kinetics enzyme modifications isotope effects subzero temperature investigations nuclear magnetic resonance measurements X ray diffraction data binding of transition state analogs zymogen activation and site specific mutagenesis are combined to rationalize the action of proteases Both natural and synthetic inhibitors are considered because of their importance in mechanistic studies and drug design

Lysosomal Cysteine Proteases Heidrun Kirschke, Alan J. Barrett, Neil D. Rawlings, 1998 This volume examines each known cathepsin in turn examining gene structure and localization precursors purification activation and inhibition and hydrolysis of synthetic substrates polypeptides and proteins

Proteases in Apoptosis: Pathways, Protocols and Translational Advances Kakoli Bose, 2015-08-06 This book provides a comprehensive overview of the proteases involved in programmed cell death It presents a focused yet extensive discussion on proteolytic enzymes such as caspases HtrAs granzymes calpains and cathepsins as well as laboratory protocols related to enzymology and apoptosis Mouse model systems and non invasive imaging techniques in apoptosis related diseases such as cancer and neurodegeneration are also covered in this book While slowly unravelling the complexities of apoptosis in chapter one the next three chapters individually elaborate on different classes of proteases that play key roles in the initiation progression and execution of programmed cell death The last two chapters complete this discussion by describing different laboratory methodologies and therapeutic advances involving apoptotic proteases Protocols portraying in vitro and ex vivo colorimetric and fluorescence based enzyme kinetic studies as well as cell death assays are explained in the fifth chapter Preclinical in

vivo models and non invasive imaging in apoptosis to understand the complexities of disease progression and their contribution toward therapeutics is recounted in the last chapter The book spans topics related to both fundamental and applied biology It would therefore be equally appealing and informative to scientists working in the field of apoptosis and those who are investigating mechanisms of proteases and enzymes in general The protocols would certainly benefit both graduate and undergraduate students working in the related fields and provide useful leads for drug design to translational biologists involved in neurodegeneration and cancer research

Proteases: Structure and Function Klaudia Brix,Walter Stöcker,2014-01-21 Proteolysis is an irreversible posttranslational modification affecting each and every protein from its biosynthesis to its degradation Limited proteolysis regulates targeting and activity throughout the lifetime of proteins Balancing proteolysis is therefore crucial for physiological homeostasis Control mechanisms include proteolytic maturation of zymogens resulting in active proteases and the shut down of proteolysis by counteracting endogenous protease inhibitors Beyond the protein level proteolytic enzymes are involved in key decisions during development that determine life and death from single cells to adult individuals In particular we are becoming aware of the subtle role that proteases play in signaling events within proteolysis networks in which the enzymes act synergistically and form alliances in a web like fashion Proteases come in different flavors At least five families of mechanistically distinct enzymes and even more inhibitor families are known to date many family members are still to be studied in detail We have learned a lot about the diversity of the about 600 proteases in the human genome and begin to understand their physiological roles in the degradome However there are still many open questions regarding their actions in pathophysiology It is in this area where the development of small molecule inhibitors as therapeutic agents is extremely promising Approaching proteolysis as the most important irreversible post translational protein modification essentially requires an integrated effort of complementary research disciplines In fact proteolytic enzymes seem as diverse as the scientists working with these intriguing proteins This book reflects the efforts of many in this exciting field of research where team and network formations are essential to move ahead

Pathophysiological Aspects of Proteases in Cancer Sajal Chakraborti,Srijit Das,Cheorl-Ho Kim,2024-10-22

Pathophysiological Aspects of Proteases in Cancer provides a comprehensive overview of the multifaceted field of proteases in the cellular environment and focuses on the recently elucidated functions of complex proteolytic systems in physiology and pathophysiology The book both gives insights on the general aspects of the role of proteases in cancer their role as diagnostics and prognostics biomarkers their impact on chemoresistance and the future cutting edge technologies like cocktail therapies and Cyber Knife technology Given the breadth and depth of information covered in the respective contributions the book will be immensely useful for researchers in oncology and working to identify targets for drug development Multidisciplinary in scope the book bridges the gap between fundamental and translational research with applications in the biomedical and pharmaceutical industry making it a thought provoking read for basic and applied

scientists engaged in biomedical research Gives insight into the spectrum of proteases protease inhibitors and protease interactors involved at the cellular and molecular level in cancer development Gives a comprehensive overview of the role of proteases in modulating cellular metabolism and chemoresistance to better understand how proteases play in early to the end point in cancer development and metastasis Provides a multidisciplinary approach demonstrating the biochemical and signal transduction mechanisms associated with dysregulation of proteases leading to the manifestation of various diseases Highlights the roles and regulation of different types of proteases as well as their synthetic and endogenous inhibitors Bridges the gap between fundamental and translational research with applications in the biomedical and pharmaceutical industry

Proteases in Physiology and Pathology Sajal Chakraborti, Naranjan S. Dhalla, 2017-09-14 Using a multidisciplinary approach this book describes the biochemical mechanisms associated with dysregulation of proteases and the resulting pathophysiological consequences It highlights the role and regulation of different types of proteases as well as their synthetic and endogenous inhibitors The role of proteases was initially thought to be limited to general metabolic digestion However we now know that the role of protein breakdown is much more complex and proteases have multiple functions they are coupled to turnover and can affect protein composition function and synthesis In addition to eliminating abnormal proteins breakdown has many modulatory functions including activating and inactivating enzymes modulating membrane function altering receptor channel properties affecting transcription and cell cycles and forming active peptides The ubiquity of proteases in nature makes them an important target for drug development This in depth comprehensive is a valuable resource for researchers involved in identifying new targets for drug development With its multidisciplinary scope it bridges the gap between fundamental and translational research in the biomedical and pharmaceutical industries making it thought provoking reading for scientists in the field

Frontiers in Protein Structure, Function, and Dynamics Dev Bukhsh Singh, Timir Tripathi, 2020-07-02 This book discusses a broad range of basic and advanced topics in the field of protein structure function folding flexibility and dynamics Starting with a basic introduction to protein purification estimation storage and its effect on the protein structure function and dynamics it also discusses various experimental and computational structure determination approaches the importance of molecular interactions and water in protein stability folding and dynamics kinetic and thermodynamic parameters associated with protein ligand binding single molecule techniques and their applications in studying protein folding and aggregation protein quality control the role of amino acid sequence in protein aggregation muscarinic acetylcholine receptors antimuscarinic drugs and their clinical significances Further the book explains the current understanding on the therapeutic importance of the enzyme dopamine beta hydroxylase structural dynamics and motions in molecular motors role of cathepsins in controlling degradation of extracellular matrix during disease states and the important structure function relationship of iron binding proteins ferritins Overall the book is an important guide and a comprehensive resource for understanding protein structure function dynamics

and interaction **The Serpin Family** Margarethe Geiger,Felix Wahlmüller,Margareta Furtmüller,2015-11-13 The book provides an comprehensive overview on biology genetics and cellular functions of serpins serine protease inhibitors in health and disease With over 1000 members serpins are the most diverse family of protease inhibitors Latest groundbreaking research findings are presented and broaden the understanding on inhibitory and non inhibitory serpins not only in mammalian organisms but also in insects worms plants and viruses *Cell Apoptosis Research Advances* Carter R. Kettleworth,2007 Apoptosis is the regulated form of cell death It is a complex process defined by a set of characteristic morphological and biochemical features that involves the active participation of affected cells in a self destruction cascade This book presents research from around the world **Cumulated Index Medicus** ,1985 **Handbook of Muscle Foods Analysis** Leo M.L. Nollet,Fidel Toldra,2008-11-10 In today s nutrition conscious society there is a growing awareness among meat scientists and consumers about the importance of the essential amino acids vitamins and minerals found in muscle foods Handbook of Muscle Foods Analysis provides a comprehensive overview and description of the analytical techniques and application methodologies for t **Therapeutics of Natural and Synthetic Compounds in Protease-Induced Cancer** Sajal Chakraborti,2025-06-07 Therapeutics of Natural and Synthetic Compounds in Protease Induced Cancer presents a detailed discussion on the role of therapeutic and synthetic compounds in proteases and how they have been utilized to develop anticancer drugs covering both their structure and functions In addition the book explores the experimental and theoretical aspects of natural and synthetic compound design based on proteases Sections bridge the gap between fundamental and translational research with applications in the biomedical and pharmaceutical industry making it a thought provoking read for basic and applied scientists engaged in biomedical research In 23 chapters this book gives both insights on the general aspects of the role of natural and synthetic compounds in cancer therapeutics in cancer development treatment and their use in clinical trails Given the breadth and depth of information covered in the respective contributions the book will be immensely useful for researchers in oncology and for those working to identify targets for drug development Discusses natural and synthetics compounds as promising targets for future research since they play a pivotal role in cancer progression and response to chemotherapy treatment Provides insights into the multifaceted role of natural and synthetic compounds in regulating many important cell processes including cell proliferation apoptosis and autophagy Discusses the key role of compounds in cancer progression focusing on the status of natural chemically modified and synthetic inhibitors in various types of malignancies Encyclopedia of Cancer Manfred Schwab,2011-10-14 The merging of different basic and clinical science disciplines towards the common goal of fighting against cancer has long ago called for the establishment of a comprehensive reference source both as a tool to close the language gap between clinical and basic science investigators and as a platform of information for students and informed laymen alike The Encyclopedia of Cancer provides rapid access to focused information on all topics of cancer research for clinicians research scientists and advanced students Given the

overwhelming success of the Second Edition which appeared in 2009 and fast recent development in the different fields of cancer research it has been decided to publish a third fully revised and expanded edition following the principal concept of the first edition that has proven so successful Recent developments are seeing a dynamic progress in basic and clinical cancer science with translational research increasingly becoming a new paradigm in cancer research In particular new approaches to both Personalized Cancer Medicine and Targeted Therapies have made promising progress While the Second Edition featured scholarly contributions from approximately 1 000 scientists clinicians in four Volumes the Third Edition includes 1 300 contributors in 7 Volumes with an A Z format of approx 7000 entries It provides definitions of common acronyms and short definitions of related terms and processes in the form of keyword entries In addition there are detailed essays which provide comprehensive information on syndromes genes and molecules and processes and methods Each essay is well structured with extensive cross referencing between all entries In the Third Edition topical Essays present a comprehensive picture of major cancers such as Breast Cancer Colorectal Cancer Prostate Cancer Ovarian Cancer Renal Cancer Lung Cancer and Hematological Malignancies Leukemias and Lymphomas For each of these cancers different authoritative Essays are included that cover topics ranging from Pathology to Clinical Oncology and Targeted Therapies This new feature should meet the expectance that a wide community has towards a major cancer reference works The Encyclopedia of Cancer will be accessible both in print and online and this information source should be of value to both the clinical and basic scientific community as well as to the public

Cellular Peptidases in Immune Functions and Diseases 2 Jürgen Langner, Siegfried Ansorge, 2006-04-11 Of the many special roles played by proteolytic enzymes in immune reactions this book addresses different aspects of membrane peptidases signal transduction via ligation of membrane peptidases especially of dipeptidyl peptidase IV CD26 and aminopeptidase N CD13 and regulation of membrane peptidases in vivo and in vitro A number of newly discovered peptidases including cathepsin F W and X carboxypeptidase X attractin are described with special emphasis given to the role of peptidases in immune and defense reactions and in the pathogenesis of inflammatory and other diseases including rheumatoid arthritis pancreatitis multiple sclerosis Alzheimer s disease and tumours of various origins The focus on the involvement of a selection of proteolytic enzymes in immune reactions and diseases is a unique feature of this multifaceted work which combines biochemical immunological and clinical research reports with literary reviews of the field

Proteases as Targets for Therapy Klaus, von der Helm, Bruce D. Korant, John C. Cheronis, 2012-12-06 With contributions by numerous experts

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Lysosomal Cysteine Proteases Introduction

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