

Nucleic Acid Targeted Drug Design

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Nucleic Acid Targeted Drug Design

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Nucleic Acid Targeted Drug Design:

Nucleic Acid Targeted Drug Design Catherin Propst, 1992-08-13 Medicinal Chemistry of Nucleic Acids Lihe Zhang, Zhen Xi, Jyoti Chattopadhyaya, 2011-08-10 Complete up to date coverage of the broad area of nucleic acid chemistry and biology Assembling contributions from a collection of authors with expertise in all areas of nucleic acids medicinal chemistry and therapeutic applications Medicinal Chemistry of Nucleic Acids presents a thorough overview of nucleic acid chemistry a rapidly evolving and highly challenging discipline directly responsible for the development of antiviral and antitumor drugs This reliable resource delves into a multitude of subject areas involving the study of nucleic acids such as the new advances in genome sequencing and the processes for creating RNA interference RNAi based drugs to assist pharmaceutical researchers in removing roadblocks that hinder their ability to predict drug efficacy Offering the latest cutting edge science in this growing field Medicinal Chemistry of Nucleic Acids includes In depth coverage of the development and application of modified nucleosides and nucleotides in medicinal chemistry A close look at a large range of current topics on nucleic acid chemistry and biology Essential information on the use of nucleic acid drugs to treat diseases like cancer A thorough exploration of siRNA for RNAi and the regulation of microRNA non coding RNA ncRNA a newly developing and exciting research area Thorough in its approach and promising in its message Medicinal Chemistry of Nucleic Acids probes the new domains of pharmaceutical research and exposes readers to a wealth of new drug discovery opportunities emerging in the dynamic field of nucleic acid chemistry *Drug Discovery Targeting Drug-Resistant Bacteria* Prashant Kesharwani, Sidharth Chopra, Arunava Dasgupta, 2020-05-15 Drug Discovery Targeting Drug Resistant Bacteria explores the status and possible future of developments in fighting drug resistant bacteria The book covers the majority of microbial diseases and the drugs targeting them In addition it discusses the potential targeting strategies and innovative approaches to address drug resistance It brings together academic and industrial experts working on discovering and developing drugs targeting drug resistant DR bacterial pathogens New drugs active against drug resistant pathogens are discussed along with new strategies being used to discover molecules acting via new modes of action In addition alternative therapies such as peptides and phages are included Pharmaceutical scientists microbiologists medical professionals pathologists researchers in the field of drug discovery infectious diseases and microbial drug discovery both in academia and in industrial settings will find this book helpful Written by scientists with extensive industrial experience in drug discovery Provides a balanced view of the field including its challenges and future directions Includes a special chapter on the identification and development of drugs against pathogens which exhibit the potential to be used as weapons of war New Advances in RNA Targeting Olga N. Ilinskaya, Hector A. Cabrera-Fuentes, Derek John Hausenloy, Marina A. Zenkova, 2020-06-04 **Drug-Nucleic Acid Interactions**, 2001-07-31 This volume consolidates the key methods for studying ligand nucleic acid interactions into a convenient source Techniques that are examined range from biophysical and

chemical approaches to methods rooted in molecular and cell biology

Computational Methods for Rational Drug Design Mithun Rudrapal, 2024-12-06 Comprehensive resource covering computational tools and techniques for the development of cost effective drugs to combat diseases with specific disease examples Computational Methods for Rational Drug Design covers the tools and techniques of drug design with applications to the discovery of small molecule based therapeutics detailing methodologies and practical applications and addressing the challenges of techniques like AI ML and drug design for unknown receptor structures Divided into 23 chapters the contributors address various cutting edge areas of therapeutic importance such as neurodegenerative disorders cancer multi drug resistant bacterial infections inflammatory diseases and viral infections Edited by a highly qualified academic with significant research contributions to the field Computational Methods for Rational Drug Design explores topics including Computer assisted methods and tools for structure and ligand based drug design virtual screening and lead discovery and ADMET and physicochemical assessments In silico and pharmacophore modeling fragment based design de novo drug design and scaffold hopping network based methods and drug discovery Rational design of natural products peptides enzyme inhibitors drugs for neurodegenerative disorders anti inflammatory therapeutics antibacterials for multi drug resistant infections and antiviral and anticancer therapeutics Protac and prodrug strategies in drug design intrinsically disordered proteins IDPs in drug discovery and lung cancer treatment through ALK receptor targeted drug metabolism and pharmacokinetics Helping readers seamlessly navigate the challenges of drug design Computational Methods for Rational Drug Design is an essential reference for pharmaceutical and medicinal chemists biochemists pharmacologists and phytochemists along with molecular modeling and computational drug discovery professionals

RNA as a Drug Target John Schneekloth, Martin Pettersson, 2024-10-07 Discover a new paradigm in drug discovery that greatly expands the space of addressable drug targets and potential novel drugs Existing paradigms for drug discovery have focused largely on enzymes and other proteins as drug targets In recent years however different varieties of ribonucleic acids have emerged as a viable focus for target based drug discovery with the potential to revolutionize the strategy and approach for this essential step in the drug development process RNA as a Drug Target The Next Frontier for Medicinal Chemistry offers a practice oriented introduction to developing drug like small molecules that selectively modulate both coding and non coding RNAs Beginning with a description and characterization of existing druggable RNAs the book discusses how to approach different RNA targets for drug discovery The result is a crucial resource for targeting RNAs and creating the next generation of life saving pharmaceuticals RNA as a Drug Target readers will also find A complete toolbox for working with RNA from structure determination to screening and lead generation techniques A wide range of addressable targets and mechanisms including splicing modulation riboswitches targeted degradation and more Authoritative discussion of the potential of RNA targeted small molecule therapeutics for drugging the epitranscriptome RNA as a Drug Target provides an expert introduction to a new frontier in pharmaceutical research for

medicinal chemists biochemists molecular biologists and members of the pharmaceutical industry **Biochemical and Molecular Pharmacology in Drug Discovery** Mithun Rudrapal, Chukwuebuka Egbuna, William Chi Shing Cho, 2024-06-26 Biochemical and Molecular Pharmacology in Drug Discovery comprises fundamental biochemical and molecular aspects of drug discovery and basic understanding of modern drug discovery approaches along with certain key topics related to molecular pharmacology of drugs and therapeutics Molecular pharmacology has gained significant momentum among researchers scientists and academicians because of its increasing interest in drug discovery research across the globe Molecular pharmacology involves a fundamental understanding of drug actions at the molecular level with the help of several tools and techniques of biochemical and molecular biology It explains the phenomena of drug target interactions considering different biochemical systems and cellular strategies With the advent of technologies current advances and research trends move toward molecular and or target based drug design and discovery Through this book readers will be able to gain skills and knowledge with a thorough understanding of the subject of biochemical and molecular pharmacology in a comprehensive and systematic manner with special reference to recent advances in drug discovery research Highlights the fundamentals of biochemical and molecular aspects with reference to drug discovery research Depicts modern drug discovery approaches such as reverse pharmacology drug repositioning and CADD in the context of current research updates Summarizes recent developments in the molecular pharmacology of novel drugs therapeutic molecules *Biopharmaceutical Drug Design and Development* Susanna Wu-Pong, Yon Rojanasakul, 2010-01-11 Biopharmaceutical Drug Design and Development Second Edition furthers the widely successful first edition published in 1999 This new expanded edition investigates the dozens of new biopharmaceutical drugs that have become available since that time Among the drugs discussed are ones in the categories of monoclonal antibodies for in vivo use cytokines growth factors enzymes immunomodulators thrombolytics and immunotherapies including vaccines Additionally the volume examines new and emerging technologies such as bioinformatics DNA microarrays transgenics therapeutic gene delivery stem cells nucleic acid based therapeutics and macromolecular drug delivery Authors also study pharmacogenetics in the clinic and changes in biologic drug approval at the FDA Biopharmaceutical Drug Design and Development Second Edition is a worthy sequel to a discussion on the dynamic exciting field of biotechnology **Nucleic Acids** Irshad Ul Haq Bhat, Zakia Khanam, 2023-08-20 Nucleic Acids A Natural Target for Newly Designed Metal Chelate Based Drugs discusses how human diseases are becoming more costly to treat along with updates on the resistance offered by disease causing agents The abundance of drugs in the market has provided great relief to patients but side effects can destroy the immune system of the body Patients need to boost their immune system and at the same time cover expenses incurred to cure disease Thus a paradigm shift is needed to design a drug molecule with low cost and easy availability Metal complexes can be a great example of such a shift as metal ions are components of biological molecules and can achieve good binding capability to specific targets while not allowing them to

damage healthy cell system Therefore in this book a comprehensive compilation of recent data is provided including the structural elucidation of metal complexes by advanced techniques and the binding pattern of metal complexes with specific targets Focuses on recent advances and methods adopted for generating new metal based molecules and their interactions with biomolecules especially nucleic acids Addresses challenges for developing new metal based drugs Examines advances in optical techniques for the characterization of metal based drugs

Artificial Intelligence and Machine Learning in Drug Design and Development Abhirup Khanna, May El Barachi, Sapna Jain, Manoj Kumar, Anand Nayyar, 2024-06-21 The book is a comprehensive guide that explores the use of artificial intelligence and machine learning in drug discovery and development covering a range of topics including the use of molecular modeling docking identifying targets selecting compounds and optimizing drugs The intersection of Artificial Intelligence AI and Machine Learning ML within the field of drug design and development represents a pivotal moment in the history of healthcare and pharmaceuticals The remarkable synergy between cutting edge technology and the life sciences has ushered in a new era of possibilities offering unprecedented opportunities formidable challenges and a tantalizing glimpse into the future of medicine AI can be applied to all the key areas of the pharmaceutical industry such as drug discovery and development drug repurposing and improving productivity within a short period Contemporary methods have shown promising results in facilitating the discovery of drugs to target different diseases Moreover AI helps in predicting the efficacy and safety of molecules and gives researchers a much broader chemical pallet for the selection of the best molecules for drug testing and delivery In this context drug repurposing is another important topic where AI can have a substantial impact With the vast amount of clinical and pharmaceutical data available to date AI algorithms find suitable drugs that can be repurposed for alternative use in medicine This book is a comprehensive exploration of this dynamic and rapidly evolving field In an era where precision and efficiency are paramount in drug discovery AI and ML have emerged as transformative tools reshaping the way we identify design and develop pharmaceuticals This book is a testament to the profound impact these technologies have had and will continue to have on the pharmaceutical industry healthcare and ultimately patient well being The editors of this volume have assembled a distinguished group of experts researchers and thought leaders from both the AI ML and pharmaceutical domains Their collective knowledge and insights illuminate the multifaceted landscape of AI and ML in drug design and development offering a roadmap for navigating its complexities and harnessing its potential In each section readers will find a rich tapestry of knowledge case studies and expert opinions providing a 360 degree view of AI and ML s role in drug design and development Whether you are a researcher scientist industry professional policymaker or simply curious about the future of medicine this book offers 19 state of the art chapters providing valuable insights and a compass to navigate the exciting journey ahead Audience The book is a valuable resource for a wide range of professionals in the pharmaceutical and allied industries including researchers scientists engineers and laboratory workers in the field of drug discovery and

development who want to learn about the latest techniques in machine learning and AI as well as information technology professionals who are interested in the application of machine learning and artificial intelligence in drug development

Frontiers in Drug Design and Discovery: Volume 2 Atta-ur- Rahman, Gary W. Caldwell, Mohammad Iqbal Choudhary, Michael R. D' Andrea, 2006 Frontiers in Drug Design and Discovery is an Ebook series devoted to publishing the latest and the most important advances in drug design and discovery Eminent scientists write contributions on all areas of rational drug design and drug discovery inclu **Organelle and Molecular Targeting** Lara Scheherazade Milane, Mansoor M. Amiji, 2021-12-27 We have surpassed the omics era and are truly in the Age of Molecular Therapeutics The fast paced development of SARS CoV 2 vaccines such as the mRNA vaccines encoding the viral spike protein demonstrated the need for and capability of molecular therapy and nanotechnology based solutions for drug delivery In record speed the SARS CoV 2 viral RNA genome was sequenced and shared with the scientific community allowing the rapid design of molecular therapeutics The mRNA vaccines exploit the host cell endoplasmic reticulum to produce viral spike proteins for antigen presentation and recognition by the innate and adaptive immune system Lipid nanoparticles enable the delivery of the fragile degradation sensitive nucleic acid payloads Molecular based therapeutics and nanotechnology solutions continue to drive the scientific and medical response to the COVID 19 pandemic as new mRNA DNA and protein based vaccines are developed and approved and the emergency use approved vaccines are rapidly manufactured and distributed throughout the globe The need for molecular therapies and drug delivery solutions is clear and as these therapies progress and become more specialized there will be important advancements in organelle targeting For example using organelle targeting to direct lipid nanoparticles with mRNA payloads to the endoplasmic reticulum would increase the efficacy of mRNA vaccines reducing the required dose and therefore the biomanufacturing demand Likewise improving the delivery of DNA therapeutics to the nucleus would improve efficacy Organelles and molecules have always been drug targets but until recently we have not had the tools or capability to design and develop such highly specific therapeutics Organelle targeting has far reaching implications For example mitochondria are central to both energy production and intrinsic apoptosis Effectively targeting and manipulating mitochondria has therapeutic applications for diseases such as myopathies cancer neurodegeneration progerias diabetes and the natural aging process The SARS CoV 2 vaccines that exploit the endoplasmic reticulum for mRNA vaccines and the nucleic translational process DNA vaccines attest to the need for organelle and molecular therapeutics This book covers the status demand and future of organelle and molecularly targeted therapeutics that are critical to the advancement of modern medicine Organelle and molecular targeting is the drug design and drug delivery approach of today and the future understanding this approach is essential for students scientists and clinicians contributing to modern medicine **Structural Biology in Drug Discovery** Jean-Paul Renaud, 2020-01-27 With the most comprehensive and up to date overview of structure based drug discovery covering both experimental and computational approaches Structural

Biology in Drug Discovery Methods Techniques and Practices describes principles methods applications and emerging paradigms of structural biology as a tool for more efficient drug development Coverage includes successful examples academic and industry insights novel concepts and advances in a rapidly evolving field The combined chapters by authors writing from the frontlines of structural biology and drug discovery give readers a valuable reference and resource that Presents the benefits limitations and potentiality of major techniques in the field such as X ray crystallography NMR neutron crystallography cryo EM mass spectrometry and other biophysical techniques and computational structural biology Includes detailed chapters on druggability allostery complementary use of thermodynamic and kinetic information and powerful approaches such as structural chemogenomics and fragment based drug design Emphasizes the need for the in depth biophysical characterization of protein targets as well as of therapeutic proteins and for a thorough quality assessment of experimental structures Illustrates advances in the field of established therapeutic targets like kinases serine proteinases GPCRs and epigenetic proteins and of more challenging ones like protein protein interactions and intrinsically disordered proteins

Small Molecule DNA and RNA Binders Martine Demeunynck, Christian Bailly, W. David Wilson, 2006-03-06 The development of molecules that selectively bind to nucleic acids has provided many details about DNA and RNA recognition The range of such substances such as metal complexes peptides oligonucleotides and a wide array of synthetic organic compounds is as manifold as the functions of nucleic acids Nucleic acid recognition sequences are often found in the major or minor groove of a double strand while other typical interactions include intercalation between base pairs or the formation of triple or quadruple helices One example of a binding mode that has recently been proposed is end stacking on such complex structures as the telomere tetraplex In this comprehensive book internationally recognized experts describe in detail the important aspects of nucleic acid binding and in so doing present impressive approaches to drug design Since typical substances may be created naturally or synthetically emphasis is placed on natural products chemical synthesis the use of combinatorial libraries and structural characterization The whole is rounded off by contributions on molecular modeling as well as investigations into the way in which any given drug interacts with its nucleic acid recognition site

The Era of Artificial Intelligence, Machine Learning, and Data Science in the Pharmaceutical Industry Stephanie K. Ashenden, 2021-04-23 The Era of Artificial Intelligence Machine Learning and Data Science in the Pharmaceutical Industry examines the drug discovery process assessing how new technologies have improved effectiveness Artificial intelligence and machine learning are considered the future for a wide range of disciplines and industries including the pharmaceutical industry In an environment where producing a single approved drug costs millions and takes many years of rigorous testing prior to its approval reducing costs and time is of high interest This book follows the journey that a drug company takes when producing a therapeutic from the very beginning to ultimately benefitting a patient's life This comprehensive resource will be useful to those working in the pharmaceutical industry but will also be of interest to anyone doing research in chemical

biology computational chemistry medicinal chemistry and bioinformatics Demonstrates how the prediction of toxic effects is performed how to reduce costs in testing compounds and its use in animal research Written by the industrial teams who are conducting the work showcasing how the technology has improved and where it should be further improved Targets materials for a better understanding of techniques from different disciplines thus creating a complete guide **Miraculous**

Medicines and the Chemistry of Drug Design Nathan Keighley, 2020-12-14 The subject of chemistry is widely acknowledged as being conceptually challenging and regarded with a perceived elitism This book aims to address this dilemma by breaking down the fundamentals of organic chemistry and its importance in medicine so that readers with any or no background education in chemistry can access the material and gain an appreciation and understanding for the subject The text is written in a clear and concise manner using appropriate figures to explain how the medicine we are so familiar with is designed and produced Undergraduate students medical and nursing students and general audiences will benefit from the accessible format and enjoyable read Key Features User friendly text dealing with the chemical sciences for the non scientist Public understanding of science at the interface of biology and chemistry is in high demand The book serves to introduce organic chemistry and its relevance to medicine Describes the foundational principles of chemistry without losing the systematic rigor of the subject *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 Herdewijin 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 **Biophysical and Computational Tools in Drug Discovery**

Anil Kumar Saxena, 2021-10-18 This book reviews recent physicochemical and biophysical techniques applied in drug discovery research and it outlines the latest advances in computational drug design Divided into 10 chapters the book discusses about the role of structural biology in drug discovery and offers useful application cases of several biophysical and

computational methods including time resolved fluorometry TRF with F rster resonance energy transfer FRET X Ray crystallography nuclear magnetic resonance spectroscopy mass spectroscopy generative machine learning for inverse molecular design quantum mechanics molecular mechanics QM MM ONIOM and quantum molecular dynamics QMT methods Particular attention is given to computational search techniques applied to peptide vaccines using novel mathematical descriptors and structure and ligand based virtual screening techniques in drug discovery research Given its scope the book is a valuable resource for students researchers and professionals from pharmaceutical industry interested in drug design and discovery *Biomedical Index to PHS-supported Research* ,1993

This book delves into Nucleic Acid Targeted Drug Design. Nucleic Acid Targeted Drug Design is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Nucleic Acid Targeted Drug Design, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Nucleic Acid Targeted Drug Design
 - Chapter 2: Essential Elements of Nucleic Acid Targeted Drug Design
 - Chapter 3: Nucleic Acid Targeted Drug Design in Everyday Life
 - Chapter 4: Nucleic Acid Targeted Drug Design in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Nucleic Acid Targeted Drug Design. The first chapter will explore what Nucleic Acid Targeted Drug Design is, why Nucleic Acid Targeted Drug Design is vital, and how to effectively learn about Nucleic Acid Targeted Drug Design.
 3. In chapter 2, the author will delve into the foundational concepts of Nucleic Acid Targeted Drug Design. The second chapter will elucidate the essential principles that need to be understood to grasp Nucleic Acid Targeted Drug Design in its entirety.
 4. In chapter 3, the author will examine the practical applications of Nucleic Acid Targeted Drug Design in daily life. The third chapter will showcase real-world examples of how Nucleic Acid Targeted Drug Design can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Nucleic Acid Targeted Drug Design in specific contexts. This chapter will explore how Nucleic Acid Targeted Drug Design is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Nucleic Acid Targeted Drug Design. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Nucleic Acid Targeted Drug Design.

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Nucleic Acid Targeted Drug Design Introduction

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