

# RIBONUCLEASES

STRUCTURES AND FUNCTIONS



Edited by Giuseppe D'Alessio and James F. Riordan

ACADEMIC PRESS

# Ribonucleases Structures And Functions

**John R. Helliwell**



## **Ribonucleases Structures And Functions:**

*Ribonucleases* Giuseppe D'Alessio, James F. Riordan, 1997-02-11 Pancreatic ribonuclease the focus of highly productive scientific research for more than half a century and the only enzyme to be the basis of four Nobel prizes has recently undergone a resurgence in popularity for the recognition of an extended ribonuclease superfamily with functions ranging from tumour growth and inhibition to self recognition and neurotoxicity This volume highlights the functional diversity of ribonucleases and reveals the emerging research opportunities provided by these enzymes Never before has discussion of the entire family of ribonucleases and related enzymes been covered in a single volume Core chapters focus on the latest structures and functions of pancreatic type ribonucleases Structures and functions of intracellular ribonucleases and nondigestive members of the family are also covered How ribonucleases continue to serve as excellent systems with which to uncover the secrets of protein chemistry is demonstrated Ribonucleases, Part A: Functional Roles and Mechanisms of Action, 2001-09-26 This first of two volumes provides up to date methods related information on ribonuclease functions assays and applications Chapter topics include the identification of characterization of and assays for secreted ribonucleases viral ribonucleases artificial and engineered ribonucleases and ribozymes The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences **Ribonucleases** Allen W. Nicholson, 2011-10-06 Ribonucleases are a ubiquitous and functionally diverse group of enzymes that have a common ability to cleave RNA Either through scission of internal phosphodiester bonds or removal of nucleotides from RNA 5' or 3' ends ribonucleases perform essential roles in gene expression and regulation genome replication and maintenance host defense stress response and viral strategies of infection Ribonucleases have also served as highly informative models to understand virtually every aspect of biomolecular structure and function The fifteen chapters in this volume are written by recognized researchers in the field and provide in depth analyses of the major ribonuclease families Particular focus is given to the relation of ribonuclease structure and mechanism to biological function as well as ribonuclease dysfunction in certain disease states Other topics include the evolutionary genetics and functional diversification of ribonucleases engineered ribonucleases as anti cancer agents the mechanisms of action of artificial ribonucleases and ribonucleases as models to understand protein folding and stability This volume should serve as an essential reference for a broad range of researchers and educators with interests in RNA metabolism enzymology and gene regulation The Evolution of Protein Structure and Function David S. Sigman, Mary A. B. Brazier, 2013-10-02 The Evolution of Protein Structure and Function documents the proceedings of the symposium Evolution of Protein Structure and Function held at the Dickson Art Auditorium University of California Los Angeles UCLA 28-29 June 1979 Its objective was to

honor Professor Emil L Smith on the occasion of his retirement as Professor and Chairman Department of Biological Chemistry School of Medicine UCLA The papers presented by Emil s colleagues friends and students from all phases of his long and varied scientific career provided a valuable review of enzymology protein chemistry and biochemical evolution The volume contains 16 chapters is organized into three parts Part I contains papers on enyzmology including the role of the recA protein of Escherichia coli in general recombination the evolution of enzyme families and studies on metalloenzymes Part II takes up protein structure and function It includes papers on glycoprotein hormones thymus hormones chromosome biology and chemistry and the evolution of histones Part III examines the evolution of proteins including the evolution of cytochrome c and evolution of phycobilisome of cyanobacteria and red algae

**Progress in Nucleic Acid Research and Molecular Biology** Kivie Moldave,2005-09-20 Nucleic acids are the fundamental building blocks of DNA and RNA and are found in virtually every living cell Molecular biology is a branch of science that studies the physicochemical properties of molecules in a cell including nucleic acids proteins and enzymes Increased understanding of nucleic acids and their role in molecular biology will further many of the biological sciences including genetics biochemistry and cell biology Progress in Nucleic Acid Research and Molecular Biology is intended to bring to light the most recent advances in these overlapping disciplines with a timely compilation of reviews comprising each volume

**Structure and Function of Bacterial Ribonuclease P** Alexei V. Kazantsev,2001 Protein-Ligand Interactions Hans-Joachim Böhm,Gisbert

Schneider,2006-03-06 The lock and key principle formulated by Emil Fischer as early as the end of the 19th century has still not lost any of its significance for the life sciences The basic aspects of ligand protein interaction may be summarized under the term molecular recognition and concern the specificity as well as stability of ligand binding Molecular recognition is thus a central topic in the development of active substances since stability and specificity determine whether a substance can be used as a drug Nowadays computer aided prediction and intelligent molecular design make a large contribution to the constant search for e g improved enzyme inhibitors and new concepts such as that of pharmacophores are being developed An up to date presentation of an eternally young topic this book is an indispensable information source for chemists

biochemists and pharmacologists dealing with the binding of ligands to proteins

**Nuclease Methods and Protocols** Catherine H. Schein,2008-02-03 Nucleases enzymes that restructure or degrade nucleic acid polymers are vital to the control of every area of metabolism They range from housekeeping enzymes with broad substrate ranges to extremely specific tools 1 Many types of nucleases are used in lab protocols and their commercial and clinical uses are expanding The purpose of Nuclease Methods and Protocols is to introduce the reader to some we characterized protein nucleases and the methods used to determine their activity structure interaction with other molecules and physiological role Each chapter begins with a mini review on a specific nuclease or a nuclease related theme Although many chapters cover several topics they were arbitrarily divided into five parts Part I Characterizing Nuclease Activity includes protocols and assays to determine general

processive distributive or specific mechanisms Methods to assay nuclease products identify cloned nucleases and determine their physiological role are also included here Part II Inhibitors and Activators of Nucleases summarizes assays for measuring the effects of other proteins and small molecules Many of these inhibitors have clinical relevance Part III Relating Nuclease Structure and Function provides an overview of methods to determine or model the 3 D structure of nucleases and their complexes with substrates and inhibitors A 3 D structure can greatly aid the rational design of nucleases and inhibitors for specific purposes Part IV Nucleases in the Clinic summarizes assays and protocols suitable for use with tissues and for nuclease based therapeutics *Proteins: Structure, Function, and Engineering* B.B. Biswas, Siddhartha Roy, 2013-06-29

Here researchers review the latest breakthroughs in protein research Their contributions explore emerging principles and techniques and survey important classes of proteins that will play key roles in the field's future Articles examine the possibility of a Boltzman like distribution in protein substructures the new technique of Raman spectroscopy and compact intermediate states of protein folding This well illustrated volume also features coverage of proteins that bind nucleic acids

**Structure and Function of E. Coli Ribonuclease III** Stephen V. Su, 2002 **Perspectives in Crystallography** John R. Helliwell, 2015-11-16 Crystallography is one of the most multidisciplinary sciences with roots in fields as varied as mathematics physics chemistry biology materials science computation and earth and planetary science The structural knowledge gained from crystallography has been instrumental in acquiring new levels of understanding in numerous scientific areas *P Regulation and Function of Arabidopsis Thaliana Secreted Ribonucleases* Nicole D. LeBrasseur, 2001

Cumulated Index Medicus, 1970 *Structure, Mechanism and Function of Ribonucleases* Claudi M. Cuchillo, 1991

*Handbook of Food Enzymology* John R. Whitaker, Alphons G. J. Voragen, Dominic W.S. Wong, 2002-12-05 Discussing methods of enzyme purification characterization isolation and identification this book details the chemistry behavior and physicochemical properties of enzymes to control enhance or inhibit enzymatic activity for improved taste texture shelf life nutritional value and process tolerance of foods and food products The book covers **Biophysical, Chemical, and**

**Functional Probes of RNA Structure, Interactions and Folding: Part A** Daniel Herschlag, 2009-11-16 This MIE volume provides laboratory techniques that aim to predict the structure of a protein which can have tremendous implications ranging from drug design to cellular pathways and their dynamics to viral entry into cells Expert researchers introduce the most advanced technologies and techniques in protein structure and folding Includes techniques on tiling assays

**Bibliography of Agriculture**, 1975 Current Advances in the Research of RNA Regulatory Enzymes Akio Kanai, Tohru Yoshihisa, 2020-01-02 **Ribonucleases, Part B: Artificial and Engineered Ribonucleases and Specific Applications**, 2001-09-28 This second volume on ribonucleases provides up to date methods related information on these enzymes Of particular interest to researchers will be the discussion of artificial and engineered ribonucleases as well as the application of ribonucleases in medicine and biotechnology The critically acclaimed laboratory standard for more than forty

years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences      **Identification and Characterization of Messenger Ribonucleases and Their Roles in Messenger RNA Degradation in Mammalian Cells** Richard S. Stewart, 1998

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