



Ariel Fernández

Transformative Concepts for Drug Design: Target Wrapping

 Springer

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Ariel Fernández



Transformative Concepts For Drug Design Target Wrapping:

Transformative Concepts for Drug Design: Target Wrapping Ariel Fernandez, 2010-04-28 In spite of the enticing promises of the post genomic era the pharmaceutical world is in a state of disarray Drug discovery seems now riskier and more uncertain than ever Thus projects get routinely terminated in mid stage clinical trials new targets are getting harder to find and successful therapeutic agents are often recalled as unanticipated side effects are discovered Exploiting the huge output of genomic studies to make safer drugs has proven to be much more difficult than anticipated More than ever the lead in the pharmaceutical industry depends on the ability to harness innovative research and this type of innovation can only come from one source fundamental knowledge This book squarely addresses this crucial problem since it introduces fundamental discoveries in basic biomolecular research that hold potential to broaden the technological base of the pharmaceutical industry The book takes a fresh and fundamental look at the problem of how to design an effective drug with controlled specificity Since the novel transformative concepts are unfamiliar to most practitioners the first part of this book explains matters very carefully starting from a fairly elementary physico chemical level The second part of the book is devoted to practical applications aiming at nothing less than a paradigm shift in drug design This book is addressed to scientists working at the cutting edge of research in the pharmaceutical industry but the material is at the same time accessible to senior undergraduates or graduate students interested in drug discovery and molecular design

Physics at the Biomolecular Interface Ariel Fernández, 2016-05-11 This book focuses primarily on the role of interfacial forces in understanding biological phenomena at the molecular scale By providing a suitable statistical mechanical apparatus to handle the biomolecular interface the book becomes uniquely positioned to address core problems in molecular biophysics It highlights the importance of interfacial tension in delineating a solution to the protein folding problem in unravelling the physico chemical basis of enzyme catalysis and protein associations and in rationally designing molecular targeted therapies Thus grounded in fundamental science the book develops a powerful technological platform for drug discovery while it is set to inspire scientists at any level in their careers determined to address the major challenges in molecular biophysics The acknowledgment of how exquisitely the structure and dynamics of proteins and their aqueous environment are related attests to the overdue recognition that biomolecular phenomena cannot be effectively understood without dealing with interfacial behaviour There is an urge to grasp how biologically relevant behaviour is shaped by the structuring of biomolecular interfaces and how interfacial tension affects the molecular events that take place in the cell This book squarely addresses these needs from a physicist perspective The book may serve as a monograph for practitioners and alternatively as an advanced textbook Fruitful reading requires a background in physical chemistry and some basics in biophysics The selected problems at the end of the chapters and the progression in conceptual difficulty make it a suitable textbook for a graduate level course or an elective course for seniors majoring in chemistry physics biomedical engineering or related disciplines

Biomolecular Interfaces Ariel Fernández Stigliano, 2015-04-20 The book focuses on the aqueous interface of biomolecules a vital yet overlooked area of biophysical research Most biological phenomena cannot be fully understood at the molecular level without considering interfacial behavior The author presents conceptual advances in molecular biophysics that herald the advent of a new discipline epistuctural biology centered on the interactions of water and bio molecular structures across the interface The author introduces powerful theoretical and computational resources in order to address fundamental topics such as protein folding the physico chemical basis of enzyme catalysis and protein associations On the basis of this information a multi disciplinary approach is used to engineer therapeutic drugs and to allow substantive advances in targeted molecular medicine This book will be of interest to scientists students and practitioners in the fields of chemistry biophysics and biomedical engineering *Computational and Visualization Techniques for Structural Bioinformatics Using Chimera* Forbes J. Burkowski, 2014-07-29 A Step by Step Guide to Describing Biomolecular Structure Computational and Visualization Techniques for Structural Bioinformatics Using Chimera shows how to perform computations with Python scripts in the Chimera environment It focuses on the three core areas needed to study structural bioinformatics biochemistry mathematics and computation Und *Topological Dynamics in Metamodel Discovery with Artificial Intelligence* Ariel Fernández, 2022-12-21 The leveraging of artificial intelligence AI for model discovery in dynamical systems is cross fertilizing and revolutionizing both disciplines heralding a new era of data driven science This book is placed at the forefront of this endeavor taking model discovery to the next level Dealing with artificial intelligence this book delineates AI s role in model discovery for dynamical systems With the implementation of topological methods to construct metamodels it engages with levels of complexity and multiscale hierarchies hitherto considered off limits for data science Key Features Introduces new and advanced methods of model discovery for time series data using artificial intelligence Implements topological approaches to distill machine intuitive models from complex dynamics data Introduces a new paradigm for a parsimonious model of a dynamical system without resorting to differential equations Heralds a new era in data driven science and engineering based on the operational concept of computational intuition Intended for graduate students researchers and practitioners interested in dynamical systems empowered by AI or machine learning and in their biological engineering and biomedical applications this book will represent a significant educational resource for people engaged in AI related cross disciplinary projects **Biopolymers for Medical Applications** Juan M. Ruso, Paula V. Messina, 2017-02-17 This book presents an experimental and computational account of the applications of biopolymers in the field of medicine Biopolymers are macromolecules produced by living systems such as proteins polypeptides nucleic acids and polysaccharides Their advantages over polymers produced using synthetic chemistry include diversity abundance relatively low cost and sustainability This book explains techniques for the production of different biodevices such as scaffolds hydrogels functional nanoparticles microcapsules and nanocapsules Furthermore developments in nanodrug

delivery gene therapy and tissue engineering are described

Membrane Hydration E. Anibal Disalvo, 2015-10-05 This book is about the importance of water in determining the structure stability and responsive behavior of biological membranes Water confers to lipid membranes unique features in terms of surface and mechanical properties The analysis of the hydration forces plasticiser effects controlled hydration formation of microdomains of confined water suggests that water is an active constituent in a water lipid system The chapters describe water organization at the lipid membrane water interphase the water penetration the long range water structure in the presence of lipid membranes by means of X ray and neutron scattering general polarization fluorescent probes ATR FTIR and near infrared spectroscopies piezo electric methods computer simulation and surface thermodynamics Permeation percolation osmotic stress polarization protrusion sorption hydrophobicity density fluctuations are treated in detail in self assembled bilayers Studies in lipid monolayers show the correlation of surface pressure with water activity and its role in peptide and enzyme interactions The book concludes with a discussion on anhydrobiosis and the effect of water replacement in microdomains and its consequence for cell function New definitions of lipid water interphases consider water not only as a structural making solvent but as a mediator in signalling metabolic activity modulating protein insertion and enzymatic activity triggering oscillatory reactions and functioning of membrane bound receptors Since these effects occur at the molecular level membrane hydration appears fundamental to understand the behavior of nano systems and confined environments mimicking biological systems These insights in structural thermodynamical and mechanical water properties give a base for new paradigms in membrane structure and function for those interested in biophysics physical chemistry biology bio and nano medicine biochemistry biotechnology and nano sciences searching for biotechnological inputs in human health food industry plant growing and energy conversion

Artificial Intelligence Platform For Molecular Targeted Therapy: A Translational Science Approach Ariel

Fernandez, 2021-03-12 In the era of big biomedical data there are many ways in which artificial intelligence AI is likely to broaden the technological base of the pharmaceutical industry Cheminformatic applications of AI involving the parsing of chemical space are already being implemented to infer compound properties and activity By contrast dynamic aspects of the design of drug target interfaces have received little attention due to the inherent difficulties in dealing with physical phenomena that often do not conform to simplifying views This book focuses precisely on dynamic drug target interfaces and argues that the true game change in pharmaceutical discovery will come as AI is enabled to solve core problems in molecular biophysics that are intimately related to rational drug design and drug discovery Here are a few examples to convey the flavor of our quest How do we therapeutically impair a dysfunctional protein with unknown structure or regulation but known to be a culprit of disease In regards to SARS CoV 2 what is the structural impact of a dominant mutation how does the structure change translate into a fitness advantage what new therapeutic opportunity arises How do we extend molecular dynamics simulations to realistic timescales to capture the rare events associated with drug targeting in vivo How do we

control specificity in drug design to selectively remove side effects This is the type of problems directly related to the understanding of drug target interfaces that the book squarely addresses by leveraging a comprehensive AI empowered approach

Drug Design Gerhard Klebe, 2025-02-04 This English language textbook based on the successful German edition Wirkstoffdesign brings the subject of drug design back to the cutting edge of research The reader learns about new methods in genetic engineering and the expanded range of structural biological methods Especially in the last 10 years many complex target structures such as G protein coupled receptors or ion channels have been elucidated by using these methods The reader learns how these long sought complex structures with classical drugs look like and how the therapeutic effect is achieved This textbook is aimed at students of pharmacy chemistry and the life sciences but also at career changers and medicinal chemists in research and development departments of the pharmaceutical industry Conceptually it is very different from classical textbooks on pharmaceutical chemistry It focuses on the path to a new drug substance The selection of case studies is based on didactic aspects and attempts to give a broad overview of methods and strategies without forgetting to look back at the beginnings of this field of work Thus the arc spans from the history of drug research the mechanisms of action of drugs and the methods for lead structure search and optimisation to structure determination methods modelling molecular dynamics and QSAR methods to structure and computer aided design This textbook also discusses new methods and concepts such as epigenetics the PROTAC approach CRISPR Cas9 gene scissors structural predictions from sequence the use of artificial intelligence and new screening technologies from biophysics It presents successes in disrupting or enhancing protein protein interactions as a concept for drug therapy and discusses optimising drugs considering their thermodynamic as well as kinetic binding profiles Videos via app simply download the SN More Media app free of charge scan a link with the play button and immediately play the video on your smartphone or tablet

Computational Drug Delivery Pooja A. Chawla, Dilpreet Singh, Kamal Dua, Muralikrishnan Dhanasekaran, Viney Chawla, 2024-10-07 The book bridges the gap between pharmaceuticals and molecular modelling at the micro meso and macro scale It covers Lipinski's rule of five nanoparticulate drug delivery computational prediction of drug solubility and ability to cross blood brain barrier computer based simulation of pharmacokinetic parameters virtual screening of mucoadhesive polymers QSPR modelling designing of 2D nanomaterials and role of principal component analysis

Label-Free Technologies For Drug Discovery Matthew Cooper, Lorenz M. Mayr, 2011-02-11 Over the past two decades the benefits of label free biosensor analysis have begun to make an impact in the market and systems are beginning to be used as mainstream research tools in many drug discovery laboratories Label Free Technologies For Drug Discovery summarises the latest and emerging developments in label free detection systems their underlying technology principles and end user case studies that reveal the power and limitations of label free in all areas of drug discovery Label free technologies discussed include SPR NMR high throughput mass spectrometry resonant waveguide plate based screening transmitted light imaging isothermal titration calorimetry optical

and impedance cell based assays and other biophysical methods The technologies are discussed in relation to their use as screening technologies high content technologies hit finding and hit validation strategies mode of action and ADME T access to difficult target classes cell based receptor ligand interactions particularly orphan receptors and antibody and small molecule affinity and kinetic analysis Label Free Technologies For Drug Discovery is an essential guide to this emerging class of tools for researchers in drug discovery and development particularly high throughput screening and compound profiling teams medicinal chemists structural biologists assay developers ADME T specialists and others interested in biomolecular interaction analysis

Nanotechnology for Electronic Applications Nabisab Mujawar Mubarak,Sreerag Gopi,Preetha Balakrishnan,2022-01-17 This book provides an overview of the electronic applications of nanotechnology It presents latest research in the areas of nanotechnology applied to the fields of electronics and energy Various topics covered in this book include nanotechnology in electronic field electronic chips and circuits batteries wireless devices energy storage semiconductors fuel cells defense and military equipment and aerospace industry This book will be useful for engineers researchers and industry professionals primarily in the fields of electrical engineering engineering materials science and nanotechnology

The Good Side of Technology: How We Can Harness the Positive Potential of Digital Technology to Maximize Well-being John F. Hunter,Stephen Schueller,Lisa C. Walsh,Chi-Keung Chan,2023-10-31 *The Textbook of Nanoneuroscience and Nanoneurosurgery* Babak Kateb,John D. Heiss,John S. Yu,Ming Hsieh,2024-11-13 This textbook highlights the exciting field of nanoneuroscience and its potential to transform how we diagnose and treat neurological disorders The Textbook of Nanoneuroscience and Nanoneurosurgery dives deep into this emerging field exploring the latest tools and techniques currently being developed at the nanoscale level Key areas of focus include Nanoplatfoms The book explores how scientists utilize materials on a near microscopic scale for neurosurgery neurology and brain imaging applications Bridging the Gap Regulatory hurdles for translating research from the lab to real world use are addressed paving the way for future advancements The Future is Now The book showcases recent breakthroughs already impacting patient care alongside promising areas with significant potential Collaboration is Key Insights from over 220 researchers and 5000 references along with illustrative figures in B W and color provide a comprehensive overview of this dynamic field With its focus on minimally invasive procedures and the latest regulatory considerations The Textbook of Nanoneuroscience and Nanoneurosurgery equips researchers and medical professionals with the knowledge to develop groundbreaking treatments for neurological conditions The text also reviews the latest regulatory guidelines that influence the translation of nanotechnological research from the laboratory to the clinic and the most recent information on biodevices and pharmaceutical spinoffs It highlights presidential and congressional initiatives and programs that may impact the field soon Some reviews of the First edition of the textbook a significant contribution to the field of nanoneuroscience and nanoneurosurgery the reader will come away with a deeper understanding of the history of nanotechnology and medicine

Neuroscience This is a monumental first textbook on nanoneurosurgery recommended reading for neurosurgeons neurologists neuroradiologists and neuroscientists involved in research on new techniques for application in neurosurgery Biomedical engineers and various companies developing instruments and devices would benefit from the wealth of information about trends for the development of new technologies for neurosurgery K K Jain MD Basel Switzerland Phenomenal body of knowledge in this book that would take eons to collate by myself Every answer to every one of my questions plus heaps more Essential reading for everyone interested in the field A must have Albert Deme This is an amazing foray into the future of a largely unexplored but increasingly critical medical domain I have learned much from every page of this captivating text and I highly recommend it to any medical student researcher medical professional in the neurosciences or anyone who has an interest in the human brain and the future of medicine to gather a glimpse of the incredible and beneficial paradigm shifts that will soon impact the field of neuroscience Frank Boehm British Columbia Canada [Index Medicus](#) ,2004 [Pharmaceutical Dosage Forms](#) Larry L. Augsburger, Stephen W. Hoag, 2017-10-30 Pharmaceutical Dosage Forms Capsules covers the development composition and manufacture of capsules Despite the important role that capsules play in drug delivery and product development few comprehensive texts on the science and technology of capsules have been available for the research and academic environments This text addresses this gap discussing how capsules provide unique capabilities and options for dosage form design and formulation [Commercializing Successful Biomedical Technologies](#) Shreefal S. Mehta, 2022-11-17 Transform your ideas into commercial products through this updated second edition with real world case studies and industry tips *Health Data in the Information Society* György Surján, Rolf Engelbrecht, Peter McNair, 2002 MIE 2002 is the XVIIth international conference of the European Federation of Medical Informatics Today mankind builds up the information society enabled by the underlying rapid development in computer technology The significance of the spread of the internet is comparable to the significance of Gutenberg's invention On one hand it both helps dissemination of data and knowledge and sharing of ideas On the other hand the achievements may divide the society as did non literacy deprive many people from knowledge throughout centuries Today millions of people are isolated from an incredibly large amount of information because of computer non literacy and a new elite mastering the information society has appeared However the ease of production and dissemination of information may foster thoughtless communication and has led to a flood of information and disinformation We have to learn how to behave in this new situation in which the dissemination of information at an international level is totally uncontrolled In the area of medical or health informatics these questions are more serious Lack of information false or inadequate information as well as improper interpretation of accurate information may seriously harm patients And the process may go out of control of the physician i e patients can treat themselves just by visiting some health sites on the net Everybody may throw a message in a bottle in information flood and everybody may pick up messages at any time Can we do anything to ensure that all messages are valid Can we guarantee

that our messages reach the intended audience Can we secure that content has not changed on its way Do we know that people getting our messages will interpret them correctly Are we able to understand the intention of a sender when we get a message totally out of context These questions build up the framework of MIE2002 **Cumulated Index Medicus** ,1982

Popular Science ,2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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