



# HANDBOOK OF PERSONALIZED MEDICINE

Advances in Nanotechnology, Drug Delivery, and Therapy

edited by  
Ioannis S. Vizirianakis

# Handbook Of Personalized Medicine Advances In Nanotechnology Drug Delivery And Therapy

**Thierry Vansweevelt, Nicola Glover-  
Thomas**



## **Handbook Of Personalized Medicine Advances In Nanotechnology Drug Delivery And Therapy:**

**Handbook of Personalized Medicine** Ioannis S. Vizirianakis, 2014-02-12 This book compiles multidisciplinary efforts to conceptualize the environment in research and clinical setting that creates the fertile ground for the practical utility of personalized medicine decisions and also enables clinical pharmacogenomics for establishing pharmacotyping in drug prescription. It covers innovative drug formulations and nanotechnology. *Handbook of Personalized Medicine* Ioannis S.

Vizirianakis, 2014-02-12 This book compiles multidisciplinary efforts to conceptualize the environment in research and clinical setting that creates the fertile ground for the practical utility of personalized medicine decisions and also enables clinical pharmacogenomics for establishing pharmacotyping in drug prescription. It covers innovative drug formulations and nanotheranostics, molecular imaging and signatures, translational nanomedicine and informatics, stem cell therapy approaches, modeling and predictability of drug response, pharmacogenetics, guided drug prescription, pediatric drug dosing, pharmacovigilance and regulatory aspects, ethical and cost effectiveness issues, pharmacogenomics knowledge bases, personal genome sequencing, molecular diagnostics as well as information based medicine. Handbook of Clinical

Nanomedicine Raj Bawa, Gerald F. Audette, Brian Reese, 2016-04-27 This unique handbook, 60 chapters, examines the entire product life cycle from the creation of nanomedical products to their final market introduction. While focusing on critical issues relevant to nanoproduct development and translational activities, it tackles topics such as regulatory science, patent law, FDA law, ethics, personalized medicine. **Preventive and Predictive Genetics: Towards Personalised Medicine**

Godfrey Grech, Iris Grossman, 2015-06-24 Pharmacogenomics supports personalized medicine by translating genome based knowledge into clinical practice, offering enhanced benefit for patients and health care systems at large. Current routine practice for diagnosing and treating patients is conducted by correlating parameters such as age, gender and weight with risks and expected treatment outcomes. In the new era of personalized medicine, the healthcare provider is equipped with improved ability to prevent, diagnose, treat and predict outcomes on the basis of complex information sources including genetic and genomic data. Targeted therapy and reliable prediction of expected outcomes offer patients access to better healthcare management by way of identifying the therapies effective for the relevant patient group, avoiding prescription of unnecessary treatment and reducing the likelihood of developing adverse drug reactions. Detection and Analysis of SARS

Coronavirus Chaudhery Mustansar Hussain, Sudheesh K. Shukla, 2021-07-13 Detection and Analysis of SARS Coronavirus. Detecting and analyzing the COVID 19 pandemic with biosensor technology. The highly contagious SARS CoV 2 pathogen has challenged health systems around the world as they struggle to detect and monitor the spread of the pathogen. In Detection and Analysis of SARS Coronavirus, Advanced Biosensors for Pandemic Viruses and Related Pathogens, expert chemists Chaudhery Mustansar Hussain and Sudheesh K Shukla deliver a practical analysis of how contactless coronavirus detectors may be developed using existing biosensor technology. The editors outline current challenges in the field, the bioanalytical

principles for coronavirus detection and available biosensor technology They then move on to how available technology might be adapted to detect coronaviruses and how commercialization of the technology might unfold The lessons learned in this book are readily applicable to the study of other current and emerging pathogens Readers will also enjoy A thorough introduction to the current diagnostic approaches for COVID 19 including common challenges technology adaptation and future potential An exploration of bio analytical strategies for SARS CoV 2 COVID 19 including COVID detection via nanotechnology biosensing approaches and the role of nanotechnology in coronavirus detection Practical discussions of biosensors for the analysis of SARS CoV 2 COVID 19 including sensor development for coronavirus and chemical sensors for coronavirus diagnosis In depth treatments of the commercialization and standardization for analytical technologies Perfect for virologists pharmaceutical industry professionals and sensor developers Detection and Analysis of SARS Coronavirus is also an indispensable resource for those working in analytical research institutes biotechnology industry professionals and public health agency professionals

*Socio-economics of Personalized Medicine in Asia* Shirley Sun, 2016-07-01 The second decade of the twenty first century has witnessed a surging interest in personalized medicine with the concomitant promise to enable more precise diagnosis and treatment of disease and illness based upon an individual s unique genetic makeup In this book my goal is to contribute to a growing body of literature on personalized medicine by tracing and analyzing how this field has blossomed in Asia In so doing I aim to illustrate how various social and economic forces shape the co production of science and social order in global contexts This book shows that there are inextricable transnational linkages between developing and developed countries and also provides a theoretically guided and empirically grounded understanding of the formation and usage of particular racial and ethnic human taxonomies in local national and transnational settings The Open Access version of this book available at <http://www.taylorfrancis.com/doi/view/10.4324/9781315537177> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

*Nanotheranostics for Personalized Medicine* Simona Mura, Patrick Couvreur, 2016 The application of nanotechnology in the biomedical field known as nanomedicine has gained much interest in the recent past as a versatile strategy for selective drug delivery and diagnostic purposes The nanotheranostic approach which aims to combine both therapeutic and imaging diagnostic functionalities is characterized by a strong pluridisciplinarity where the chemistry of materials bioconjugate chemistry pharmaceutical technology drug delivery imaging and pharmacology work together Nanotheranostics combine simultaneous non invasive diagnosis and treatment of diseases with the exciting possibility to monitor drug release and distribution in real time thus offering the opportunity to optimize treatment outcomes in cancer and other severe diseases Clinical applications of nanotheranostics would enable earlier detection and treatment of diseases and earlier assessment of the response thus allowing to identify patients which would potentially respond to therapy and have higher possibilities of a favorable outcome Nanotheranostics for Personalized Medicine presents an integrated and transdisciplinary description of nanotheranostics It

provides principles of imaging techniques and concrete examples of advances and challenges in the development of nanotheranostics for personalized medicine This book is written for students Bachelors to Doctoral level as well as experienced researchers in academia or the industry interested in this emerging concept in the nanomedicine field Provided by publisher

**Quantitative Methods for Precision Medicine** Rongling Wu, 2022-12-26 Modern medicine is undergoing a paradigm shift from a one size fits all strategy to a more precise patient customized therapy and medication plan While the success of precision medicine relies on the level of pharmacogenomic knowledge dissecting the genetic mechanisms of drug response in a sufficient detail requires powerful computational tools Quantitative Methods for Precision Medicine Pharmacogenomics in Action presents the advanced statistical methods for mapping pharmacogenetic control by integrating pharmacokinetic and pharmacodynamic principles of drug body interactions Beyond traditional reductionist based statistical genetic approaches statistical formulization in this book synthesizes elements of multiple disciplines to infer visualize and track how pharmacogenes interact together as an intricate but well coordinated system to mediate patient specific drug response Features Functional and systems mapping models to characterize the genetic architecture of multiple medication processes Statistical methods for analyzing informative missing data in pharmacogenetic association studies Functional graph theory of inferring genetic interaction networks from association data Leveraging the concept of epistasis to capture its bidirectional signed and weighted properties Modeling gene induced cell cell crosstalk and its impact on drug response A graph model of drug drug interactions in combination therapies Critical methodological issues to improve pharmacogenomic research as the cornerstone of precision medicine This book is suitable for graduate students and researchers in the fields of biology medicine bioinformatics and drug design and delivery who are interested in statistical and computational modelling of biological processes and systems It may also serve as a major reference for applied mathematicians computer scientists and statisticians who attempt to develop algorithmic tools for genetic mapping systems pharmacogenomics and systems biology It can be used as both a textbook and research reference Professionals in pharmaceutical sectors who design drugs and clinical doctors who deliver drugs will also find it useful

**MEDINFO 2017: Precision Healthcare through Informatics** Marie-Christine Jaulent, Dongsheng Zhao, 2018-01-15 Medical informatics is a field which continues to evolve with developments and improvements in foundational methods applications and technology constantly offering opportunities for supporting the customization of healthcare to individual patients This book presents the proceedings of the 16th World Congress of Medical and Health Informatics MedInfo2017 held in Hangzhou China in August 2017 which also marked the 50th anniversary of the International Medical Informatics Association IMIA The central theme of MedInfo2017 was Precision Healthcare through Informatics and the scientific program was divided into five tracks connected and digital health human data science human organizational and social aspects knowledge management and quality and safety and patient outcomes The 249 accepted papers and 168 posters included here span the breadth and depth of sub disciplines in biomedical and

health informatics such as clinical informatics nursing informatics consumer health informatics public health informatics human factors in healthcare bioinformatics translational informatics quality and safety research at the intersection of biomedical and health informatics and precision medicine The book will be of interest to all those who wish to keep pace with advances in the science education and practice of biomedical and health informatics worldwide The Road from Nanomedicine to Precision Medicine Shaker A. Mousa,Raj Bawa,Gerald F. Audette,2020-01-06 The enormous advances in nanomedicine and precision medicine in the past two decades necessitated this comprehensive reference which can be relied upon by researchers clinicians pharmaceutical scientists regulators policymakers and lawyers alike This standalone full color resource broadly surveys innovative technologies and advances pertaining to nanomedicine and precision medicine In addition it addresses often neglected yet crucial areas such as translational medicine intellectual property law ethics policy FDA regulatory issues nano nomenclature and artificial nano machines all accomplished in a user friendly broad yet interconnected format The book is essential reading for the novice and the expert alike in diverse fields such as medicine law pharmacy genomics biomedical sciences ethics and regulatory science The book s multidisciplinary approach will attract a global audience and serve as a valuable reference resource for industry academia and government Omics Applications for Systems Biology Wan Mohd Aizat,Hoe-Han Goh,Syarul Nataqain Baharum,2018-10-31 This book explains omics at the most basic level including how this new concept can be properly utilized in molecular and systems biology research Most reviews and books on this topic have mainly focused on the technicalities and complexity of each omics platform impeding readers to wholly understand its fundamentals and applications This book tackles such gap and will be most beneficial to novice in this area university students and even researchers Basic workflow and practical guidance in each omics are also described such that scientists can properly design their experimentation effectively Furthermore how each omics platform has been conducted in our institute INBIOSIS is also detailed a comprehensive example on this topic to further enhance readers understanding The contributors of each chapter have utilized the platforms in various manner within their own research and beyond The contributors have also been interactively integrated and combined these different omics approaches in their research being able to systematically write each chapter with the conscious knowledge of other inter relating topics of omics The potential readers and audience of this book can come from undergraduate and postgraduate students who wish to extend their comprehension in the topics of molecular biology and big data analysis using omics platforms Furthermore researchers and scientists whom may have expertise in basic molecular biology can extend their experimentation using the omics technologies and workflow outlined in this book benefiting their research in the long run **Informed Consent and Health** Thierry Vansweevelt,Nicola Glover-Thomas,2020-04-24 Informed consent is the legal instrument that purports to protect an individual s autonomy and defends against medical arbitrariness This illuminating book investigates our evolving understanding of informed consent from a range of comparative and international perspectives demonstrating the diversity

of its interpretations around the world Chapters offer a nuanced analysis of the problems that impede the understanding and implementation of the concept of informed consent and explore the contemporary challenges that continue to hinder both the patient and the medical community

**Handbook of Lung Targeted Drug Delivery Systems** Yashwant Pathak, Nazrul Islam, 2021-10-17 Handbook of Lung Targeted Drug Delivery Systems Recent Trends and Clinical Evidences covers every aspect of the drug delivery to lungs the physiology and pharmacology of the lung modelling for lung delivery drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications With the advent of nano sciences and significant development in the nano particulate drug delivery systems there has been a renewed interest in the lung as an absorption surface for various drugs The emergence of the COVID 19 virus has brought lung and lung delivery systems into focus this book covers new developments and research used to address the prevention and treatment of respiratory diseases Written by well known scientists with years of experience in the field this timely handbook is an excellent reference book for the scientists and industry professionals Key Features Focuses particularly on the chemistry clinical pharmacology and biological developments in this field of research Presents comprehensive information on emerging nanotechnology applications in diagnosing and treating pulmonary diseases Explores drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications Examines specific formulations targeted to pulmonary systems

**Governing Intellectual Property Rights Within Publicly Funded Biobanks** Rajam Neethu, 2019-06-21 Governing Intellectual Property Rights Within Publicly Funded Biobanks R Neethu The boom in biobanks and health databases as research infrastructures have evoked various legal and ethical debates Since then numerous new developments have emerged such as digitalization big data research and artificial intelligence which has important implications for biobank based research and collaborations This new paradigm offers new legal challenges for commercial involvement particularly within a publicly funded setting In this innovative book the author shows that securing maximum social benefit out of the knowledge emanating from the use of biobank resources lies in managing intellectual property inputs and outputs effectively in keeping with the values core to such research Focusing on the challenges of involving intellectual property rights IPRs particularly in the precompetitive phase of biobank based research the book offers an extensive understanding of the role of different IPRs and identifies the gaps in the law and its implications for biobanks The analysis covers important aspects in relation to biobanks such as Digital integration and biomedical data storage Ownership of biological samples Commercialization and benefit sharing Partnership models Public sector research Disposition of samples Consent Cross border exchange Trade secrecy Privacy Regulatory stewardship Business strategies Ethical considerations over biological resources Patenting of inventions relating to personalized medicine Ethical parameters within patent law and Rights regarding genetic data and databases The book includes observations case studies and interviews conducted by the author In conclusion the author offers cogent recommendations for legal interoperability of IP rules and research practices designed to

enhance the ability of biobanks to share access and reuse data This book is the first of its kind to explore the organizational and legislative choices for biobanks particularly while engaging in the protection of research results and technology transfer within a publicly funded setting It will be of substantial interest to all stakeholders in biobanking especially policymakers biobankers and researchers working in the field of health law as well as for legal practitioners academics and patient interest groups

*Evidence-based Gastroenterology and Hepatology* John W. D. McDonald, Brian G. Feagan, Rajiv Jalan, Peter J. Kahrilas, 2019-02-20 The revised fourth edition of Evidence Based Gastroenterology and Hepatology continues to provide the most current evidence based information for determining the appropriate medical and surgical options for screening for diagnosing and treating gastrointestinal conditions With contributions from an international team of leading experts in the field the 4th edition includes practical recommendations for the care of individual patients based on the latest scientific evidence

**Handbook of Nanomaterials for Cancer Theranostics** Joao Conde, 2018-06-27 Handbook of Nanomaterials for Cancer Theranostics focuses on recent developments in advanced theranostic nanomedicines from a chemical and biological perspective where the advantages of theranostics are achieved by combining multiple components The authors explore the pros and cons of theranostic nanomaterials developed in cancer research in the last 15 years with the different strategies compared and scrutinized In addition the book explores how nanomaterials may overcome the regulatory hurdles facing theranostic nanomedicines This is an important research reference for postgraduates and researchers in nanomedicine and cancer research who want to learn more on how nanomaterials can help create more effective cancer treatments Highlights the development of smart theranostic nanomaterials to tackle biomedical problems in cancer therapy and diagnostics Explores the regulatory hurdles facing theranostic nanomedicine Discusses how the use of nanomaterials can help create more effective cancer treatments

**Handbook of Biomaterials for Medical Applications, Volume 1** Deepa Suhag, Swati Kaushik, Vinod Bala Taxak, 2024-07-23 Handbook on Biomaterials for Medical Applications Fundamentals is a critical monograph that merges advanced technological insights with practical applications in biomedical materials science It navigates through the intricate blend of theoretical knowledge and real world medical practices highlighting the significant roles these materials play in enhancing therapeutic outcomes Addressing the interdisciplinary nature of the field the book incorporates perspectives from chemistry biology engineering and clinical medicine This comprehensive guide covers novel biomaterials advanced drug delivery systems innovative tissue engineering and the emerging field of theranostics providing a holistic view of how these elements drive medical advancements This book can be a valuable reference for scholars researchers and healthcare practitioners Its text is richly illustrated with diagrams and tables facilitating both the understanding and application of complex concepts With an educational narrative accessible to both experts and beginners the monograph encourages a passion for innovation and a deep understanding of the transformative potential of multifunctional biomedical materials It invites readers to explore the confluence of materials science and therapeutic



innovation setting the stage for future breakthroughs in medical science and therapy It can also be prescribed as a textbook for various graduate and undergraduate courses like tissue engineering and regenerative medicine nanomedicine biomedical engineering and biomaterials science and engineering      *Advances in Cancer Nanotheranostics for Experimental and Personalized Medicine* Yusuf Tutar,2020-06-08 Nanotheranostics is a recent medical field which integrates diagnostic imaging protocols and therapeutic functions to monitor real time drug release in the body and distribution to the target site The combined processes allow technicians to observe the effectiveness of a specifically designed drug candidate and predict its possible side effects All these features help clinicians in optimizing treatment options for cancer and other diseases for the individual patient Current research is tailored to individual therapy because each drug may display a variety of responses depending on variations in an individual s genetics and subsequently their clinical biochemistry Many tumors are still challenging for therapists in terms of available treatment and nanotheranostic strategies may help them to combat cancer more efficiently *Advances in Cancer Nanotheranostics for Experimental and Personalized Medicine* presents information about current theranostic technologies in use at clinics and recent research on nanotheranostic applications with a focus on cancer treatment Information is presented in seven organized chapters that cover the basics of cancer nanotheranostics tumor microenvironmental factors gene therapy and gene delivery concepts and the combined application of diagnostic imaging with cancer chemotherapy A chapter focusing on the role of non coding MRNAs in breast cancer carcinogenesis is also included giving readers a glimpse of the complexities in the molecular biology of cancer which drive the need for new theranostic technologies The book is of interest to medical professionals including oncologists and specialists in internal medicine diagnostic imaging technicians and researchers in the fields of pharmacology molecular biology and nuclear medicine      Handbook of Safety Assessment of Nanomaterials Bengt Fadeel,2014-12-10 The rapidly evolving field of nanomedicine refers to the clinical application of nanotechnologies However as with all new technologies there are ethical safety and regulatory issues This handbook written by leading international experts provides a meticulous overview of the state of the art of safety assessment of nanomaterials nanotoxicol      **Handbook of Preformulation** Sarfaraz K. Niazi,2019-03-22 Preformulation studies are the physical chemical and biological studies needed to characterize a drug substance for enabling the proper design of a drug product whereas the effectiveness of a drug product is determined during the formulation studies phase Though the two disciplines overlap in practice each is a significantly distinct phase of new drug development Entirely focused on preformulation principles this fully revised and updated Handbook of Preformulation Chemical Biological and Botanical Drugs Second Edition provides detailed descriptions of preformulation methodologies gives a state of the art description of each technique and lists the currently available tools useful in providing a comprehensive characterization of a new drug entity Features Addresses the preformulation studies of three different types of new active entities chemical biological and botanical which is the latest established class of active ingredient classified by

the FDA Illustrates the activities comprised in preformulation studies and establishes a method of tasking for drug development projects Includes extensive flow charts for characterization decision making Gives extensive theoretical treatment of principles important for testing dissolution solubility stability and solid state characterization Includes over 50% new material

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