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# POLYAMINES IN CANCER: BASIC MECHANISMS AND CLINICAL APPROACHES

Kenji Nishioka



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# Polyamines In Cancer Basic Mechanisms And Clinical Approaches

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## **Polyamines In Cancer Basic Mechanisms And Clinical Approaches:**

**Polyamines in Cancer** Kenji Nishioka,1996      **Polyamines in Cancer** Kenji Nishioka,K Nishioka,1996

**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

**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 Drug Discovery Patrick Woster,Robert Casero,2011-11-07 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     *Advances In Plant*

*Physiology (Vol. 6)* A. Hemantaranjan, 2003-11-01 The publication of Volume 6 of the International Treatise Series on Advances in Plant Physiology has been feasible exclusively and unquestionably due to commendable contributions from World Scientists of distinction in explicit fields within eight years the treatise series has been instituted in the spirits and compassion of illustrious readers all through the world The proficient International and National Co ordinators have all along unified their views for the expediency of readers assisting them to speed up important research work in the field of Plant and Crop Physiology Biochemistry Plant Molecular Biology 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 everlastingly enlightening the most hidden perceptible nerves of an individual worker which is beyond the competence of mere web services The volume 8 is absolutely another one of its kinds for incorporation of most timely and important worthy reviews of diverse objectives contributed by forty four well informed admirable and documented scientists stalwarts of which twenty three participated from abroad The original writing coming in bounteous journals of international repute covering new technologies and tools in plant science research have been pulled together in affirmative prolific and supportive manner by specialists all over the globe In this volume efforts have been made to fetch together twenty one indispensable review articles duly evaluated by the respective Consulting Editors of international stature from India U K U S A Argentina Australia France Germany Japan Spain Portugal Israel and Morocco and rationally distributed in eight sections Indeed the treatise is wealth for interdisciplinary exchange of information Apart from fulfilling need of this kind of exclusive edition in different volumes for research teams in Molecular Plant Physiology and Biochemistry in traditional and agricultural universities institutes and research laboratories throughout the world it would be extremely a constructive 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 Indeed the treatise is wealth for interdisciplinary exchange of information Apart from fulfilling need of this kind of exclusive edition in different volumes for research teams in Molecular Plant Physiology and Biochemistry in traditional and agricultural

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**Cancer Chemoprevention** Gary J. Kelloff, Ernest T. Hawk, Caroline C. Sigman, 2004-06-04 Accompanying CD ROM in pocket at end of v 2 contains a compact e book version of v 2

**Prostate Cancer: Basic Mechanisms And Therapeutic Approaches** Chawnshang Chang, 2005-03-22 Prostate cancer is the second leading cause of death in men and its progression is highly dependent on androgens and androgen receptors However even with treatment eventually most prostate cancers progress Studies of the mechanisms behind this progression leads to advances in treatments for androgen related diseases Our book discusses recent prostate cancer research which includes the following topics immunotherapy and chemotherapy radiation gene hormonal and androgen ablation therapies basic mechanisms behind prostate cancer growth how mechanisms can be used to treat prostate cancer and research in newly developed mouse model systems This book should be of interest as both a study guide and research reference to students basic scientists and clinicians

**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

**Progress in Drug Research** Ernst Jucker, 2012-12-06 Nikolaus Seiler Benoit Duranton and Francis Raul The polyamine oxidase inactivator MDL 72527 Zhi Hong and Craig E Cameron Pleiotropic mechanisms of ribavirin antiviral activities Jie Hong Hu and Charles Krieger Protein phosphorylation networks in motor neuron death James O Schenk The functioning neuronal transporter for dopamine kinetic mechanisms and effects of amphetamines cocaine and methylphenidate Laszlo Prokai Central nervous system effects of thyrotropin releasing hormone and ist analogues opportunities and perspectives for drug discovery and development David F Horrobin A new category of psychotropic drugs neuroactive lipids as exemplified by ethyl eicosapentaenoate E E Suprabhat Ray Reema Rastogi and Atul Kumar Current status of estrogen receptors

**RNA Binding Proteins** Kathryn Sandberg, Susan E. Mulroney, 2013-03-09 RNA binding proteins are an exciting area of research in gene regulation A multitude of RNA protein interactions are used to regulate gene expression including pre mRNA splicing polyadenylation editing transport cytoplasmic targeting translation and mRNA turnover In addition to these post transcriptional processes RNA protein interactions play a key role in transcription as illustrated by the life cycle of retroviruses Unlike DNA the structure of RNA is highly variable and conformationally flexible thus creating a number of unique binding sites and the potential for complex regulation by RNA binding proteins Although

there is a wide range of topics included in this volume general themes have been repeated highlighting the overall integrative nature of RNA binding proteins The chapters have been separated into three different sections Translational Control mRNA Metabolism and Hormonal and Homeostatic Regulation The chapters of this volume were written with the seasoned investigator and student in mind Summaries of key concepts are reviewed within each chapter as well as guiding questions that can be used to stimulate class discussions The Editors of this volume hope that this compendium educates enthralls and stimulates the readers to look to the future possibilities in this rapidly evolving field Plant peroxidases biochemistry and physiology J. N. Rodríguez López, M. A. Pedreño, 2003-05-12 Plant Peroxidases Biochemistry and Physiology recoge los últimos avances en el campo de las peroxidasas vegetales Las peroxidasas son un grupo de enzimas que se encuentran ampliamente distribuidas en toda la escala filogenética y catalizan la oxidación de un amplio número de sustratos orgánicos e inorgánicos utilizando el poder oxidante del peróxido de hidrógeno Además de su interés académico y fisiológico estas enzimas son ampliamente utilizadas en laboratorios clínicos y en la industria El presente libro consta de 47 artículos de investigación en los que se tratan diversos aspectos de las peroxidasas como su estructura enzimológica genética fisiológica localización y aplicaciones Las aportaciones a este libro han sido realizadas por especialistas de todo el mundo que se reunieron en Murcia en el año 2002 durante el Congreso titulado VI International Plant Peroxidase Symposium

**Cumulated Index Medicus** ,1972      **Cancer Research** ,1997      Anticancer Research ,2006      *Whitaker's Books in Print* ,1998      **International Books in Print** ,1990      **Subject Guide to Books in Print** ,1997      *American Book Publishing Record* ,1997-05      *Medical and Health Care Books and Serials in Print* ,1997

Polyamines In Cancer Basic Mechanisms And Clinical Approaches: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Polyamines In Cancer Basic Mechanisms And Clinical Approaches : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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