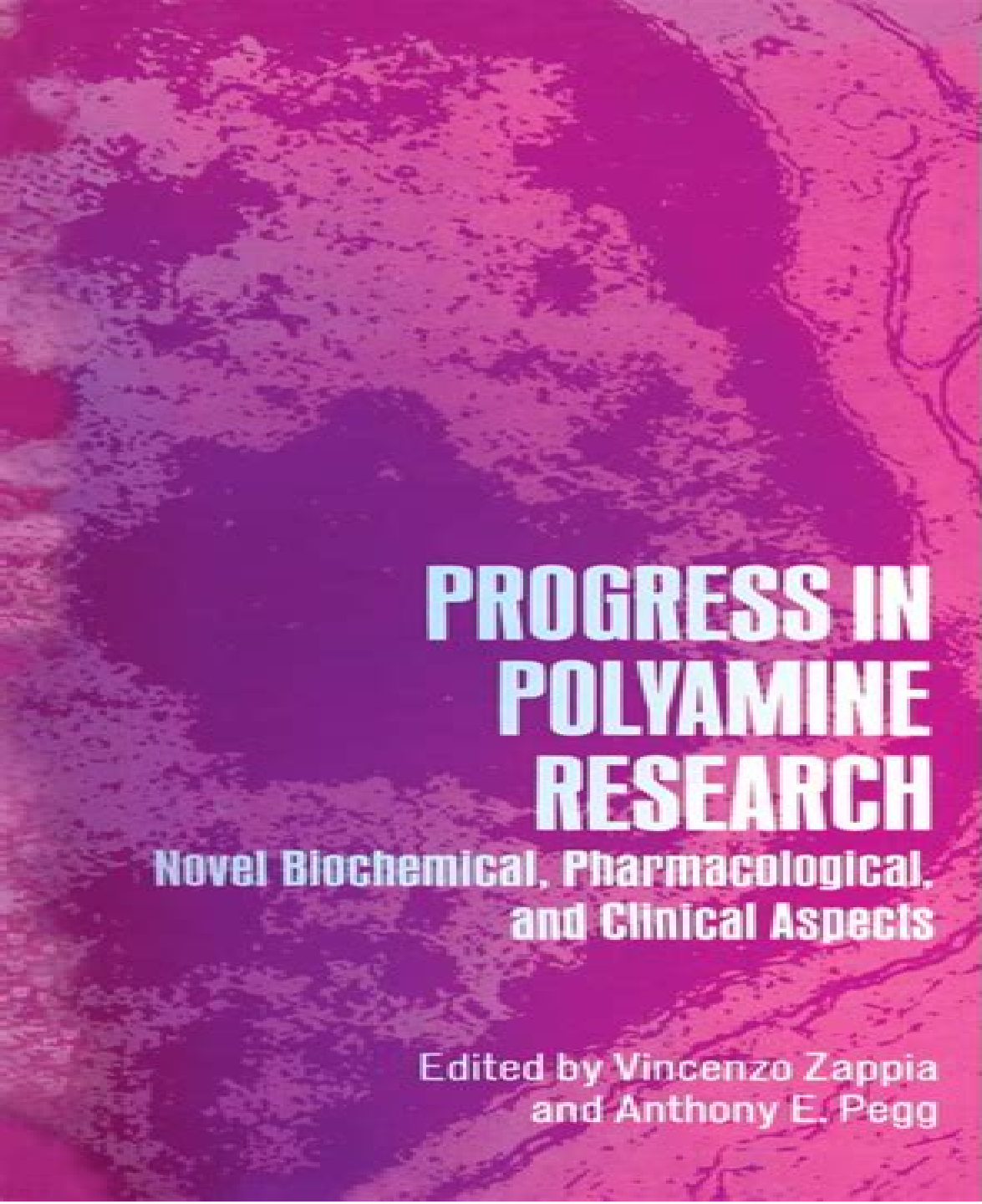


The background of the cover is a high-magnification electron micrograph showing a cross-section of a cell membrane. The membrane is depicted as a complex, wavy structure with various internal folds and vesicles. The image is in grayscale, with the membrane appearing as a lighter, more textured region against a darker background.

ADVANCES IN
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Volume 250

PROGRESS IN POLYAMINE RESEARCH

**Novel Biochemical, Pharmacological,
and Clinical Aspects**

Edited by Vincenzo Zappia
and Anthony E. Pegg

Recent Progress On Polyamine Research

Antonio Perin



Recent Progreb On Polyamine Research:

Recent Progress in Polyamine Research L. Selmeci, M. E. Brosnan, Nikolaus Seiler, 1985 *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 veri table 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 wi th AdoMet decarboxylase propylamine transferase polyamine oxidase and the other enzymes related to polyamine interconversion and regeneration **Advances in Polyamine Research** Advances in Polyamine Research Staff, **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 [Advances in polyamine research](#) ,1983 **Advances in Polyamine Research** Robert A. Campbell, 1978 **Polyamines** Anthony E. Pegg, Robert A. Casero, Jr., 2011-02-21 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*TM 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 *Progress in Polyamine Research* Vincenzo Zappia, Anthony E. Pegg, 1988

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 **Progress in Polyamine Research** Società italiana di

biochimica. Italian Study Group, **Advances in Polyamine Research** Robert A. Campbell, 1978 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 **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 Perspectives in Polyamine Research Antonio Perin, 1988 *The Physiology of Polyamines* Uriel Bachrach, Yair M. Heimer, 1989-03-31 The state of the art in the area of polyamines is presented in this useful two volume publication Basic information describing the role of polyamines in the processes of growth and differentiation is given Also included are data on the regulation of polyamine biosynthesis and metabolism and their interactions with nucleic acids Several chapters are devoted to the role of polyamines in various aspects of plant biology with a special emphasis on their participation in the response of plants to extreme environments Special attention is given to the use of inhibitors of polyamine biosynthesis as potential antitumor and antiproliferative agents Additionally recent progress in the molecular biology and genetic engineering of genes coding for polyamine biosynthetic enzymes is described Cancer researchers biologists geneticists biochemists physiologists and clinicians will find this volume indispensable Contents VOLUME II POLYAMINES IN MICROBES Polyamines and the Growth of Bacteria and Viruses Polyamines in Thermophiles Propylamine Transfer Reactions in Thermophilic Archaeobacteria Enzymological Aspects and Comparative Biochemistry Microbial Mutants Deficient in Polyamine Synthesis Regulation of the Putrescine Biosynthetic Genes SpeA speB and speC in Escherichia coli Utilization of L Arginine L Ornithine Agmatine and Putrescine as the Major Source of Nitrogen and Its Control in Escherichia coli POLYAMINES AND PLANTS Polyamines and Plant Response to Stress Polyamines and Plant Growth and Development Polyamines and Plant Hormones Polyamines in Plant Mutants POLYAMINES AND DISEASES Polyamines in Health and

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Polyamines are ubiquitous molecules that are involved in a number of important cellular processes Aberrations in their function or metabolism play a role in diseases such as cancer and parasitic infection A number of validated drug targets have been identified including enzymes in the polyamine biosynthetic and catabolic pathways and the S adenosylmethionine synthetic and salvage pathways Polyamine Drug Discovery is the first comprehensive volume to cover all aspects of the design and development of potential therapeutics targeting polyamine metabolism The book details research progress from 1975 to the present date and discusses the design and use of polyamine metabolism inhibitors as therapeutic agents Various polyamine containing drugs are described that can be used in chemotherapy and as treatments for infections including trypanosomiasis leishmaniasis and malaria Finally the roles of polyamine analogues in chemoprevention polyamine containing vectors for gene delivery and the design of polyamine based epigenetic modulators are detailed Each chapter addresses a different aspect of polyamine drug discovery and all are written by medicinal and biological chemists with

particular expertise in developing agents that modulate polyamine metabolism or function The book will increase the visibility of polyamine drug discovery among pharmaceutical researchers and provide a valuable reference for everyone working in the field *Progress in Polyamine Research* ,1992

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