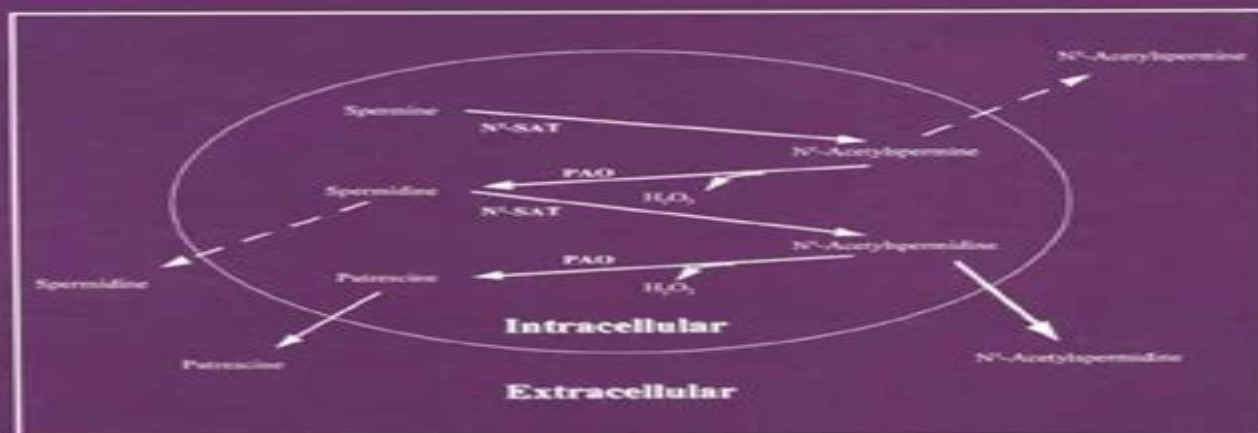


Methods in Molecular Biology™

Volume 79

POLYAMINE PROTOCOLS

Edited by
David M. L. Morgan



Humana Press

Polyamine Protocols

Mary Keen



Polyamine Protocols:

Polyamine Protocols David M. L. Morgan, 2008-02-02 A unique collection of hands on enzyme assay techniques to study polyamines and their function The techniques range from assay methods for enzymes of polyamine biosynthesis and catabolism to measurements of polyamines polyamine transport and polyamine effects on cell growth The methods are presented by leading researchers who have perfected them to a high art and include clear step by step instructions with numerous hints and tips to ensure readily reproducible results *Polyamines in Health and Nutrition* Susan Bardocz, Ann White, 1999-06-30 The importance of polyamines for all living cells has been recognized since spermine was discovered in human semen more than 300 years ago Polyamine research intensified when analytical methods were developed for their determination particularly in tissues and biological fluids Discovering their close correlation with cancer and that polyamine concentrations change during the cell cycle gave reason for further research in this topic Polyamines in Health and Nutrition concentrates on the direction of polyamine research which has the capacity to influence and benefit our health and which can explain some of the discrepancies and failures of earlier research It is important to recognize the dietary contribution to the polyamine body pool and to investigate how the polyamine content of the diet can be changed with the ultimate aim of using this information to improve our health

Plant Virology Protocols Gary D. Foster, Sally Taylor, 2008-02-03 The aim of Plant Virology Protocols is to provide a source of information to guide the reader through the wide range of methods involved in generating transgenic plants that are resistant to plant viruses To this end we have commissioned a wide ranging list of chapters that will cover the methods required for plant virus isolation RNA extraction cloning coat protein genes introduction of the coat protein gene into the plant genome and testing transgenic plants for resistance The book then moves on to treatments of the mechanisms of resistance the problems encountered with field testing and key ethical issues surrounding transgenic technology Although Plant Virology Protocols deals with the cloning and expression of the coat protein gene the techniques described can be equally applied to other viral genes and nucleotide sequences many of which have also been shown to afford protection when introduced into plants The coat protein has however been the most widely applied and as such has been selected to illustrate the techniques involved Plant Virology Protocols has been divided into six major sections containing 55 chapters in total

The Handbook of Microbial Metabolism of Amino Acids J P F D'Mello, 2017-04-10 This book collates and reviews recent advances in the microbial metabolism of amino acids emphasizing diversity in terms of the range of organisms under investigation and their natural ecology and the unique features of amino acid metabolism in bacteria yeasts fungi protozoa and nematodes As well as studying the individual amino acids including arginine sulfur amino acids branched chain amino acids and aromatic amino acids a number of themes are explored throughout the work As the volume of research into the metabolism of amino acids grows this comprehensive study of the subject is a vital tool for researchers in the fields of biological medical and veterinary sciences including microbiology biochemistry genetics and pathology This book

is also essential for corporate organizations with active research and development programmes such as those in the pharmaceutical industry

Polyamines Anthony E. Pegg, Robert A. Casero, Jr., 2011-04-06 Recently important new findings in the polyamine field and a variety of new experimental systems have revolutionized the study of these ubiquitous cellular components essential for normal growth and development In *Polyamines Methods and Protocols* leading researchers contribute an extensive collection of up to date laboratory techniques for the further pursuit of polyamine study The volume delves into vital subjects such as neoplasia studies with animal models and human patients therapeutic roles for polyamine inhibitors and analogs polyamine metabolism and oxidative damage polyamines as regulators of critical ion channels as well as polyamine transport systems and polyamine responsive genes Written in the highly successful *Methods in Molecular Biology*™ series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and expert notes on troubleshooting and avoiding known pitfalls Comprehensive and cutting edge *Polyamines Methods and Protocols* provides a key resource for all scientists pursuing the study of this dynamic and significant aspect of cellular biology

Enzymes of Polyamine Metabolism, 2025-05-19 *Enzymes of Polyamine Metabolism* Volume 715 highlights new advances in the field with this new volume presenting interesting chapters on topics such as Convergence of MYC and the hypusine circuits in the control of metabolism HDAC10 structure and enzymology TR FRET Assay for Profiling HDAC10 Inhibitors and PROTACs Polyamine Transport Inhibitors Methods and caveats associated with measuring polyamine uptake in mammalian cells Evaluation of platinum drug toxicity resulting from polyamine catabolism Measurements of acrolein adducts resulting from polyamine catabolism Alterations in polyamine metabolism induced by the pathogen *Helicobacter pylori* implications for gastric inflammation and carcinogenesis and much more Other sections delve into Molecular and biochemical analysis of eIF5A Analysis of in vivo SMOX activity Structure and role of ATP13A2 in polyamine transport Analysis of Translational Regulation Using Polysome Profiling and Puromycin Incorporation Targeting polyamine metabolism in an ex vivo prostatectomy model Development and characterization of a *Drosophila* model of SRS Monitoring ODC activity and polyamines in Bachmann Bupp syndrome patient biological samples Gene replacement therapy to restore polyamine metabolism Investigation of polyamine metabolism in bone homeostasis Collection preparation and biobanking of clinical specimens for polyamine analysis and many other topics Provides the latest information on biological research Offers outstanding and original reviews on a range of enzymes research topics Serves as an indispensable reference for researchers and students alike

Polyamines Kazutomo Imahori, 1985-12 The significance of polyamines in cell proliferation and carcinogenesis has stimulated further research interest in their biochemistry and metabolism These papers which update the available literature on polyamines are grouped into four main areas the metabolism of polyamines the effect of polyamines on cellular metabolism inhibitors of polyamine metabolism and their clinical relevance application to diagnosis and prognosis The Proceedings include contributions from a

wide range of research interests with special emphasis being placed on the clinical aspects of these compounds

Flavoprotein Protocols Steven K. Chapman, Graeme A. Reid, 2008-02-03 As a scientist with an interest in proteins you will at some time in your career isolate an enzyme that turns out to be yellow or perhaps you already have. Alternatively you may identify a polypeptide sequence that is related to known flavin containing proteins. This may or may not be your first encounter with flavoproteins. However even if you are an old hand in the field you may not have exploited the full range of experimental approaches applicable to the study of flavoproteins. We hope that Flavoprotein Protocols will encourage you to do so. In this volume we have sought to bring together a range of experimental methods of value to researchers with an interest in flavoproteins whether or not these researchers have experience in this area. A broad range of techniques from the everyday to the more specialized is described by scientists who are experts in their fields and who have extensive practical experience with flavoproteins. The wide range of approaches from wet chemistry to dry computation has as a consequence demanded a range of formats. Where appropriate particularly for analytical methods the protocol described is laid out in easy to follow steps. In other cases e.g. the more advanced spectroscopies and computational methods it is far more apt to describe the general approach and relevance of the methods. We hope this wide ranging approach will sow the seeds of many future collaborations between laboratories and further our knowledge and understanding of how flavoproteins work. Practical Cell

Analysis Dimitri Pappas, 2010-02-02 As analytical chemistry and biology move closer together biologists are performing increasingly sophisticated analytical techniques on cells. Chemists are also turning to cells as a relevant and important sample to study newly developed methods. Practical Cell Analysis provides techniques, hints and time saving tips explaining what may be common knowledge to one field but are often hidden or unknown to another. Within this practical guide the procedures and protocols for cell separation, handling cells on a microscope and for using cells in microfluidic devices are presented. Elements of cell culture are taken and combined with the practical advice necessary to maintain a cell lab and to handle cells properly during an analysis. The main chapters deal with the fundamentals and applied aspects of each technique with one complete chapter focusing on statistical considerations of analyzing cells. Many diagram based protocols for some of the more common cell processes are included. Chapter summaries and extensive tables are included so that key information can be looked up easily in the lab setting. Much like a good manual or cookbook this book is a useful practical guide and a handy reference for all students, researchers and practitioners involved in cellular analysis. *Progress in Polyamine*

Research V. Zappia, 2012-12-06 This book contains the scientific contributions presented at an International Symposium held in Sorrento, Italy, in June 1988 under the auspices of the University of Naples, the Italian Society of Biochemistry and the National Research Council. The modern history of polyamines dates back to 1958 when the Tabors and Rosenthal first described the outlines of their biological synthesis. From then on and particularly in the last ten years a veritable explosion of literature characterized by thousands of papers has witnessed the interest of the scientific community toward these

molecules Perhaps the old statement that polyamines are molecules in search of a function is no longer true today A large number of effects exerted by these simple molecules are well known and in many cases the mechanisms underlying these effects have been elucidated The first section of the volume is entirely devoted to the enzymology and molecular biology of ornithine decarboxylase Since its discovery by Gale more than forty years ago this can be considered among the most widely studied enzymes in biology and one of the most complex models in enzyme regulation The mechanism of control of the enzyme activity at the transcriptional post transcriptional and post translational levels as well as the fine regulation by antizyme are discussed in detail The second group of contributions deals with AdoMet decarboxylase propylamine transferase polyamine oxidase and the other enzymes related to polyamine interconversion and regeneration *Receptor Binding Techniques* Mary Keen,1999 This cutting edge collection of step by step experimental protocols demonstrates

Inhibition of Polyamine Metabolism Peter McCann,2012-12-02 Inhibition of Polyamine Metabolism Biological Significance and Basis for New Therapies provides an overview of the field concerning polyamine biosynthesis inhibitors The book is comprised of chapters which describe the compounds which are in use the rationale for the design of such inhibitors their synthesis and action their biological effects on mammalian cells and tissues plants and microorganisms including protozoal parasites and a review of the clinical experience with these inhibitors The major beneficial effect which the wide availability of these inhibitors has had on the field of polyamine research in general is likewise demonstrated Biochemists pharmacologist and cellular physiologists will find this text very useful **Polyamine Cell Signaling** Jian-Ying

Wang,2007-11-19 Polyamines are organic cations found in all eukaryotic cells and intimately involved in and required for distinct biological functions An increasing body of evidence indicates that the regulation of cellular polyamines is a central convergence point for the multiple signaling pathways driving various cellular functions Over the last decade considerable progress has been made in understanding the molecular functions of cellular polyamines These significant findings provide a fundamental basis to not only define the exact role of polyamines in physiology but also to develop new therapeutic approaches for cancers and other diseases The major objective of this book is to provide a timely and long lasting guide for investigators in the fields of polyamines physiology pharmacology and cancer research It will provide a foundation based on research and address the potential for subsequent applications in clinical practice Polyamine Cell Signaling Physiology Pharmacology and Cancer Research is divided into four main parts Part I Polyamines in Signal Transduction of Cell Proliferation Part II Polyamines in Cellular Signaling of Apoptosis Carcinogenesis and Cancer Therapy Part III Polyamines in Cell Motility and Cell Cell Interactions Part IV Polyamine Homeostasis and Transport This book not only covers the current state of the art findings relevant to cellular and molecular functions of polyamines but also provides the underlying conceptual basis and knowledge regarding potential therapeutic targeting of polyamines and polyamine metabolism These points are addressed by internationally recognized experts in their contributions to this book **Polyamines in Fungi** Laura

Valdes-Santiago, José Ruiz-Herrera, 2015-11-18 It was not until recent years that the study of polyamines their mechanisms of synthesis and the roles they play in metabolism have flourished becoming a fertile field of intense research Polyamines in Fungi Their Distribution Metabolism and Role in Cell Differentiation and Morphogenesis provides a complete overview of its topic It is the f Mechanisms of Drug Resistance in Neoplastic Cells Paul V. Woolley, Kenneth D. Tew, 2013-10-22 Bristol Myers Cancer Symposia Volume 9 Mechanisms of Drug Resistance in Neoplastic Cells provides information on both basic scientific and clinical studies on the causes and implications of tumor cell resistance to common antineoplastic agents The book describes the colon cancer as a model for resistance to antineoplastic drugs mathematical modeling of drug resistance and the mechanism of induced gene amplification in mammalian cells The text also discusses the cellular concomitants of multidrug resistance resistance to alkylating agents and the phosphoprotein and protein kinase C changes in human multidrug resistant cancer cells Novel drugs that affect glutathione metabolism the regulation of genes encoding drug metabolizing enzymes in normal and preneoplastic tissues and the relevance of glutathione S transferases to anticancer drug resistance are also considered The book further tackles the cellular resistance to cyclophosphamide the preclinical and clinical experiences with drug combinations designed to inhibit DNA repair in resistant human tumor cells and the modification of the cytotoxicity of DNA directed chemotherapeutic agents by polyamine depletion The text also demonstrates multidrug resistance and the circumvention of resistance Oncologists molecular biologists biochemists geneticists and pharmacologists will find the book invaluable *Polyamines in Plant Biotechnology, Food Nutrition and Human Health* Rubén Alcázar, Ana Margarida Fortes, Antonio F. Tiburcio, 2020-03-24 Advances in Virus Research , 1979-11-16 Advances in Virus Research Plant Polyamines Taku Takahashi, 2020-06-17 Polyamines are small organic compounds found in all living organisms In recent years there have been many exciting advances in our understanding of plant polyamines such as the determination of the biosynthetic and catabolic pathways of plant polyamines and the identification of the roles that plant polyamines play in cellular processes This Special Issue contains six original research papers and three review articles providing valuable insights and information for future polyamine related research Studies in Natural Products Chemistry Atta-ur-Rahman, 2012-07-13 Natural Product Chemistry continues to expand to exciting new frontiers of great importance in medicine Written by international authorities in various fields of natural product chemistry this latest volume in the well established series Studies in Natural Products Chemistry contains 23 chapters covering topics ranging from immunosuppressant and antimalarial compounds to bioactive substances useful in cancer and neural diseases This present volume will again be of great interest to research scientists and scholars working in the exciting field of new drug discovery Written by international authorities in the various fields of natural product chemistry Contains 23 comprehensive articles covering topics ranging from immunosuppressant and antimalarial compounds to bioactive substances useful in cancer and neural diseases Valuable source of information for research scientists and scholars in the field of new drug discovery

Biostimulants for Crop Production and Sustainable Agriculture Mirza Hasanuzzaman, Barbara

Hawrylak-Nowak, Tofazzal Islam, Masayuki Fujita, 2022-09-14 Agricultural biostimulants are a group of substances or microorganisms based on natural resources that are applied to plants or soils to improve nutrient uptake and plant growth and provide better tolerance to various stresses. Their function is to stimulate the natural processes of plants or to enrich the soil microbiome to improve plant growth, nutrition, abiotic and/or biotic stress tolerance, yield, and quality of crop plants. Interest in plant biostimulants has been on the rise over the past 10 years, driven by the growing interest of researchers and farmers in environmentally friendly tools for improved crop performance. Improved crop production technologies are urgently needed to meet the growing demand for food for the ever-increasing global population by addressing the impacts of changing climate on agriculture. This book is of interest to researchers in agriculture, agronomy, crop and plant science, soil science, and environmental science.

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