

Eliana B. Souto *Editor*

# Patenting Nanomedicines

Legal Aspects, Intellectual Property  
and Grant Opportunities

 Springer

# Patenting Nanomedicines Legal Aspects Intellectual Property And Grant Opportunities

**Anshu Mathur**



## **Patenting Nanomedicines Legal Aspects Intellectual Property And Grant Opportunities:**

**Patenting Nanomedicines** Eliana B. Souto, 2012-07-06 Patenting Nanomedicines Legal Aspects Intellectual Property and Grant Opportunities focusses on the fundamental aspects of Patenting Nanomedicines applied in different Drug Delivery and Targeting Systems The promoters of new findings in this field of research are numerous and spread worldwide therefore managing intellectual property portfolios and the acquisition and exploitation of new knowledge face several contingency factors Today the scientific community is discussing issues of economic outcomes in the field of Nanomedicines Major concerns include questions as to whether the research groups academics industry and other stakeholders should work in unison or independently if innovation or adaptation of new technology should be prioritized public versus private research funding and safeguarding versus sharing knowledge However despite its increasing importance for humankind it is a matter of concern as to whether technological development can really be stimulated by patent protection An intellectual property strategy should aim to develop a qualitative patent portfolio for continuous learning This book addresses questions of ethics socio political policies and regulatory aspects of novel Nanomedicine based products which are currently under development for the diagnosis and treatment of different types of diseases It is divided in two parts Part I is composed of the first 3 chapters which focus on the fundamentals of legal aspects emerging threats advantages and disadvantages of patenting Nanomedicines whereas Part II collects 12 chapters discussing different types of Nanomedicine based products their potential marketing aspects and patent protection Whenever applied each chapter offers a list of patents based on a specific application in drug delivery and targeting An outstanding team of 53 authors have contributed to this book which will be of interest to professionals from the field of patent examiners academics researchers and scientists students and other practitioners

**Nanomedicine Manufacturing and Applications** Francis Verpoort, Ikram Ahmad, Awais Ahmad, Anish Khan, Ching Yern Chee, 2021-06-22 Nanomedicine explores the modification and enhancement of the properties and performances of typical drugs to treat various diseases Nano based medicines have advantages in several ways such as in nanotherapeutics nanotheranostics and nanodiagnostics Nanomedicine Manufacturing and Applications effectively explores the major manufacturing techniques and applications of nanomaterial based medicine in the areas of chemotherapy biochips insulin pumps and other treatment methods This book explains how nanomedicines are developed from nanoparticles as well as their biomedical and other applications related to healthcare This book is an important reference source for nanoscientists biomaterials scientists and biomedical engineers who want to learn more about how nano based medicines are made and used Outlines the process of making nanomedicine as well as nanodrug carriers with a focus on nanomedicine for cancer treatment Explains the formulation and manufacturing process of nanomedicines showing how to build these materials Demonstrates how nano based medicines are being used to tackle a range of diseases in a way that conventional medicines cannot

**The SAGE Encyclopedia of Pharmacology and Society** Sarah E. Boslaugh, 2015-09-15 The SAGE Encyclopedia

of Pharmacology and Society explores the social and policy sides of the pharmaceutical industry and its pervasive influence in society While many technical STM works explore the chemistry and biology of pharmacology and an equally large number of clinically oriented works focus on use of illegal drugs substance abuse and treatment there is virtually nothing on the immensely huge business Big Pharma of creating selling consuming and regulating legal drugs With this new Encyclopedia the topic of socioeconomic business and consumer and legal and ethical issues of the pharmaceutical industry in contemporary society around the world are addressed Key Features 800 signed articles authored by prominent scholars are arranged A to Z and published in a choice of electronic or print formats Although arranged A to Z a Reader s Guide in the front matter groups articles by thematic areas Front matter also includes a Chronology highlighting significant developments in this field All articles conclude with Further Readings and Cross References to related articles Back matter includes an annotated Resource Guide to further research a Glossary Appendices e g statistics on the amount and types of drugs prescribed etc and a detailed Index The Index Reader s Guide and Cross References combine for search and browse capabilities in the electronic edition The SAGE Encyclopedia of Pharmacology and Society is an authoritative and rigorous source addressing the pharmacology industry and how it influences society making it a must have reference for all academic libraries as a source for both students and researchers to utilize

Innovative Brain Tumor Therapy Gerardo Caruso, Lucia Merlo, Maria Caffo, 2014-10-10 Despite recent advances therapeutic efforts have not been successful establishing a definitive strategy of treatment for brain gliomas because of the presence of the blood brain barrier Innovative Brain Tumor Therapy presents a synopsis of the studies on nanoparticles as ideal devices for brain tumor treatment Their nanometric size electrostatic charge and lipophilic characteristics allow them to penetrate into the brain tissue freely Promising in vitro results have been reported but remain to be validated in humans This title focuses on the blood brain barrier pathophysiology in brain tumors and the possibilities of overcoming this with nanoparticle based systems Relevant patents of nanoparticles used as drug delivery carriers are also reported as well as future scenarios in nanoparticles and stem cells

**Nanotechnology in Cancer** Anshu Mathur, 2016-10-20 Nanotechnology in Cancer covers current nanotechnology based nanotherapeutics involving gold nanoparticles colloids gels magnetic nanoparticles radiofrequency gene therapy biological particles and the intermolecular interactions associated with nanoparticle based cancer therapy in vivo Different cancer types and locations are considered alongside the corresponding treatment types and the use of imaging technologies and animal models are also explored Both scientific and clinical aspects are considered by authors coming from both fields with the authors using their backgrounds from different disciplines to make the connection between cancer and effective drug delivery and therapeutic strategies Authored by leaders from the scientific research and clinical communities who use their background from different disciplines to explore the connections between cancer and effective drug delivery and therapeutic strategies Brings together tumor biology imaging technologies nanomaterial platforms for drug delivery therapeutic

strategies and reconstructive surgery Explores the clinical and regulatory challenges facing nanomedicine Application of Nanoparticles in Brain Tumor Treatment Gerardo Caruso,2012-08-10 Despite progress in surgery radiotherapy and chemotherapy an effective treatment of gliomas does not yet exist This new monograph in the ASME Momentum Press series on Biomedical Nanomedical Technologies book shows how nanotechnology could be used both to improve the treatment efficacy and to reduce the adverse side effects It will explain how nanotechnology based approaches to targeted delivery of drugs across the brain blood barrier may potentially be engineered to carry out specific functions as needed *Applications of Nanocomposite Materials in Drug Delivery* Inamuddin,Abdullah M. Asiri,Ali Mohammad,2018-06-18 Applications of Nanocomposite in Drug Delivery discusses and explores the applications of nanocomposites in the area of drug delivery Starting with a scientific understanding of drug delivery fundamentals the book explores the utility of nanocomposites in the area of controlled transdermal osteo articular tuberculosis and stimulus sensitive drug delivery applications The book intricately details and discusses a variety of methods for their preparation while also highlighting specific applications of nanocomposites in targeted drug delivery Discusses nanocomposite and nanotechnology for drug delivery Outlines the mechanisms involved in targeted drug delivery using nanocomposites Includes synthesis methods for nanocomposites used in controlled drug delivery Lists various applications of nanocomposites in drug delivery **Nanoarchitectonics for Smart Delivery and Drug Targeting** Alina Maria Holban,Alexandru Mihai Grumezescu,2016-07-12 Nanoarchitectonics for Smart Delivery and Drug Targeting is one of the first books on the market to exclusively focus on the topic of nanoarchitectonics a rapidly developing area of nanotechnology which allows scientists to arrange nanoscale structural units typically a group of atoms or molecules in an intended configuration This book assesses novel applications of nanomaterials in the areas of smart delivery and drug targeting using nanoarchitectonics and discusses the advantages and disadvantages of each application Provides a scholarly introduction to the uses of nanoarchitectonics in drug delivery and targeting Explores novel opportunities and ideas for developing and improving nanoscale drug delivery systems through the use of nanoarchitectonics allowing scientists to see how this exciting new technology is used in practice Assesses the pros and cons of each application allowing readers to assess when it is most appropriate to use nanoarchitectonics in drug delivery **Nanoparticle Therapeutics** Prashant Kesharwani,Kamalinder K. Singh,2021-11-06 Nanoparticle therapeutics Production Technologies Types of Nanoparticles and Regulatory Aspects employs unique principles for applications in cell based therapeutics diagnostics and mechanistics for the study of organ physiology disease etiology and drug screening of advanced nanoparticles and nanomaterials The book focuses on the extrapolation of bioengineering tools in the domain of nanotechnology and nanoparticles therapeutics fabrication characterization and drug delivery aspects It acquaints scientists and researchers on the experiential and experimental aspects of nanoparticles and nanotechnology to equip their rational application in various fields especially in differential diagnoses and in the treatment of diverse diseased states This complete

resource provides a holistic understanding of the principle behind formation characterization applications regulations and toxicity of nanoparticles employing myriad principles of nanotechnology Investigators pharmaceutical researchers and advanced students working on technology advancement in the areas of designing targeted therapies nanoscale imaging systems and diagnostic modalities in human diseases where nanoparticles can be used as a critical tool for technology advancement in drug delivery systems will find this book useful Brings together the novel applications of nanotechnology in biological fields Explores perspectives on technologies through highly organized tables illustrative figures and flow charts Addresses key multidisciplinary challenges faced by nanotechnologists to foster collaboration among biologists chemists physicists engineers and clinicians

*Wireless Computing in Medicine* Mary Mehrnoosh Eshaghian-Wilner, 2016-07-05

Provides a comprehensive overview of wireless computing in medicine with technological medical and legal advances This book brings together the latest work of leading scientists in the disciplines of Computing Medicine and Law in the field of Wireless Health The book is organized into three main sections The first section discusses the use of distributed computing in medicine It concentrates on methods for treating chronic diseases and cognitive disabilities like Alzheimer s Autism etc It also discusses how to improve portability and accuracy of monitoring instruments and reduce the redundancy of data It emphasizes the privacy and security of using such devices The role of mobile sensing wireless power and Markov decision process in distributed computing is also examined The second section covers nanomedicine and discusses how the drug delivery strategies for chronic diseases can be efficiently improved by Nanotechnology enabled materials and devices such as MENs and Nanorobots The authors will also explain how to use DNA computation in medicine model brain disorders and detect bio markers using nanotechnology The third section will focus on the legal and privacy issues and how to implement these technologies in a way that is a safe and ethical Defines the technologies of distributed wireless health from software that runs cloud computing data centers to the technologies that allow new sensors to work Explains the applications of nanotechnologies to prevent diagnose and cure disease Includes case studies on how the technologies covered in the book are being implemented in the medical field through both the creation of new medical applications and their integration into current systems Discusses pervasive computing s organizational benefits to hospitals and health care organizations and their ethical and legal challenges

*Wireless Computing in Medicine From Nano to Cloud with Its Ethical and Legal Implications* is written as a reference for computer engineers working in wireless computing as well as medical and legal professionals The book will also serve students in the fields of advanced computing nanomedicine health informatics and technology law

Direito e Nanobiotecnociência - Reflexões na Encruzilhada da Inovação, do Risco e da Crise do(s) Direito(s) Eduardo António da Silva Figueiredo, 2023-06-09

O hodierno progresso cientifico tecnológico nas áreas da genética e da nanotecnologia tem avançado velocidade da luz acarretando consigo incontáveis potencialidades mas também riscos significativos A urgência e complexidade dos desafios emergentes da utilização destes disruptivos expedientes nanobiotecnocientíficos em contexto de

presta o de cuidados de sa de imp e a todos os cidad os uma reflex o profunda em torno do seu impacto mormente sobre os direitos e liberdades fundamentais da pessoa e a sua dignidade A presente obra procura tra ar um roteiro para uma discuss o tico jur dica em torno de algumas das quest es candentes da medicina do futuro numa altura em que a rela o entre a ci ncia o Direito e a sociedade tem sido colocada em causa e se depara com in meras crises **The Handbook of Nanomedicine**

Kewal K. Jain,2017-03-20 Nanomedicine is defined as the application of nanobiotechnology in clinical medicine which is currently being used to research the pathomechanism of disease refine molecular diagnostics and aid in the discovery development and delivery of drugs In The Handbook of Nanomedicine Third Edition Prof Kewal K Jain updates reorganizes and replaces information in the comprehensive second edition in order to capture the most recent advances in this dynamic field Important components of nanomedicine such as drug delivery via nanobiotechnology and nanopharmaceuticals as well as nanooncology where the greatest number of advances are occurring are covered extensively As this text is aimed at nonmedical scientists pharmaceutical personnel as well as physicians descriptions of the technology involved and other medical terminology are kept as clear and simple as possible In depth and cutting edge The Handbook of Nanomedicine Third Edition informs its readers of the ever growing field of nanomedicine destined to play a significant role in the future of healthcare

**Contemporary Issues in Intellectual Property Law in Africa** Olasupo Owoeye,2024-10-16 This book discusses the impact of intellectual property and international investment agreements within Africa It investigates how African nations can enhance their current intellectual property legislation across various regions of the continent while simultaneously fostering the development of local industries and stimulating innovation and creativity within the region Despite intellectual property remaining a major issue in global trade governance African countries have room to maximise the advantages that global intellectual property law can offer Highlighting discourse on investment intellectual property and competition policies in Africa the book underscores the need for African nations to develop intellectual property frameworks that can facilitate economic transformation Using data from international intellectual property conventions WTO dispute settlements and African regional organisation conventions the book is a comprehensive call to action for African intellectual property lawyers and policymakers The book will be of interest to students and scholars in the field of intellectual property law and international investment law

**The Road from Nanomedicine to Precision Medicine** Shaker A. Mousa,Raj Bawa,Gerald F. Audette,2020-01-17 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      Commercial Scale Production of Nanomedicines Aliasgar Shahiwala,Ajay J.

Khopade,Vandana B. Patravale,2025-08-21 The commercial production of nanomedicines involves challenges related to scalability reproducibility safety and regulatory approvals It is essential to have access to a preparation method that can produce large quantities of nanomedicines in a scalable way while maintaining a consistently high level of quality and batch to batch reproducibility This book provides comprehensive guidance on the commercial scale production of nanotechnology based products facilities requirements and quality assurance Authored by industrial and academic experts Offers regulatory guidance on the chemistry manufacturing and controls CMC of nanoparticles and commercial translation of nanomedicines from the lab to market Features case studies of successfully marketed nanotechnologies This book serves as a valuable resource for students and researchers in pharmaceuticals pharmaceutical technology drug delivery drug targeting and biomedical engineering It also supports industrial personnel working in nanomedicine manufacturing with the latest updates and those seeking to switch or extend their current product range to nanomedicines or start a new venture in nanomedicine production      **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      **Nanotechnology & Society** Fritz

Allhoff,Patrick Lin,2008-04-03 Nanotechnology risk and regulation industry and policy the human condition and selected global issues The essays tackle such contentious issues as environmental impact health dangers medical benefits intellectual property professional code of ethics privacy international governance and more      *Biological Applications of Nanoparticles*

Biplab Sarkar,Avinash Sonawane,2023-12-12 This textbook for graduate and postgraduate students provides comprehensive applications of nanoparticles in medicine agriculture and environmental sciences The initial chapter covers basic topics related to types synthesis structure and properties of various nanoparticles It further discusses the wide range of applications of nanoparticles in medicine agriculture and the environment The book presents nano electronic biosensors that are used to diagnose and monitor the progression of human diseases It summarizes the opportunities and challenges of nanotechnology in the agriculture and food sector highlighting the scientific technical regulatory safety and societal impacts Additionally it illustrates the applications of nanotechnology in the field of aquaculture medicine bioinformatics and food technology The textbook examines the development and administration of nano medicines their applications advantages and limitations for the treatment and prophylaxis of a broad range of diseases Lastly the textbook explores the recent advances in the field of nanobusiness and nanotechnology issues in intellectual property management IPR      *Nanoscale* Nigel



Cameron, M. Ellen Mitchell, 2007-08-13 An authoritative examination of the present and potential impact of nanoscale science and technology on modern life Because truly transformative technologies have far reaching consequences they always generate controversy Establishing an effective process for identifying and understanding the broad implications of nanotechnology will advance its acceptance and success impact the decisions of policymakers and regulatory agencies and facilitate the development of judicious policy approaches to new technology options Nanoscale Issues and Perspectives for the Nano Century addresses the emerging ethical legal policy business and social issues A compilation of provocative treatises this reference Covers an area of increasing research and funding Organizes topics in four sections Policy and Perspectives Nano Law and Regulation Nanomedicine Ethics and the Human Condition and Nano and Society The NELSI Imperative Presents differing perspectives with views from nanotechnology s most ardent supporters as well as its most vocal critics Includes contributions from professionals in a variety of industries and disciplines including science law ethics business health and safety government regulation and policy This is a core reference for professionals dealing with nanotechnology including scientists from academia and industry policy makers ethicists and social scientists safety and risk assessment professionals investors and others It is also an excellent text for students in fields that involve nanotechnology

**Nanotechnology and Human Health** Ineke Malsch, Claude Emond, 2016-04-19 Addressing medium and long term expectations for human health this book reviews current scientific and technical developments in nanotechnology for biomedical agrofood and environmental applications This collection of perspectives on the ethical legal and societal implications of bionanotechnology provides unique insight into contemporary te

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