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Polyamines In Biology And Medicine

Puja Mehta

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Polyamines in Biology and Medicine David R. Morris, Laurence J. Marton, 1981 **The Physiology of Polyamines, Volume I** Uriel Bachrach, Yair M. Heimer, 2021-05-30 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 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 *Proceedings of the Society for Experimental Biology and Medicine* Society for Experimental Biology and Medicine (New York, N.Y.), 1903 List of members in each volume **Monovalent Cations in Biological Systems** Charles A. Pasternak, 2024-12-06 This unique volume provides an integrated overview of the subject of monovalent cations specifically aimed at students and researchers It is divided into two parts the first deals with the processes by which monovalent cations are transported across biological membranes the second deals with the processes that are affected by changes in intracellular cations Each chapter describes in simple biochemical terms the interaction between one or more monovalent cations and a particular biological system of importance to current understanding of body function in health and disease This useful publication is invaluable to students and researchers in biochemistry physiology neurology pharmacology anesthesiology cardio pulmonology hematology laboratory medicine endocrinology gastroenterology internal medicine psychiatry urology biomedical physics and medical nutrition **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), Biochemistry of S-adenosylmethionine and Related Compounds Earl Usdin, 2016-01-01 **The Prostate as an Endocrine Gland** Richard J. Ablin, Wells E. Farnsworth, 1989-11-30 This unique publication illustrates that the prostate elaborates an array of local hormones or autoids and how these influence prostatic growth function and oncogenesis It describes how familiarity with these participants and how they effect the character and direction of prostatic function may suggest diagnostic markers of malfunction and new sites and modes of therapeutic intervention The catholic scope and authorship of the work seeks to integrate the views of those urologists reproductive physiologists and endocrinologists who presently work with the prostate It attempts to show all other biologists the full range of the gland s activities and participating molecules Included are oncogenes mitogens polyamines prostaglandins growth factors antigens and the familiar steroid peptide and protein hormones This volume is unique in its point of view and in the new concepts it presents Addressed are actions of spermine binding protein and osteoblastic mitogens consequences of inhibin thyrotropin releasing hormone balance and urokinase

effects Covered also are androgen modulation of vasoactive intestinal polypeptides evidence of a prostatolymphoreticular system secretion of dihydrotestosterone and a model of the inter dependence of prostatic epithelium and stroma This unique new volume is of great value to those in urology internal medicine physiology endocrinology and pharmacology *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 **Liquid Chromatographic Analysis of Diamine and Polyamines in Biological Samples** Hsian-Kang Lee,1983 **Biotechnology And Biological Frontiers** Philip H Abelson,2019-03-04 Split into two sections Part I of this volume from Science is devoted to a broad sampling of the status of a revolution in applied biology The emphasis of Part II in this volume is fundamental research rather than techniques or practical applications

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Structure and Functions of Amine Oxidases** Bruno Mondovi,2018-01-10 A good portion of this book has been devoted to the copper dependent enzymes these being the more numerous The chapter dealing with serum amine oxidases also focuses attention on their catalytic mechanism as these enzymes have been studied in greater depth As the presentation of topics whose experimental basis is rapidly developing is likely to stimulate the reader s interest many bibliographic references have been included Readers could find this book poor as far as many topics are dealt with in a relatively little space but we believe it essential to trace the background of our present knowledge in the field of amine oxidases stressing the future outlook of research on these enzymes for they are becoming more and more important in general and medical biochemistry The Role of Polyamines in Hormonally Stimulated Bone Resorption Rita L. Cohen Lucas,1989 *Chemical and Cellular Architecture* Abel Lajtha,2013-04-18 After the completion of the first edition of this series this editor thought that a new edition would not be warranted in less than IS perhaps 20 years but it seems that we live in a time in which rapid changes are the norm and findings in a field such as neurochemistry develop exponentially The task of a future editor attempting to get a comprehensive neurochemical handbook for the year 2000 would be even less enviable but by then information processing may be very different The approach the design and the areas covered by each volume and each chapter are necessarily arbitrary and it is likely that other editors or authors would have approached the coverage or the organization in a different manner It is hoped however that readers will find the series helpful for beginning or for continuing work There may be some overlap among the various chapters but insisting on single coverage of an area would at times have restricted

treatment to only one point of view and might have truncated and hurt the logical flow of some of the chapters

Chemical Carcinogenesis Francisco Feo, Paolo Pani, 2013-11-11 About two centuries after the communication by Sir Percival Pott that the chimney sweeper disease was a cancer and its suggestion that active compounds of soot were the causative agents and about one century after the description of urinary bladder cancer in dye workers an enormous number of substances have been synthesized and have probably come into contact with man Research in cancer prevention is of primary importance and may receive continuous support from new discoveries on cancer etiology and pathogenesis If one accepts the multistage model of chemical carcinogenesis one has also to accept that many events occur between the contact of carcinogenic compounds and their specific targets and the development of a clinically recognizable neoplasm Thus animal studies become essential to elucidate the different steps by which chemical carcinogens induce neoplasia The analysis of these steps and the comparative evaluation of experimental models is essential to an understanding of pathogenesis

Mechanisms of Cancer Metastasis Kenneth V. Honn, William E. Powers, Bonnie F. Sloane, 2012-12-06 The past twenty years have witnessed significant advances in the treatment of cancer by surgery and radiation therapy Gains with cytotoxic chemotherapy have been much more modest Of the approximately 900 000 newly diagnosed cases of cancer each year 50010 result in death of the patient The primary cause of these deaths is metastasis Although the term metastasis was first coined by Recamier in 1829 only in the past ten years have there been intensive scientific investigations into the mechanisms by which tumor cells metastasize What has emerged is a complex process of host tumor cell interactions which has been termed the metastatic cascade Due to the complexity of the metastatic process the study of metastasis is multifaceted and involves elements of such areas as differentiation enzymology genetics hematology immunology membrane biochemistry and molecular biology The major objectives of this book were to present the most recent advances in our understanding of how tumor cells metastasize to secondary sites by the leading experts in the biology of tumor invasion and metastasis We hope that this book will lead to new concepts for the treatment of subclinical metastatic cancer The chapters in this book address both the basic science of metastasis and potential clinical therapies directed toward interruption of the metastatic cascade or toward eradication of subclinical metastases Many relevant topics have been omitted due to space considerations and thus the topics included reflect the prejudices of the editors

Brain Tumor Therapy M. L. Rosenblum, 1984

Selected Topics from Neurochemistry Neville N. Osborne, 2013-10-22 This book contains up dated versions of articles which proved very popular when first published in *Neurochemistry International* The articles draw attention to developments in a specific field perhaps unfamiliar to the reader collating observations from a wide area which seem to point in a new direction giving the author's personal view on a controversial topic or directing soundly based criticism at some widely held dogma or widely used technique in the neurosciences

Journal of the National Cancer Institute, 1985-04

Cancer Chemotherapy and Selective Drug Development K.R. Harrap, W. Davis, A.H. Calvert, 2012-12-06 Over the past 30 years many significant advances have

been made in the management of a number of disseminated malignant diseases. The prognosis for diseases such as childhood leukaemia, choriocarcinoma and Hodgkin's disease has gradually been transformed as better anti-tumour agents have become available and their clinical use has been refined. During the past 10 years the advent of new agents, particularly cisplatin, bleomycin and the podophyllotoxins, has allowed the cure of disseminated testicular tumours. This degree of success has not, however, been achieved in the case of a number of other common cancers. Ovarian carcinoma is tantalisingly chemosensitive and although there are long-term survivors from disseminated disease, these are only a small proportion of the total. Breast cancer, although sensitive to a multitude of drugs, appears to have yielded neither survival benefit nor cure to the efforts of therapists, while tumours such as those of the colon remain stubbornly unresponsive. Against this backdrop it is apparent that additional, more selective treatments are needed if further impact is to be made on the problem of cancer. The development of such agents requires the integration of a multidisciplinary effort encompassing the fields of chemistry, biology and medicine. This symposium provided a forum for clinical and preclinical scientists where current aspects of cancer treatment were reviewed and approaches to the development of a new generation of more selective anticancer drugs discussed.

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