
**A
GUIDE
TO THE
POLYAMINES**

SEYMOUR S. COHEN

Guide To The Polyamines

Mohammad Pessarakli



Guide To The Polyamines:

A Guide to the Polyamines Seymour Stanley Cohen,1998 The polyamines are ubiquitous and essential organic cations in prokaryotic and eukaryotic cells This book is a comprehensive survey of the development of knowledge of their physiological and structural roles Currently the genetic and regulatory determinants of the amines and their cellular composition are being explored actively as parameters of normal physiology and aberrant pathologies Cancer virus infection and protozoan parasitism are major examples of the later groups Studies of the control of polyamine metabolism are providing important therapeutic leads Further the structural roles of the amines are being determined at molecular levels contributing to the understanding of polynucleotide and protein organization and interaction as well as to the solution of problems of genome transfer These subjects describe a burgeoning biochemical area involving compounds whose roles in cytoplasmic and nuclear function include numerous aspects of organelle structure polymer synthesis and interactions

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

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

Polyamine Metabolism in Disease and Polyamine-Targeted Therapies Tracy Murray-Stewart,2019-10-01 Polyamines are ubiquitous polycations essential for all

cellular life The most common polyamines in eukaryotes spermine spermidine and putrescine exist in millimolar intracellular concentrations that are tightly regulated through biosynthesis catabolism and transport Polyamines interact with and regulate negatively charged macromolecules including nucleic acids proteins and ion channels Accordingly alterations in polyamine metabolism affect cellular proliferation and survival through changes in gene expression and transcription translation autophagy oxidative stress and apoptosis Dysregulation of these multifaceted polyamine functions contribute to multiple disease processes thus their metabolism and function have been targeted for preventive or therapeutic intervention The correlation between elevated polyamine levels and cancer is well established and ornithine decarboxylase the rate limiting biosynthetic enzyme in the production of putrescine is a bona fide transcriptional target of the Myc oncogene Furthermore induced polyamine catabolism contributes to carcinogenesis that is associated with certain forms of chronic infection and or inflammation through the production of reactive oxygen species These and other characteristics specific to cancer cells have led to the development of polyamine based agents and inhibitors aimed at exploiting the polyamine metabolic pathway for chemotherapeutic and chemopreventive benefit In addition to cancer polyamines are involved in the pathologies of neurodegenerative diseases including Alzheimer s and Parkinson s parasitic and infectious diseases wound healing ischemia reperfusion injuries and certain age related conditions as polyamines are known to decrease with age As in cancer polyamine based therapies for these conditions are an area of active investigation With recent advances in immunotherapy interest has increased regarding polyamine associated modulation of immune responses as well as potential immunoregulation of polyamine metabolism the results of which could have relevance to multiple disease processes The goal of this Special Issue of Medical Sciences is to present the most recent advances in polyamine research as it relates to health disease and or therapy

Polyamines in Plant Biotechnology, Food Nutrition and Human Health Rubén Alcázar,Ana

Margarida Fortes,Antonio F. Tiburcio,2020-03-24 *Handbook of Plant and Crop Physiology* Mohammad

Pessarakli,2014-03-21 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology necessitating a new edition to cover the latest advances in the field Like its predecessors the Third Edition offers a unique complete collection of topics **Plant**

polyamines in stress and development Rubén Alcázar,Antonio F. Tiburcio,2014-10-24 Polyamines are small aliphatic polycations which have been involved in key stress and developmental processes in plants In the recent years compelling genetic and molecular evidences point to polyamines as essential metabolites required for resistance to drought freezing salinity oxidative stress among other type of abiotic and biotic stresses In addition to their role as stress protective compounds polyamines participate in key developmental processes mediated by specific signaling pathways or in cross regulation with other plant hormones Our Research Topic aims to integrate the multiple stress and developmental regulatory functions of polyamines in plants under a genetic molecular and evolutionary perspective with special focus on signaling

networks mechanisms of action and metabolism regulation 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 Methods for Studying Nucleic Acid/Drug Interactions Meni Wanunu,Yitzhak Tor,2011-12-20 Since most therapeutic efforts have been predominantly focused on pharmaceuticals that target proteins there is an unmet need to develop drugs that intercept cellular pathways that critically involve nucleic acids Progress in the discovery of nucleic acid binding drugs naturally relies on the availability of analytical methods that assess the efficacy and nature of interactions between nucleic acids and their putative ligands This progress can benefit tremendously from new methods that probe nucleic acid ligand interactions both rapidly and quantitatively A variety of novel methods for these studies have emerged in recent years and Methods for Studying DNA Drug Interactions highlights new and non conventional methods for exploring nucleic acid ligand interactions Designed to present drug developing companies with a survey of possible future techniques the book compares their drawbacks and advantages with respect to commonly used tools Perhaps more importantly this book was written to inspire young scientists to continue to advance these methods into fruition especially in light of current capabilities for assay miniaturization and enhanced sensitivity using microfluidics and nanomaterials **Polyamines** Tomonobu Kusano,Hideyuki Suzuki,2015-01-07 This book covers key topics in polyamine research from a range of organisms including plants mammals and prokaryotes such as bacteria and archaea The book provides an introduction to general concepts in the field of polyamine research as well as more detailed information With the availability of genome sequence data from a broad range of organisms the evolution of the genes involved in polyamine metabolism is discussed The mode of action of polyamines has been shown to be dependent on cation channels and this

mechanism is described in the book The origin of polyamine transporters from bacteria yeasts and plants is described The various effects of polyamines on growth and survival are also documented The book details the mechanisms of polyamine homeostasis and the role of polyamine molecules as precursors of secondary metabolites such as plant alkaloids and toxins derived from spiders and wasps The role of polyamines in longevity and disease is discussed A link between polyamine contents and cancer progression is reported as is the use of polyamine metabolites as diagnostic markers in the initial stages of cancer Moreover a novel approach that utilizes the polyamine pathway of a parasite as a drug target in African sleeping sickness is described Therefore this book is a valuable resource both as a textbook for undergraduate and graduate students and also as a reference book for front line polyamine researchers *Apicomplexan Parasites* Katja Becker,2011-01-19 This handbook is the first dealing with the discovery of drugs directed against apicomplexan parasites Amongst others this group of endoparasites includes the causative agents of Malaria Toxoplasmosis and Babesiosis the latter occurring mainly in animals Written by renowned scientific experts from academia and industry the book focuses on current drug development approaches for all apicomplexan diseases making it appealing to a large audience ranging from research labs in academia to the human and veterinarian pharmaceutical industry This work is the second volume of the new book series Drug Discovery in Infectious Diseases edited by Prof Dr Paul M Selzer *New-Generation Bioinorganic Complexes* Renata Jastrzab,Bartosz Tylkowski,2016-03-21 Bio Inorganic compounds are successfully applied as therapeutic agents since decades Thus scientist designed new metal complexes bearing biomolecules as ligands investigating their potential as bioactive and therapeutic agents This book presents a comprehensive overview on materials design substance classes and their characterization This book is compiled for scientists interested in medical application of bioinspired materials *Biology and Biotechnology of the Plant Hormone Ethylene III* Miguel Vendrell,2003 **Gastrointestinal Mucosal Repair and Experimental Therapeutics** Chi-Hin Cho,Jian-Ying Wang,2002-01-01 Over the last decade considerable progress has been made in understanding cellular and molecular mechanisms involved in gastrointestinal mucosal injury and repair These findings provide the basis to identify the etiology and pathogenesis of various gut mucosal injury related diseases and to develop new therapeutic approaches The publication at hand is divided into three sections Epithelial restitution mucosal repair and ulcer healing and experimental therapeutics The first part highlights the early rapid mucosal restitution focussing on the roles of extracellular matrix cytoskeleton cytokines Ca² signaling polyamines and the protein kinase C DAG pathways The next section deals with aspects of chronic mucosal healing concentrating on the roles of primary response gene expression angiogenesis and angiogenic growth factors platelets and the mechanisms of cell renewal after injury in special circumstances The last part explores new therapeutic approaches stressing potential clinical applications of nitric oxide releasing agents polysaccharides nitric oxide synthase modulators growth factors prostaglandins and cyclooxygenase inhibitors Covering the current state of the art findings relevant to gut mucosal injury and repair as well as providing the underlying conceptual basis and knowledge

regarding experimental therapeutics for gastrointestinal mucosal injury related diseases this publication will be a timely guide for investigators working in the field **Annual Plant Reviews, The Plant Hormone Ethylene** Michael T. McManus, 2012-02-08 The plant hormone ethylene is one of the most important being one of the first chemicals to be determined as a naturally occurring growth regulator and influencer of plant development It was also the first hormone for which significant evidence was found for the presence of receptors This important new volume in Annual Plant Reviews is broadly divided into three parts The first part covers the biosynthesis of ethylene and includes chapters on S-adenosylmethionine and the formation and fate of ACC in plant cells The second part of the volume covers ethylene signaling including the perception of ethylene by plant cells CTR proteins MAP kinases and EIN2 EIN3 The final part covers the control by ethylene of cell function and development including seed development germination plant growth cell separation fruit ripening senescent processes and plant pathogen interactions The Plant Hormone Ethylene is an extremely valuable addition to Wiley Blackwell's Annual Plant Reviews With contributions from many of the world's leading researchers in ethylene and edited by Professor Michael McManus of Massey University this volume will be of great use and interest to a wide range of plant scientists biochemists and chemists All universities and research establishments where plant sciences biochemistry chemistry life sciences and agriculture are studied and taught should have access to this important volume

Combinatorial Chemistry on Solid Supports Stefan Braese, 2007-06-23 With contributions by numerous experts

Embryogenesis Ken-Ichi Sato, 2012-04-20 The book Embryogenesis is a compilation of cutting edge views of current trends in modern developmental biology focusing on gametogenesis fertilization early and or late embryogenesis in animals plants and some other small organisms Each of 27 chapters contributed from the authorships of world wide 20 countries provides an introduction as well as an in depth review to classical as well as contemporary problems that challenge to understand how living organisms are born grow and reproduce at the levels from molecule and cell to individual **Plant Performance Under Environmental Stress** Azamal Husen, 2021-08-23 Global climate change is bound to create a number of abiotic and biotic stresses in the environment which would affect the overall growth and productivity of plants Like other living beings plants have the ability to protect themselves by evolving various mechanisms against stresses despite being sessile in nature They manage to withstand extremes of temperature drought flooding salinity heavy metals atmospheric pollution toxic chemicals and a variety of living organisms especially viruses bacteria fungi nematodes insects and arachnids and weeds Incidence of abiotic stresses may alter the plant pest interactions by enhancing susceptibility of plants to pathogenic organisms These interactions often change plant response to abiotic stresses Plant growth regulators modulate plant responses to biotic and abiotic stresses and regulate their growth and developmental cascades A number of physiological and molecular processes that act together in a complex regulatory network further manage these responses Crosstalk between autophagy and hormones also occurs to develop tolerance in plants towards multiple abiotic stresses

Similarly biostimulants in combination with correct agronomic practices have shown beneficial effects on plant metabolism due to the hormonal activity that stimulates different metabolic pathways At the same time they reduce the use of agrochemicals and impart tolerance to biotic and abiotic stress Further the use of bio and nano fertilizers seem to hold promise to improve the nutrient use efficiency and hence the plant yield under stressful environments It has also been shown that the seed priming agents impart stress tolerance Additionally tolerance or resistance to stress may also be induced by using specific chemical compounds such as polyamines proline glycine betaine hydrogen sulfide silicon aminobutyric acid aminobutyric acid and so on This book discusses the advances in plant performance under stressful conditions It should be very useful to graduate students researchers and scientists in the fields of botanical science crop science agriculture horticulture ecological and environmental science **Advances in Plant Physiology (Vol. 11) A.**

Hemantaranjan,2009-01-01 The configuration of Volume 11 of the International Treatise Series has been absolutely due to praiseworthy contributions from Scientists of global eminence This programme has been undertaken with a view to reinforce the indistinguishable efforts to recognize the outcome of scrupulous research in some of the very rational and stirring areas of Environmental and Molecular Physiology of Plants In order to sustain and further advance it is committed to maintain the originality and the introduction of novel ideas ensuring that the treatise welcomes the best science done across the full extent of modern plant biology in general and plant physiology in particular Indeed within the time span of twelve years this treatise has been duly recognized through Current Book Contents and other academic periodicals in the minds of distinguished readers and has beyond doubt achieved the international status It is reiterated that in spite of handiness of quick accessibility of vast literature from internet this treatise series in the field of life sciences has been realized over and above to be like a true guide friend and philosopher continually enlightening the most hidden perceptible nerves of an individual worker which is beyond the competence of mere internet web service It is glory to record that in Volume 11 with inventive applied research attempts have been made to bring together much needed fifteen review articles by Fifty eight contributors from Brazil China Egypt France Germany India Switzerland and Tunisia duly evaluated by Consulting Editors of international stature from India U K U S A Argentina Australia France Germany Japan Spain Portugal Israel and Morocco and rationally disseminated in Seven Sections Creditably in this volume over five important reviews belong to the field of Environmental Stresses besides covering significant areas of research In genuineness the treatise is an achievement for interdisciplinary exchange of information It would be extremely a significant book and a voluminous reference material for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Biology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany besides fulfilling needs for research teams and scientists engaged in various facets of research in Molecular Physiology and Biology of Plants in traditional and agricultural

universities institutes and research laboratories throughout the world **Fundamentals of Bacterial Physiology and Metabolism** Rani Gupta, Namita Gupta, 2021-04-20 This book provides useful information on microbial physiology and metabolism The key aspects covered are prokaryotic diversity growth physiology basic metabolic pathways and their regulation metabolic diversity with details of various unique pathways Another focus area is stress physiology with details on varying environmental stresses signal transduction adaptation and survival For instructional purposes the book provides case studies interesting facts techniques etc which help in showcasing the inter disciplinary nature and bridge the gap between various aspects of applied microbiology

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