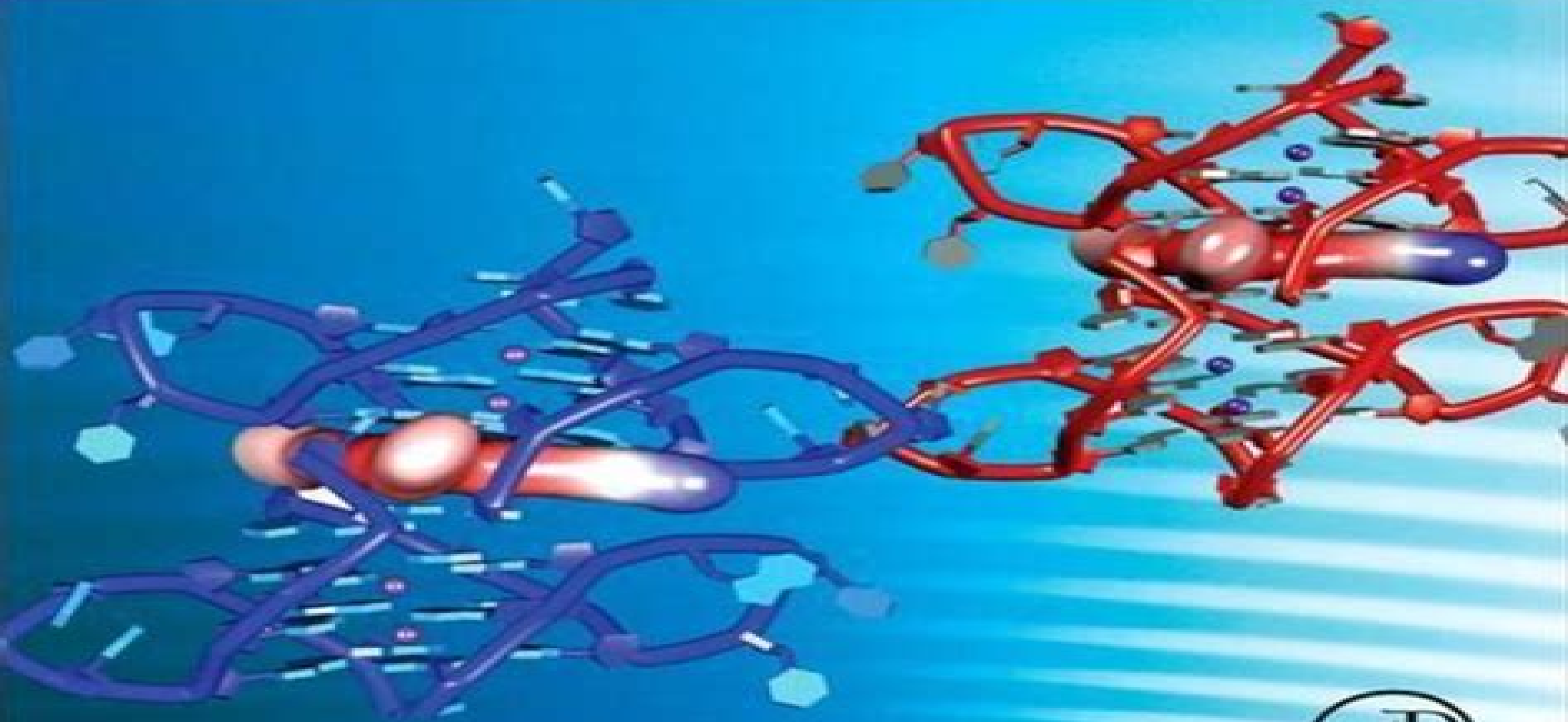


THERAPEUTIC APPLICATIONS OF QUADRUPLEX NUCLEIC ACIDS



STEPHEN NEIDLE



Therapeutic Applications Of Quadruplex Nucleic Acids

Tamar Schlick



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Therapeutic Applications of Quadruplex Nucleic Acids Stephen Neidle, 2011-09-19 Therapeutic applications of quadruplex nucleic acids provides a single comprehensive survey that describes and assesses recent advances in quadruplex therapeutics and targeting strategies It also covers the underlying fundamentals of such topics as quadruplex structure small molecule recognition biological roles of genomic quadruplexes and quadruplex informatics P 4 of cover *Handbook of Chemical Biology of Nucleic Acids* Naoki Sugimoto, 2023-07-29 This handbook is the first to comprehensively cover nucleic acids from fundamentals to recent advances and applications It is divided into 10 sections where authors present not only basic knowledge but also recent research Each section consists of extensive review chapters covering the chemistry biology and biophysics of nucleic acids as well as their applications in molecular medicine biotechnology and nanotechnology All sections within this book are Physical Chemistry of Nucleic Acids Section Editor Prof Roland Winter Structural Chemistry of Nucleic Acids Section Editor Prof Janez Plavec Organic Chemistry of Nucleic Acids Section Editor Prof Piet Herdewijn Ligand Chemistry of Nucleic Acids Section Editor Prof Marie Paule Teulade Fichou Nucleic Acids and Gene Expression Section Editor Prof Cynthia Burrows Analytical Methods and Applications of Nucleic Acids Section Editor Prof Chaoyong Yang Nanotechnology and Nanomaterial Biology of Nucleic Acids Section Editor Prof Zhen Xi Nucleic Acids Therapeutics Section Editor Prof Katherine Seley Radtke Biotechnology and Synthetic Biology of Nucleic Acids Section Editor Prof Eriks Rozners Functional Nucleic Acids Section Editor Prof Keith R Fox The handbook is edited by outstanding leaders with contributions written by international renowned experts It is a valuable resource not only for researchers but also graduate students working in areas related to nucleic acids who would like to learn more about their important role and potential applications

G-quadruplex and Microorganisms Sara N. Richter, 2019-08-19 G quadruplexes G4s are nucleic acids secondary structures that form in DNA or RNA guanine G rich strands In recent years the presence of G4s in microorganisms has attracted increasing interest In prokaryotes G4 sequences have been reported in several human pathogens Bacterial enzymes able to process G4s have been identified In viruses G4s have been suggested to be involved in key steps of the viral life cycle They have been associated with the human immunodeficiency virus HIV herpes simplex virus 1 HSV 1 human papilloma virus swine pseudorabies virus and other viruses genomes New evidence shows the presence of G4s in parasitic protozoa such as the causative agent of malaria G4 binding proteins and mRNA G4s have been implicated in the regulation of microorganisms genome replication and translation G4 ligands have been developed and tested both as tools to study the complexity of G4 mediated mechanisms in the viral life cycle and as therapeutic agents Moreover new techniques to study G4 folding and their interactions with proteins have been developed This Special Issue will focus on G4s present in microorganisms addressing all the above aspects

Interplay between Metal Ions and Nucleic Acids Astrid Sigel, Helmut Sigel, Roland KO Sigel, 2012-01-02 Interplay between Metal Ions and Nucleic Acids provides in an authoritative

and timely manner in 12 stimulating chapters written by 24 internationally recognized experts from 8 nations and supported by nearly 1500 references about 20 tables and 125 illustrations many in color a most up to date view on metal ion nucleic acid interactions the characterization of which is covered in solution and in the solid state The volume concentrates on modern developments encompassing topics in the wide range from G quadruplexes via DNAzymes catalysis at the DNA scaffold and metal mediated base pairs to peptide nucleic acids PNAs being thus of relevance e g for chemistry and nanotechnology but also for molecular biology and genetic diagnostics

Biomedical Applications of Acridines Jan Ježek, Jan Hlaváček, Jaroslav Šebestík, 2017-08-15 This book describes applications of acridines for the treatment of various neurodegenerative diseases such as Alzheimer's disease Parkinson's disease and various prion diseases and discusses the potential of acridines in neuro regenerative medicine Using modern data mining software it presents structures of acridines with nucleic acids and proteins and compares them with the native structures Furthermore the book presents modern methods of acridine synthesis comparing them with the most useful conventional methods Acridines interact with both nucleic acids and proteins and due to their direct interactions with various enzymes they can be suitable for the treatment of neurodegenerative diseases inflammation immunological disorders and protozoal diseases The characteristic spectral properties of acridines can be employed in labeling proteins nucleic acids lipids and even cells and their compartments Moreover they can be applied in photodynamic therapy

Electrochemical Immunosensors and Aptasensors Paolo Ugo, Ligia M. Moretto, 2018-03-23 This book is a printed edition of the Special Issue Electrochemical Immunosensors and Aptasensors that was published in Chemosensors

Innovations in Biomolecular Modeling and Simulations Tamar Schlick, 2012 The chemical and biological sciences face unprecedented opportunities in the 21st century A confluence of factors from parallel universes advances in experimental techniques in biomolecular structure determination progress in theoretical modeling and simulation for large biological systems and breakthroughs in computer technology has opened new avenues of opportunity as never before Now experimental data can be interpreted and further analysed by modeling and predictions from any approach can be tested and advanced through companion methodologies and technologies This two volume set describes innovations in biomolecular modeling and simulation in both the algorithmic and application fronts With contributions from experts in the field the books describe progress and innovation in areas including simulation algorithms for dynamics and enhanced configurational sampling force field development implicit solvation models coarse grained models quantum mechanical simulations protein folding DNA polymerase mechanisms nucleic acid complexes and simulations RNA structure analysis and design and other important topics in structural biology modeling The books are aimed at graduate students and experts in structural biology and chemistry and the emphasis is on reporting innovative new approaches rather than providing comprehensive reviews on each subject

Medicinal Chemistry Approaches to Personalized Medicine Karen Lackey, Bruce Roth, 2013-11-22 Edited by two renowned medicinal chemists who have pioneered the development of

personalized therapies in their respective fields this authoritative analysis of what is already possible is the first of its kind and the only one to focus on drug development issues Numerous case studies from the first generation of personalized drugs are presented highlighting the challenges and opportunities for pharmaceutical development While the majority of these examples are taken from the field of cancer treatment other key emerging areas such as neurosciences and inflammation are also covered With its careful balance of current and future approaches this handbook is a prime knowledge source for every drug developer and one that will remain up to date for some time to come From the content Discovery of Predictive Biomarkers for Anticancer Drugs Discovery and Development of Vemurafenib Targeting Basal Cell Carcinoma G Quadruplexes as Therapeutic Targets in Cancer From Human Genetics to Drug Candidates An Industrial Perspective on LRRK2 Inhibition as a Treatment for Parkinson s Disease Therapeutic Potential of Kinases in Asthma DNA Damage Repair Pathways and Synthetic Lethality Medicinal Chemistry in the Context of the Human Genome and many more Chemistry and Biology of Non-canonical Nucleic Acids Naoki Sugimoto,2021-03-16 Discover the fundamentals and intricacies of a subject at the interface of chemistry and biology with this authoritative resource Chemistry and Biology of Non canonical Nucleic Acids delivers a comprehensive treatment of the chemistry and biology of non canonical nucleic acids including their history structures stabilities properties and functions You ll learn about the role of these vital compounds in transcription translation regulation telomeres helicases cancers neurodegenerative diseases therapeutic applications nanotechnology and more An ideal resource for graduate students researchers in physical organic analytical and inorganic chemistry will learn about uncommon nucleic acids become the common non canonical nucleic acids that fascinate and engage academics and professionals in private industry Split into 15 chapters covering a wide range of aspects of non canonical nucleic acids the book explains why these compounds exist at the forefront of a new research revolution at the intersection of chemistry and biology Chemistry and Biology of Non canonical Nucleic Acids also covers a broad range of topics critical to understanding these versatile and omnipresent chemicals including A discussion of the dynamic regulation of biosystems by nucleic acids with non canonical structures The role played by nucleic acid structures in neurodegenerative diseases and various cancers An exploration of the future outlook for the chemistry and biology of non canonical nucleic acids An introduction to the history of canonical and non canonical structures of nucleic acids An analysis of the physicochemical properties of non canonical nucleic acids Perfect for biochemists materials scientists and bioengineers Chemistry and Biology of Non canonical Nucleic Acids will also earn a place in the libraries of medicinal and pharmaceutical chemists who wish to improve their understanding of life processes and the role that non canonical nucleic acids play in them **Modern Avenues in Metal-Nucleic Acid Chemistry** Jens Müller,Bernhard Lippert,2023-04-24 Volume 25 entitled Modern Avenues in Metal Nucleic Acid Chemistry of the series Metal Ions in Life Sciences MILS provides a timely overview of selected relevant developments in a field which previously had a pronounced focus on fundamental chemistry aspects such as coordination

principles structural chemistry and consequences for biological processes and disease related medicinal issues More recently also as a consequence of the advent of supramolecular chemistry advancements in nanochemistry and new bio analytical methods novel aspects of this field have emerged MILS 25 gives a state of the art account on the present state of research in this field addressing among others porous materials non covalent interactions stimuli responsive bioconjugates DNA templated metal arrays and nanoclusters genotyping guanine quadruplexes and riboswitches It consists of 15 comprehensive chapters with over 1600 citations 160 figures 90 of them in color with key contributions from 40 international experts from Europe Asia and America It is an essential resource for scientists from numerous disciplines ranging from materials science to biochemistry by way of classical chemistry and physics It offers an update on nucleic acid metal complex bioconjugates and their applications It provides an insight into coordination polymers involving nucleic acid components It covers a wide range of nucleic acids from DNA duplexes triplexes and quadruplexes to RNA

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