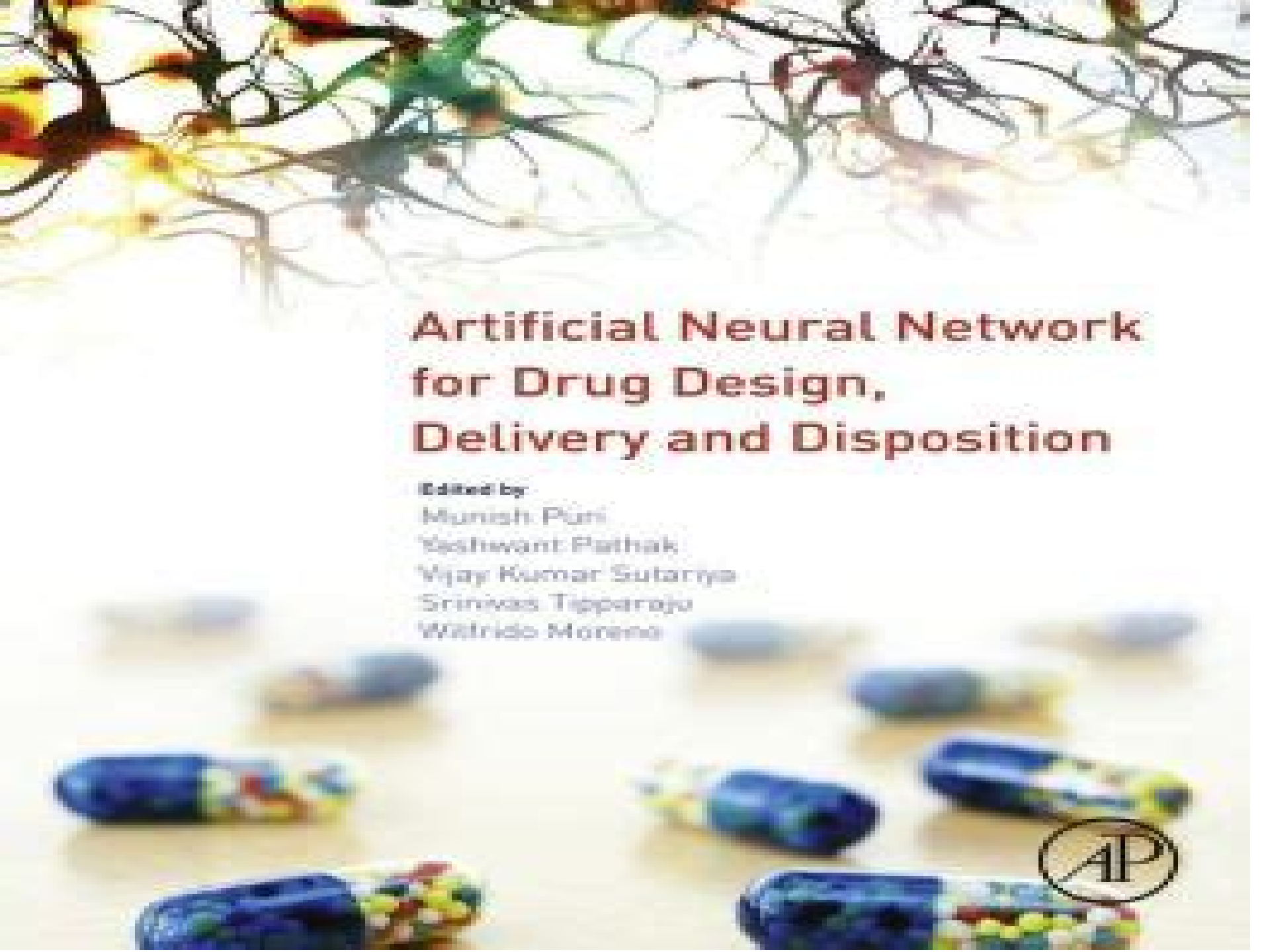




Artificial Neural Network for Drug Design, Delivery and Disposition

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Artificial Neural Network For Drug Design Delivery And Disposition

**Seth Kwabena Amponsah, Yashwant V.
Pathak**



Artificial Neural Network For Drug Design Delivery And Disposition:

Artificial Neural Network for Drug Design, Delivery and Disposition Munish Puri, Yashwant Pathak, Vijay Kumar Sutariya, Srinivas Tipparaju, Wilfrido Moreno, 2015-10-15 Artificial Neural Network for Drug Design Delivery and Disposition provides an in depth look at the use of artificial neural networks ANN in pharmaceutical research With its ability to learn and self correct in a highly complex environment this predictive tool has tremendous potential to help researchers more effectively design develop and deliver successful drugs This book illustrates how to use ANN methodologies and models with the intent to treat diseases like breast cancer cardiac disease and more It contains the latest cutting edge research an analysis of the benefits of ANN and relevant industry examples As such this book is an essential resource for academic and industry researchers across the pharmaceutical and biomedical sciences Written by leading academic and industry scientists who have contributed significantly to the field and are at the forefront of artificial neural network ANN research Focuses on ANN in drug design discovery and delivery as well as adopted methodologies and their applications to the treatment of various diseases and disorders Chapters cover important topics across the pharmaceutical process such as ANN in structure based drug design and the application of ANN in modern drug discovery Presents the future potential of ANN based strategies in biomedical image analysis and much more **A Handbook of Artificial Intelligence in Drug Delivery** Anil K.

Philip, Aliasgar Shahiwal, Mamoon Rashid, Md Faiyazuddin, 2023-03-27 A Handbook of Artificial Intelligence in Drug Delivery explores the use of Artificial Intelligence AI in drug delivery strategies The book covers pharmaceutical AI and drug discovery challenges Artificial Intelligence tools for drug research AI enabled intelligent drug delivery systems and next generation novel therapeutics broad utility of AI for designing novel micro nanosystems for drug delivery AI driven personalized medicine and Gene therapy 3D Organ printing and tissue engineering Advanced nanosystems based on AI principles nanorobots nanomachines opportunities and challenges using artificial intelligence in ADME Tox in drug development commercialization and regulatory perspectives ethics in AI and more This book will be useful to academic and industrial researchers interested in drug delivery chemical biology computational chemistry medicinal chemistry and bioinformatics The massive time and costs investments in drug research and development necessitate application of more innovative techniques and smart strategies Focuses on the use of Artificial Intelligence in drug delivery strategies and future impacts Provides insights into how artificial intelligence can be effectively used for the development of advanced drug delivery systems Written by experts in the field of advanced drug delivery systems and digital health **Recent Advances**

in Therapeutic Drug Monitoring and Clinical Toxicology Seth Kwabena Amponsah, Yashwant V. Pathak, 2022-10-25 This book gives an overview of therapeutic drug monitoring TDM and its clinical application It also highlights recent advances in toxicological studies as they relate to therapeutic drug monitoring This is one of the few books available on the market that covers TDM Therapeutic drug monitoring TDM is a clinical decision making tool that enables dosage regimen adjustments

based on clinical and laboratory measurements TDM not only involves the measuring of drug concentrations but also interpretation of the results There is a strong correlation between drug concentrations in body fluids and outcome than between dose and outcome The chapters include coverage of analytical techniques pharmacokinetics therapeutic indices artificial intelligence and recent advances in toxicological studies The book fills a gap in published literature and provides reliable information on Analytical techniques in TDM and clinical toxicology TDM and pharmacokinetic studies TDM of drugs with narrow therapeutic indices Artificial intelligence in TDM and clinical toxicology Future directions and challenges

Current Trends in Drug Discovery, Development and Delivery (CTD4-2022) Manikanta Murahari,Buchi N Nalluri,G Chakravarthi,2023-12-15 This publication is based on peer reviewed manuscripts from the 2022 Conference on Current Trends in Drug Discovery Development and Delivery CTD4 2022 held at KL University India Providing a wide range of up to date topics on the latest advancements in drug design and discovery technologies this book ensures the reader receives a good understanding of the scope of the field Aimed at scientists students regulators academics and consultants throughout the world this book is an ideal resource for anyone interested in the state of the art in drug design and discovery

3D Printing of Pharmaceuticals and Drug Delivery Devices Dimitrios A. Lamprou,2020-07-01 The 3D printing 3DP process was patented in 1986 however only in the last decade has it begun to be used for medical applications as well as in the fields of prosthetics bio fabrication and pharmaceutical printing 3DP or additive manufacturing AM is a family of technologies that implement layer by layer processes in order to fabricate physical models based on a computer aided design CAD model 3D printing permits the fabrication of high degrees of complexity with great reproducibility in a fast and cost effective fashion 3DP technology offers a new paradigm for the direct manufacture of individual dosage forms and has the potential to allow for variations in size and geometry as well as control dose and release behavior Furthermore the low cost and ease of use of 3DP systems means that the possibility of manufacturing medicines and medical devices at the point of dispensing or at the point of use could become a reality 3DP thus offers the perfect innovative manufacturing route to address the critical capability gap that hinders the widespread exploitation of personalized medicines for molecules that are currently not easy to deliver This Special Issue will address new developments in the area of 3D printing and bioprinting for drug delivery applications covering the recent advantages and future directions of additive manufacturing for pharmaceutical products

Polysaccharide Nanoparticles Jayachandran Venkatesan,Se-Kwon Kim,Sukumaran Anil,Rekha P. D,2022-01-11 Polysaccharide Nanoparticles Preparation and Biomedical Applications provides detailed information on polysaccharides nanoparticles in terms of their synthesis and applications Naturally occurring polysaccharides are widely used as food materials particularly in Asia Different kinds of polysaccharide materials are available from nature with various resources such as crustaceans and algae The exploration and exploitation of polysaccharides nanoparticles from natural resource is at the heart of this book which also explores the synthesis preparation and applications of polysaccharides nanoparticles for

tissue engineering and food applications This is an important reference for materials scientists and bioengineers who are looking to gain a greater understanding on how polysaccharides nanoparticles are being used for a variety of biomedical applications Explains the major synthesis and preparation methods of polysaccharide based nanoparticles Demonstrates how polysaccharides nanoparticles are being used for a range of biomedical applications including tissue engineering drug delivery and biosensors Assesses the major challenges and risks of using polysaccharides nanoparticles safely and effectively

Computational Biology in Drug Discovery and Repurposing Rajani Sharma,A. V. Senthil Kumar,Kunal Kumar,2024-08-16

This new book takes an in depth look at the emerging and prospective field of computational biology and bioinformatics which possesses the ability to analyze large accumulated biological data collected from sequence analysis of proteins and genes and cell population with an aim to make new predictions pertaining to drug discovery and new biology The book explains the basic methodology associated with a bioinformatics and computational approach in drug designing It then goes on to cover the implementation of computational programming bioinformatics pharmacophore modeling biotechnological techniques and pharmaceutical chemistry in designing drugs The major advantage of intervention of computer language or programming is to cut down the number of steps and costs in the field of drug designing reducing the repeating steps and saving time in screening the potent component for drug or vaccine designing The book describes algorithms used for drug designing and the use of machine learning and AI in drug delivery and disease diagnosis which are valuable in clinical decision making The implementation of robotics in different diseases like stroke cancer COVID 19 etc is also addressed Topics include machine learning AI databases in drug design molecular docking bioinformatics tools target based drug design and immunoinformatics chemoinformatics and nanoinformatics in drug design Drug repurposing in drug design in general as well as for specific diseases including cancer Alzheimer s disease tuberculosis COVID 19 etc is also addressed in depth

Principles of Research Methodology and Ethics in Pharmaceutical Sciences Vikas Anand Saharan,Hitesh

Kulhari,Hemant R Jadhav,2024-08-30 Pharmaceutical researchers are constantly looking for drug products drug delivery systems and devices for improving the health of society A scientific and systematic search for new knowledge requires a thorough understanding of research methods and hypothesis design This volume presents pharmaceutical research through theoretical concepts methodologies and ethical issues It fulfils publication ethics course work requirements for students Chapters have been designed to cater for the curriculum requirements of universities globally This serves as a guide on how to apply concepts in designing experiments and transforming laboratory research into actual practice Features Complete coverage of research methodology courses for graduate and postgraduate students globally Step by step assistance in writing technical reports projects protocols theses and dissertations Experimental designing in pharmaceutical formulation development and preclinical research designs Ethics in using animals in preclinical research and humans in clinical research Publication ethics best practices and guidelines for ensuring ethical writing Hypothetical and real world case studies on

ethical issues and measures for prevention and control Digitization of Healthcare Data using Blockchain T. Poongodi,D. Sumathi,B. Balamurugan,K. S. Savita,2022-07-06 DIGITIZATION OF HEALTHCARE DATA USING BLOCKCHAIN The book gives a detailed description of the integration of blockchain technology for Electronic Health Records and provides the research challenges to consider in various disciplines such as supply chain drug discovery and data management The aim of the book is to investigate the concepts of blockchain technology and its association with the recent development and advancements in the medical field Moreover it focuses on the integration of workflow strategies like NLP and AI which could be adopted for boosting the clinical documentation and electronic healthcare records EHR usage by bringing down the physician EHR data entry Also the book covers the usage of smart contracts for securing patient records Digitization of Healthcare Data Using Blockchain presents the practical implementations that deal with developing a web framework for building highly usable healthcare applications a simple blockchain powered EHR system Audience Researchers in information technology artificial intelligence electronics engineering medical informatics as well as policymakers and healthcare providers and management systems *Artificial Intelligence and Machine Learning in Drug Design and Development* Abhirup Khanna,May El Barachi,Sapna Jain,Manoj Kumar,Anand Nayyar,2024-07-18 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

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