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Computer Applications in Pharmaceutical Research and Development



Sean Ekins

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RC Schank

Computer Applications In Pharmaceutical Research And Development:

Computer Applications in Pharmaceutical Research and Development Sean Ekins,2006-06-12 A unique holistic approach covering all functions and phases of pharmaceutical research and development While there are a number of texts dedicated to individual aspects of pharmaceutical research and development this unique contributed work takes a holistic and integrative approach to the use of computers in all phases of drug discovery development and marketing It explains how applications are used at various stages including bioinformatics data mining predicting human response to drugs and high throughput screening By providing a comprehensive view the book offers readers a unique framework and systems perspective from which they can devise strategies to thoroughly exploit the use of computers in their organizations during all phases of the discovery and development process Chapters are organized into the following sections Computers in pharmaceutical research and development a general overview Understanding diseases mining complex systems for knowledge Scientific information handling and enhancing productivity Computers in drug discovery Computers in preclinical development Computers in development decision making economics and market analysis Computers in clinical development Future applications and future development Each chapter is written by one or more leading experts in the field and carefully edited to ensure a consistent structure and approach throughout the book Figures are used extensively to illustrate complex concepts and multifaceted processes References are provided in each chapter to enable readers to continue investigating a particular topic in depth Finally tables of software resources are provided in many of the chapters This is essential reading for IT professionals and scientists in the pharmaceutical industry as well as researchers involved in informatics and ADMET drug discovery and technology development The book's cross functional all phases approach provides a unique opportunity for a holistic analysis and assessment of computer applications in pharmaceuticals

Computer Applications in Pharmaceutical Research and Development. Wiley Series in Drug Discovery and Development Sean Ekins,2006 Computer Applications in Drug Discovery and Development Ayarivan Puratchikody,Sakthivel Lakshmana Prabu,Appavoo

Umamaheswari,2018-11-23 With more restrictions upon animal experimentations pharmaceutical industries are currently focusing on a new generation of experiments and technologies that are considerably more efficient and less controversial The integration of computational and experimental strategies has led to the identification and development of promising compounds Computer Applications in Drug Discovery and Development is a pivotal reference source that provides innovative research on the application of computers for discovering and designing new drugs in modern molecular biology and medicinal chemistry While highlighting topics such as chemical structure databases and dataset utilization this publication delves into the current panorama of drug discovery where high drug failure rates are a major concern and properly designed virtual screening strategies can be a time saving cost effective and productive alternative This book is ideally designed for chemical engineers pharmacists molecular biologists students researchers and academicians seeking current research on the

unexplored avenues and future perspectives of drug design **Computer Applications in Pharmaceutical Science** S. L. Lim,2019-09-19 Research and development in the pharmaceutical industry is a time consuming and expensive process making it difficult for newly developed drugs to be formulated into commercially available products Both formulation and process development can be optimized by means of statistically organized experiments artificial intelligence and other computational methods Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide Computer aided applications in pharmaceutical technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology chemometric methods with emphasis of their application in process control neural computing It explains how applications are used at various stages The book offers readers a unique framework and systems perspective from which they can devise strategies to thoroughly exploit the use of computers in their organizations during all phases of the discovery and development process This is essential reading for IT professionals and scientists in the pharmaceutical industry as well as researchers involved in informatics The book's cross functional all phases approach provides a unique opportunity for a holistic analysis and assessment of computer applications in pharmaceuticals **9789815223026** Dilpreet Singh, Prashant Tiwari,2024-03-25 Software and Programming Tools in Pharmaceutical Research is a detailed primer on the use for computer programs in the design and development of new drugs Chapters offer information about different programs and computational techniques in pharmacology The book will help readers to harness computer technologies in pharmaceutical investigations Readers will also appreciate the pivotal role that software applications and programming tools play in revolutionizing the pharmaceutical industry The book includes nine structured chapters each addressing a critical aspect of pharmaceutical research and software utilization From an introduction to pharmaceutical informatics and computational chemistry to advanced topics like molecular modeling data mining and high throughput screening this book covers a wide range of topics Key Features Practical Insights Presents practical knowledge on how to effectively utilize software tools in pharmaceutical research Interdisciplinary Approach Bridges the gap between pharmaceutical science and computer science Cutting Edge Topics Covers the latest advancements in computational drug development including data analysis and visualization techniques drug repurposing pharmacokinetic modelling and screening Recommendations for Tools Includes informative tables for software tools Referenced content Includes scientific references for advanced readers The book is an ideal primer for students and educators in pharmaceutical science and computational biology providing a comprehensive foundation for this rapidly evolving field It is also an essential resource for pharmaceutical researchers scientists and professionals looking to enhance their understanding of software tools and programming in drug development

Data Acquisition and Processing in Biology and Medicine Kurt Enslein,1966 **Rich's Business Guide** ,1990
 Computer-Aided Applications in Pharmaceutical Technology Jelena Duris,2013-04-10 Research and development in

the pharmaceutical industry is a time consuming and expensive process making it difficult for newly developed drugs to be formulated into commercially available products Both formulation and process development can be optimized by means of statistically organized experiments artificial intelligence and other computational methods Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide Computer Aided Applications in Pharmaceutical Technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology chemometric methods with emphasis of their application in process control neural computing artificial neural networks fuzzy logic and decision trees evolutionary computing and genetic algorithms self organizing maps computer aided biopharmaceutical characterization as well as application of computational fluid dynamics in pharmaceutical technology All of these techniques are essential tools for successful building of quality into pharmaceutical products and processes from the early stage of their development to selection of the optimal ones In addition to theoretical aspects of various methods the book provides numerous examples of their application in the field of pharmaceutical technology A comprehensive review of the current state of the art on various computer aided applications in pharmaceutical technology Case studies are presented in order to facilitate understanding of various concepts in computer aided applications

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Unveiling the Magic of Words: A Review of "**Computer Applications In Pharmaceutical Research And Development**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Computer Applications In Pharmaceutical Research And Development**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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