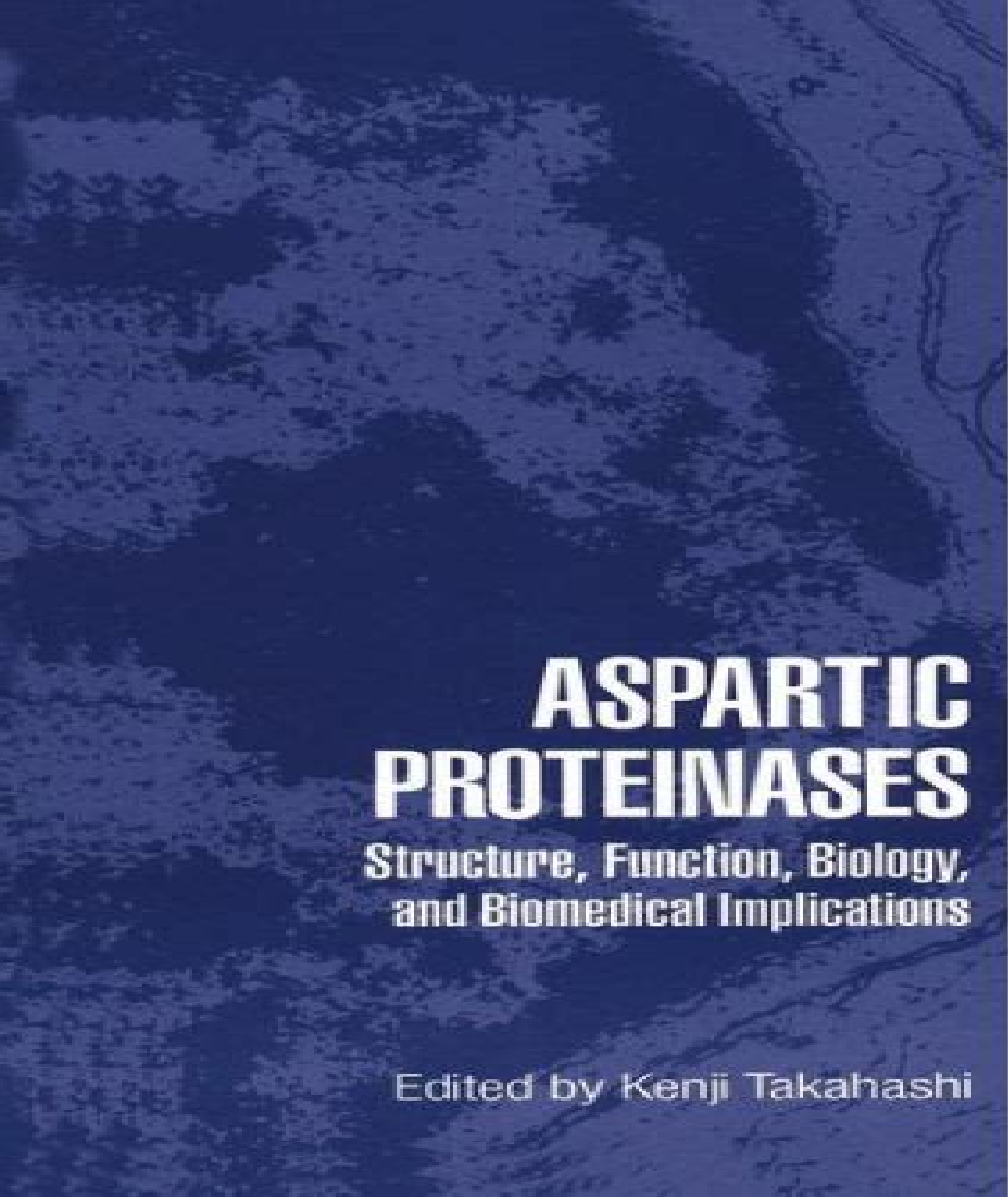


A dark blue, textured background featuring a microscopic image of tissue, likely showing cellular structures and possibly a large, dark, irregular mass that could be a tumor or a specific cellular component.

ADVANCES IN
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Volume 362

ASPARTIC PROTEINASES

**Structure, Function, Biology,
and Biomedical Implications**

Edited by Kenji Takahashi

Aspartic Proteinases Vol 362 Structure Function Biology And Biomedical Implications

C Cleary



Aspartic Proteinases Vol 362 Structure Function Biology And Biomedical Implications:

Aspartic Proteinases Kenji Takahashi, 2012-12-06 The 5th International Conference on Aspartic Proteinases was held on September 19 through 24 1993 at Naito Museum of Pharmaceutical Science and Industry Kawashima cho Gifu Prefecture Japan about 15 miles northwest of Nagoya City About 100 scientists attended the conference including 52 from 14 countries outside Japan and 32 papers were presented by invited speakers and 58 papers as posters The purpose of this conference was to present and discuss new information on the structure function and biology and related topics including biomedical implications of aspartic proteinases and this book is a collection of nearly all the papers presented at the meeting Aspartic proteinases belong to one of the four major classes of proteinases the others being serine cysteine and metalloproteinases and are so called since they have two catalytic aspartic acid residues in common in their active sites Most of them are optimally active at acidic pH hence the long used name acid proteinases which indeed was the major title of the first conference of this series However some of them are active at around neutral pH indicating their physiological roles in a wider range of pH than hitherto considered

Aspartic Proteinases Michael N.G. James, 2012-12-06 The VIIth International Conference on Aspartic Proteinases was held in Banff Alberta Canada from October 22 to 27 1996 The venue was the Banff Centre in the Canadian Rockies a setting well known worldwide for the scenic beauty and mountain grandeur It was perhaps presumptuous of the organizers to call this the seventh Aspartic Proteinase Conference but it was felt that the meeting in 1982 organized by Tom Blundell and John Kay was of an international stature and covered topics sufficiently broad to constitute a conference Thus there is a discontinuity in that the Gifu Conference organized by Prof Kenji Takahashi was the fifth International Conference on Aspartic Proteinases Officially there has not been a sixth Conference and if there is confusion it is the result of my desire to recognize the importance of the London meeting Banffhosted 106 scientists from 14 different countries There were 26 invited speakers among the 44 oral presentations of the 7 main sessions In addition there were 53 contributed poster presentations that spanned the whole range of interest in aspartic proteinases

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 *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 Mechanisms of Lymphocyte Activation and Immune Regulation V Sudhir Gupta, William E. Paul, Anthony

DeFranco, Roger Perlmutter, 2013-06-29 Signaling through antigen receptor initiates a complex series of events resulting in the activation of genes that regulate the development proliferation and differentiation of lymphocytes During the past few years rapid progress has been made in understanding the molecular basis of signaling pathways mediated by antigen and cytokine receptors These pathways involve protein tyrosine kinases which are coupled to downstream regulatory molecules including small guanine nucleotide binding proteins e g p21 OS serine threonine kinases e g members of the ERK family and a large group of transcription factors More recently there have been breakthroughs in elucidating the genetic defects underlying three X linked primary immunodeficiency diseases in humans This volume surveys aspects of these rapidly developing areas of research The book is divided into 5 different sections Section I deals with signaling pathways in B lymphocytes It includes a contemporary assessment of B cell antigen receptor structures and discussion of the role of Ig a lg B polypeptides in linking the antigen receptor to intracellular signal transduction pathways The role of accessory molecules in the regulation of signaling by the B cell antigen receptor is also considered Section II adopts a similar approach to the analysis of the antigen receptor on T lymphocytes The importance of specialized signaling motifs in the CD3 polypeptides mechanisms whereby these motifs may interact with the lymphocyte specific protein tyrosine kinases and the downstream consequences of these interactions are reviewed In addition the role of antigen induced apoptosis in the generation of immunological tolerance is discussed **Neurochemistry in Clinical Application** Lily C. Tang, Stephen J. Tang, 2012-12-06

Neurological disorders cause untold suffering and financial burden to hundreds of thousands of people not only to the patients but also the relatives and society As of today though numerous scientists and clinicians have devoted their efforts to understand and combat these diseases there is still no cure or satisfactory solution to the problems Furthermore the brain is the most essential organ of a human being Realizing the importance of the brain the president of the United States George Bush declared the 90s as the Decade of the Brain in January 1992 Being in neuroscience research for almost three decades I initiated planned and organized the first international neuropharmacology symposium After long negotiation and fund raising

with the assistance and moral support of Dr Abel Lajtha director of the Center of Neurochemistry in New York USA we finally successfully put the program together The Sun Yat sen Foundation in China supported all the local expenses of the symposium and Sun Yat sen University of Medicine in Guangzhou China served as host organization The symposium was held in Guangzhou China November 9 11 1992 the eve of Dr Sun Yat sen s birthday Dr Sun Yat sen was born in Cui Heng Cun on the outskirts of Guangzhou China on November 12 1866 He finished his high school education in the British and American Christian school in Honolulu where he was exposed to Western influence He had been long frustrated and discontented with the backwardness and corruption of the Ching Dynasty

Hepatic Encephalopathy, Hyperammonemia, and Ammonia Toxicity Vicente Felipo, Santiago Grisolia, 2012-12-06 This volume contains the papers presented at the International Symposium on Cirrhosis Hyperammonemia and Hepatic Encephalopathy held in Valencia Spain January 24th 27th 1994 Liver cirrhosis and other hepatic dysfunctions such as fulminant hepatic failure and congenital defects of urea cycle enzymes can lead to hepatic encephalopathy coma and death Hepatic encephalopathy is one of the main causes of death in western countries The ability to detoxify ammonia by its incorporation into urea is diminished by impaired liver function resulting in increased ammonia levels in blood and brain Hyperammonemia is considered one of the main factors in the mediation of hepatic encephalopathy and the classical clinical treatments are directed towards reducing blood ammonia levels However the molecular bases of the pathogenesis of hepatic encephalopathy and the role of hyperammonemia in this process remain unclear and several hypotheses have been proposed To clarify the mechanisms involved in hepatic encephalopathy and hyperammonemia suitable animal models are necessary The animal models available and the ideal features of an animal model are presented in the initial part of the book

Taurine in Health and Disease Ryan J. Huxtable, Dietrich Michalk, 2013-11-21 Taurine or 2 aminoethane sulfonic acid has long been known to be the major organic product formed from the breakdown of the sulfur containing amino acids methionine and cysteine It is excreted as such in the urine or as bile acid conjugates in the bile Research over the last 25 years however has uncovered an amazing variety of phenomena involving taurine Despite the fact that the mechanism of action of taurine in some of these phenomena remains to be elucidated it is clear that taurine is of far more physiological relevance than being the mere metabolic debris of sulfur amino acid catabolism It also has numerous pharmacological actions that are beginning to be developed as exemplified by some of the studies reported in this volume This volume reports the proceedings of the latest of a series of international symposia continuing on from the initial meeting held in Tucson Arizona in 1975 The latest symposium was the first to be held in Germany in Cologne from August 29 through September 1 1993 It continued the multidisciplinary approach that has been the norm for taurine symposia We hope the publication of the proceedings will stimulate further investigations on this simple but fascinating compound

Lactoferrin T. William Hutchens, Bo Lönnerdal, Sylvia V. Rumball, 2012-12-06 Lactoferrin is an intriguing protein with an interesting structure and several known or suggested biological activities We feel that attention on

this protein has been too limited and diffuse partly because it has been hidden among other well known iron binding proteins such as hemoglobin ferritin and transferrin but also perhaps because its biological functions are so diverse Investigators that focus on lactoferrin represent a wide variety of medical and scientific disciplines that do not usually come together It was our intention to improve that situation with this symposium In this book experts from a variety of disciplines describe the present knowledge of the structural features of lactoferrin its carbohydrate side chains and its capacity to bind different metal ions and anions Several of the possible physiological functions of lactoferrin are described in detail including the role of lactoferrin in bacterial killing its involvement in growth and proliferation in immune function and in iron absorption Aspects of the molecular biology of lactoferrin and its specific interactions with different cell types are also included Finally as lactoferrin now has become commercially available in larger quantities possible industrial applications are discussed The book should give the interested reader a thorough insight into our present knowledge of lactoferrin

Diet and Breast Cancer American Institute for Cancer Research, Elizabeth K. Weisburger, 2012-12-06 The fourth annual American Institute for Cancer Research AICR conference on diet nutrition and cancer was held at the L'Enfant Plaza Hotel in Washington D C September 2 3 1993 In keeping with present concerns and in line with current trends the theme was Diet and Breast Cancer This proceedings volume is comprised of chapters from the platform presentations of the two day conference and abstracts from the poster session held at the end of the first day Experimentally there is sufficient evidence to support a relationship between dietary fat and the risk of breast cancer A meta analysis was provided by data from 114 experiments with over 10 000 animals divided into groups fed ad libitum on diets with different levels or sources of fat or different levels of energy restriction This exercise suggested that linoleic acid was a major determinant of mammary tumor development but that other fatty acids also enhanced mammary tumor development in animals However as mentioned by several speakers results from epidemiological studies often are conflicting thus leading to confusion among both health professionals and the public Surveys of specific populations which have migrated from countries with low breast cancer rates to those with higher rates are often some of the most compelling studies with respect to a high fat diet breast cancer association Nonetheless various cohort and prospective studies some quite large did not appear to show a relationship between consumption of fat any type and breast cancer

Free Radicals in Diagnostic Medicine Donald Armstrong, 2012-12-06 An International Symposium on Free Radicals in Diagnostic Medicine was co sponsored by the state University of New York at Buffalo Roswell Park Cancer Institute and the Upstate NY Section of the American Association of Clinical Chemistry The theme was A Systems Approach To Laboratory Technology Clinical Correlations And Antioxidant Therapy The symposium was held on October 7 8 1993 at the Hyatt Hotel and on October 9 at Roswell Park Cancer Institute Buffalo New York This proceedings volume contains chapters from platform presentations poster sessions and from invited special lectures in the areas of basic science clinical applications and efficacy of treatment A Special Lecture on the relevance of free radical analysis to clinical medicine was

presented by Professor Kunio Yagi of Japan The Yagi procedure to measure thiobarbituric acid TBA reaction reflects the amount of reactive substances lipid peroxides and aldehydes in the sample For example normal subjects will have less than 4 nmol ml of serum lipid peroxides while a person with diabetes generally has equal or greater than 5 0 and a diabetic person with vascular complications often exceeds 7 5 nmol ml Serum TBA is a clinically important measure that relates to aging gender and estrogen as an antioxidant in the prognosis for vascular disorders and in pathological conditions relative to the amount of lipid peroxidation The BASIC SCIENCES portion of the program examined Mechanisms of Action Pathophysiology and Laboratory Tests in six presentations Oxygen Transport to Tissue XVI Michael C. Hogan, Odile Mathieu-Costello, David C. Poole, Peter D. Wagner, 2012-12-06 Since its inception in 1973 The International Society on Oxygen Transport to Tissue ISOTT has provided a unique forum to facilitate and encourage scientific interaction and debate Welcoming scientists and clinicians from a broad spectrum of disciplines each with their own particular skills and expertise ISOTT unites them under the common theme of oxygen transport The successful blend of scientific presentations and informal discussion which characterizes ISOTT is epitomized best by the many fundamental discoveries and technical advancements which it has spawned The breadth and strengths of The Society's scientific base promotes the rapid progression of ideas from theoretical concepts to rigorous scientific testing and often ultimately to the clinical arena Each publication of the ISOTT proceedings has been recognized by Science Citation Index listing and the papers frequently establish scientific precedents and become considered as standard works in their respective fields The 21st ISOTT Meeting was held in San Diego from August 14th through August 18th 1993 The San Diego Meeting attracted about 150 registrants and 40 accompanying persons Ten state of the art lectures were presented by international experts in transport and there were in addition two symposia one dealing with assessment of tissue hypoxia and the other with functional heterogeneity in different organ systems There were 100 free communications consisting of posters accompanied by an abbreviated oral summary All manuscripts were reviewed by the Editors for form and content but as is customary for the ISOTT proceedings rigorous scientific peer review was not undertaken *Purification and Characterization of Gastric Proteases from Rainbow Trout (*Oncorhynchus Mykiss*)* Vasana Chandani Weerasinghe, 2003 **Directory of Published Proceedings**, 1998

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 Improving the Safety and Quality of Milk M. Griffiths, 2010-04-08 Consumers demand quality milk with a reasonable shelf life a requirement that can be met more successfully by the milk industry through use of improved processes and technologies Guaranteeing the production of safe milk also remains of paramount importance Improving the safety and quality of milk provides a comprehensive and timely reference to best practice and research advances in these areas Volume 1 focuses on milk production and processing Volume 2 covers the sensory and nutritional quality of cow s milk and addresses quality improvement of a range of other milk based products The opening section of Volume 1 Milk production and processing introduces milk biochemistry and raw milk microbiology Part two then reviews major milk contaminants such as bacterial pathogens pesticides and veterinary residues The significance of milk production on the farm for product quality and safety is the focus of Part three Chapters cover the effects of cows diet and mastitis among other topics Part four then reviews the state of the art in milk processing Improving the quality of pasteurised milk and UHT milk and novel non thermal processing methods are among the subjects treated With its distinguished editor and international team of contributors volume 1 of Improving the safety and quality of milk is an essential reference for researchers and those in industry responsible for milk safety and quality Addresses consumer demand for improved processes and technologies in the production safety and quality of milk and milk products Reviews the major milk contaminants including bacterial pathogens pesticides and veterinary residues as well as the routes of contamination analytical techniques and methods of control Examines the latest advances in milk processing methods to improve the quality and safety of milk such as modelling heat processing removal of bacteria and microfiltration techniques *Medical and Health Care Books and Serials in Print* ,1997 **Index of Conference Proceedings** ,1995 **Bibliography of Agriculture** ,1996 *Bibliography of Agriculture with Subject Index* ,1996

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