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VOLUME 173

Calcium-Binding Protein Protocols

*Volume II
Methods and Techniques*

Edited by

Hans J. Vogel



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Calciumbinding Protein Protocols Volume 2 Methods And Techniques

Hans J. Vogel



Calciumbinding Protein Protocols Volume 2 Methods And Techniques:

Calcium-Binding Protein Protocols Hans J. Vogel, 2008-02-05 Calcium plays an important role in a wide variety of biological processes. This divalent metal ion can bind to a large number of proteins by doing so it modifies their biological activity or their stability. Because of its distinct chemical properties, calcium is uniquely suited to act as an on/off switch or as a light dimmer of biological activities. The two books entitled *Calcium Binding Protein Protocols Volumes I and II* focus on modern experimental analyses and methodologies for the study of calcium binding proteins. Both extracellular and intracellular calcium binding proteins are discussed in detail. However, proteins involved in calcium handling, e.g., calcium pumps and calcium channels, fall outside of the scope of these two volumes. Also, calcium binding proteins involved in bone deposition will not be discussed as this specific topic has been addressed previously. The focus of these two books is on studies of the calcium binding proteins and their behavior in vitro and in vivo. The primary emphasis is on protein chemistry and biophysical methods. Many of the methods described will also be applicable to proteins that do not bind calcium. *Calcium Binding Protein Protocols* is divided into three main sections. The section entitled *Introduction and Reviews* provides information on the role of calcium in intracellular secondary messenger activation mechanisms. Moreover, unique aspects of calcium chemistry and the utilization of calcium in dairy proteins as well as calcium binding proteins involved in blood clotting are addressed.

Calcium-Binding Protein Protocols Hans J. Vogel, 2008-02-04 Calcium plays an important role in a wide variety of biological processes. This divalent metal ion can bind to a large number of proteins by doing so it modifies their biological activity or their stability. Because of its distinct chemical properties, calcium is uniquely suited to act as an on/off switch or as a light dimmer of biological activities. The two books entitled *Calcium Binding Protein Protocols Volumes I and II* focus on modern experimental analyses and methodologies for the study of calcium binding proteins. Both extracellular and intracellular calcium binding proteins are discussed in detail. However, proteins involved in calcium handling, e.g., calcium pumps and calcium channels, fall outside of the scope of these two volumes. Also, calcium binding proteins involved in bone deposition will not be discussed as this specific topic has been addressed previously. The focus of these two books is on studies of the calcium binding proteins and their behavior in vitro and in vivo. The primary emphasis is on protein chemistry and biophysical methods. Many of the methods described will also be applicable to proteins that do not bind calcium. *Calcium Binding Protein Protocols* is divided into three main sections. The section entitled *Introduction and Reviews* provides information on the role of calcium in intracellular secondary messenger activation mechanisms. Moreover, unique aspects of calcium chemistry and the utilization of calcium in dairy proteins as well as calcium binding proteins involved in blood clotting are addressed.

Protein Structure, Stability, and Folding Kenneth P. Murphy, 2008-02-04 In *Protein Structure Stability and Folding* Kenneth P. Murphy and a panel of internationally recognized investigators describe some of the newest experimental and theoretical methods for investigating these critical events and processes. Among the techniques discussed are the many

methods for calculating many of protein stability and dynamics from knowledge of the structure and for performing molecular dynamics simulations of protein unfolding New experimental approaches presented include the use of co solvents novel applications of hydrogen exchange techniques temperature jump methods for looking at folding events and new strategies for mutagenesis experiments Unique in its powerful combination of theory and practice Protein Structure Stability and Folding offers protein and biophysical chemists the means to gain a more comprehensive understanding of some of this complex area by detailing many of the major techniques in use today Calcium-Binding Protein Protocols Hans J. Vogel,2002-01-02 Calcium plays an important role in a wide variety of biological processes This divalent metal ion can bind to a large number of proteins by doing so it modifies their biological activity or their stability Because of its distinct chemical properties calcium is uniquely suited to act as an on off switch or as a light dimmer of biological activities The two books entitled Calcium Binding Protein Protocols Volumes I and II focus on modern experimental analyses and methodologies for the study of calcium binding proteins Both extracellular and intracellular calcium binding proteins are discussed in detail However proteins involved in calcium handling e g calcium pumps and calcium channels fall outside of the scope of these two volumes Also calcium binding proteins involved in bone deposition will not be discussed as this specific topic has been addressed previously The focus of these two books is on studies of the calcium binding proteins and their behavior in vitro and in vivo The primary emphasis is on protein chemistry and biophysical methods Many of the methods described will also be applicable to proteins that do not bind calcium Calcium Binding Protein Protocols is divided into three main sections The section entitled Introduction and Reviews provides information on the role of calcium in intracellular secondary messenger activation mechanisms Moreover unique aspects of calcium chemistry and the utilization of calcium in dairy proteins as well as calcium binding proteins involved in blood clotting are addressed *Posttranslational Modification of Proteins* Christoph Kannicht,2008-02-04 Christoph Kannicht and a panel of highly experienced researchers describe readily reproducible methods for detecting and analyzing the posttranslational modifications of protein particularly with regard to protein function proteome research and the characterization of pharmaceutical proteins **Calcium-Binding Protein Protocols** Hans J. Vogel,2002-01-02 Calcium plays an important role in a wide variety of biological processes This divalent metal ion can bind to a large number of proteins by doing so it modifies their biological activity or their stability Because of its distinct chemical properties calcium is uniquely suited to act as an on off switch or as a light dimmer of biological activities The two books entitled Calcium Binding Protein Protocols Volumes I and II focus on modern experimental analyses and methodologies for the study of calcium binding proteins Both extracellular and intracellular calcium binding proteins are discussed in detail However proteins involved in calcium handling e g calcium pumps and calcium channels fall outside of the scope of these two volumes Also calcium binding proteins involved in bone deposition will not be discussed as this specific topic has been addressed previously The focus of these two books is on studies of the calcium binding proteins and their behavior in vitro

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Nuclear Magnetic Resonance G A Webb, 2007-10-31 As a spectroscopic method nuclear magnetic resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Nucleic Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Volume 33 covers literature published from June 2002 to May 2003 Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

Cardiac Cell and Gene Transfer Joseph M. Metzger, 2008-02-03 Heart disease is the leading cause of death in developed countries Recent experimental advances featuring cellular molecular and genetic tools and technologies offer the potential for new therapeutic strategies directed toward remediation of inherited and acquired heart diseases Whether these recent basic science advances will ultimately translate to clinical efficacy for patients with heart disease is unknown and is important to ascertain Cardiac Cell and Gene Transfer Principles Protocols and Applications is designed to provide the reader with up to date coverage of a myriad of specific methodologies and protocols for gene and cell transfer to the myocardium Each chapter features a Notes section that provides useful how to problem solving insights that are often left unstated in standard published protocols Cardiac Cell and Gene Transfer Principles Protocols and Applications addresses principles and applications of cell and gene transfer to the heart including protocols for vector production and purification Detailed step by step methods and applications for first second generation adenoviral vectors adeno associated vectors gutted adenoviral vectors and lentiviral vectors are included Additionally detailed methods for cardiac cell grafting and transplantation are provided and these chapters highlight the prospects of cell based therapies for cardiac repair The book also covers specific in vivo techniques for cardiac gene transfer and specifies subsequent cellular and organ level

physiological assessment techniques and protocols Accordingly this book is designed for basic science and clinical researchers in the academic pharmaceutical and biotechnology sectors of the cardiovascular community

Capillary Electrophoresis of Nucleic Acids Keith R. Mitchelson, Jing Cheng, 2008-02-05 The development of PCR which enables extremely small amounts of DNA to be amplified led to the rapid development of a multiplicity of analytical procedures that permit use of this new resource for the analysis of genetic variation and for the detection of disease causing mutations The advent of capillary electrophoresis CE with its power to separate and analyze very small amounts of DNA has also stimulated researchers to develop analytical procedures for the CE format The advantages of CE in terms of speed and reproducibility of analyses are manifold Furthermore the high sensitivity of detection and the ability to increase sample throughput with parallel analysis has led to the creation of a full range of analysis of DNA molecules from modified DNA adducts and single strand oligonucleotides through PCR amplified DNA fragments and whole chromosomes Capillary Electrophoresis of Nucleic Acids focuses on analytical protocols that can be used for detection and analysis of mutations and modification from precise DNA loci through entire genomes of organisms Important practical considerations for CE such as the choice of separation media electrophoresis conditions and the influence of buffer additives and dyes on DNA mobility are discussed in several key chapters and within particular applications

PCR Detection of Microbial Pathogens Konrad Sachse, Joachim Frey, 2003 Hands on laboratory experts present a set of classic PCR based methods for the identification and detection of important animal and food microbial pathogens including several zoonotic agents These proven techniques can be precisely applied to a wide variety of microbes among them *Campylobacter* spp *Chlamydiae* toxigenic *Clostridia* *Escherichia coli* STEC *Listeria monocytogenes* *Mycoplasmas* *Salmonellae* and *Yersinia enterocolitica* Additional chapters review the specificity and performance of diagnostic PCR analysis the pre PCR processing of samples the critical aspects of standardizing PCR methods and the general issues involved in using PCR technology for microbial diagnosis

Tumor Suppressor Genes Wafik S. El-Deiry, 2008-02-03 It has become clear that tumors arise from excessive cell proliferation and a corresponding reduction in cell death Tumors result from the successive accumulation of mutations in key regulatory target genes over time During the 1980s a number of oncogenes were characterized whereas from the 1990s to the present the emphasis shifted to tumor suppressor genes TSGs It has become clear that oncogenes and tumor suppressor genes function in the same pathways providing positive and negative growth regulatory activities The signaling pathways controlled by these genes involve virtually every process in cell biology including nuclear events cell cycle cell death cytoskeletal cell membrane angiogenesis and cell adhesion effects Tumor suppressor genes are mutated in hereditary cancer syndromes as well as somatically in nonhereditary cancers In their normal state TSGs control cancer development and progression as well as contribute to the sensitivity of cancers to a variety of therapeutics Understanding the classes of TSGs the biochemical pathways they function in and how they are regulated provides an essential lesson in cancer biology We cannot hope to advance our current

knowledge and to develop new and more effective therapies without understanding the relevant pathways and how they influence the present approaches to therapy Moreover it is important to be able to access the powerful tools now available to discover these genes as well as their links to cell biology and growth control **Biochemicals, Reagents & Kits for Life**

Science Research Sigma Chemical Company,2006 *Platelets and Megakaryocytes* Jonathan M. Gibbins,Martyn P. Mahaut-Smith,2004-08-13 12 The average human body has on the order of 10 circulating platelets They are crucial for hemostasis and yet excessive platelet activation is a major cause of morbidity and mortality in Western societies It is therefore not surprising that platelets have become one of the most extensively investigated biological cell types We are however far from understanding precisely how platelets become activated under physiological and pathophysiological conditions In addition there are large gaps in our knowledge of platelet production from their giant precursor cell the megakaryocyte Understanding megakaryocyte biology will be crucial for the development of platelet gene targeting The aim of *Platelets and Megakaryocytes* is therefore to bring together established and recently developed techniques to provide a comprehensive guide to the study of both the platelet and the megakaryocyte It consists of five sections split between two volumes The more functional assays appear in Volume 1 whereas Volume 2 includes signaling techniques postgenomic methods and a number of key perspectives chapters Part I of Volume 1 *Platelets and Megakaryocytes Functional Assays* describes many well established approaches to the study of platelet function including aggregometry secretion arachidonic acid metabolism procoagulant responses platelet adhesion under static or flow conditions flow cytometry and production of microparticles Although one would ideally wish to perform experiments with human platelets studies within the circulation using intravital microscopy require the use of animal models which are described in Chapter 16 vol 1 **Journal of Cell Science** ,2004

Forthcoming Books Rose Arny,2002 **Subject Guide to Books in Print** ,2001 **Encyclopedia of Molecular Biology, Volume 3** Thomas E. Creighton,1999-04-23 Annotation The field of molecular biology has revolutionized the study of biology The applications to medicine are enormous ranging from diagnostic techniques for disease and genetic disorders to drugs to gene therapy Focusing on the fundamentals of molecular biology and encompassing all aspects of the expression of genetic information the *Encyclopedia of Molecular Biology* will become the first point of reference for both newcomers and established professionals in molecular biology needing to learn about any particular aspect of the field **American Book Publishing Record** ,2007 The Zoological Record ,2003 Medical Books and Serials in Print ,1984

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