



Receptor-Mediated Targeting of Drugs

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NATO ASI Series

Series A: Life Sciences Vol. 82

Receptor Mediated Targeting Of Drugs

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Ronald Berenson**



Receptor Mediated Targeting Of Drugs:

Receptor-Mediated Targeting of Drugs G. Gregoriadis, 2013-06-29 Conventional attempts to control cell behaviour and function are often marred by the toxicity of the drugs used their premature waste or inactivation or by their inability to interact with or reach target sites efficiently New trends in pharmacology emphasize the development of methods for the optimization of drug action for instance by the delivery of drugs enzymes hormones antigens genetic material etc through carrier systems selectively to relevant cellular and subcellular sites A wide assortment of carriers was discussed in the first NATO Advanced Studies Institute ASI Targeting of Drugs the proceedings of which were published by Plenum Press in 1982 eds G Gregoriadis J Senior and A Trouet This book containing the proceedings of the 2nd NATO ASI Receptor Mediated Targeting of Drugs held again at Cape Sounion Greece during 20 June 1 July 1983 deals with drug delivery through systems possessing ligands which can recognize and interact with receptors on the target's surface Receptor recognizing carriers that have recently given promise of realistic expectations in targeting include monoclonal antibodies certain proteins that home to specific cells in the body and liposomes either as such when they can trigger specific reactions in the reticuloendothelial system or in association with targeting macromolecules Each of these are discussed extensively by leading authorities in terms of applications in biology and medicine and related methodologies

Targeting of Drugs

Gregory Gregoriadis, Brenda McCormack, 2000 Subject index c Book News Inc Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis Padma V. Devarajan, Prajakta Dandekar, Anisha A. D'Souza, 2019-11-09 This book elaborates on drug delivery targeting via intracellular delivery specifically through the Receptor Mediated Endocytosis RME approach due to the involvement of cellular receptors in various grave diseases Targeted delivery relies on two basic approaches passive and active targeting While passive targeting approaches have shown great promise the improved selectivity achieved with active targeting approaches has resulted in significantly higher efficacy Interestingly there are numerous strategies for active targeting many of which are already highlighted in Targeted Drug Delivery Concepts and Applications Nevertheless an exciting and practical strategy for active targeting which could enable high intracellular delivery is through exploitation of RME Cells in the body express receptors to enable various physiological and biochemical processes As a result many of these receptors are overexpressed in pathological conditions or newer receptors expressed due to defective cellular functioning RME is based on exploitation of such receptors to achieve intracellular delivery While targeted delivery can have manifold applications in this book we focus on two major and challenging therapeutic areas i Cancer and ii Infectious Diseases Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis discusses the major receptors that are useful for targeted delivery for these afflictions A major section of this book is dedicated to details regarding their occurrence and location the recognition domain of the receptor structure activity relationship of substrate ligand for selective binding ligands explored antagonists for ligand binding and relevance of these aspects for therapy of cancer and infectious diseases These

facets are elucidated with the help of specific examples from academic research and also emphasize commercial products wherever relevant In vitro cellular models relied on for assessing receptor mediated cellular targeting and in vivo models depicting clinical efficacy are focused on in a separate section Finally we briefly discuss the regulatory and toxicity issues that may be associated specifically with the RME approach of intracellular drug delivery

Targeting of Drugs 4 Gregory Gregoriadis, Brenda McCormack, George Poste, 2013-11-11 The NATO Advanced Studies Institute series Targeting of Drugs was originated in 1981 It is now a major international forum held every two years in Cape Sounion Greece in which the present and the future of this important area of research in drug delivery is discussed in great depth Previous ASIs of the series dealt with drug carriers of natural and synthetic origin their interaction with the biological milieu ways by which the latter influences such interaction strategies by which milieu interference curtailing the function of drug carriers is circumvented and more recently with the application of drug carriers for the delivery of peptides and proteins The present book contains the of the 7th NATO ASI Targeting of Drugs Advances in System Constructs proceedings held in Cape Sounion during 24 June 5 July 1993 As the title implies the book deals with a variety of approaches to carrier design or modification that contribute to optimal carrier function to Mrs Concha Perring for her assistance with the We express our appreciation organization of the ASI We thank Dr G Deliconstantinos who as chairperson of the Local Committee contributed to the success of the Institute The ASI was held under the sponsorship of NATO Scientific Affairs Division and co sponsored and generously financed by SmithKline Beecham Pharmaceuticals King of Prussia Financial assistance was also provided by Liposome Technology Inc Menlo Park Vestar Inc San Dimas and Zeneka Macclesfield

Ligands for Targeted Drug Delivery Vikas Pandey, Rajeev Sharma, Tanweer Haider, Dinesh Kumar Mishra, 2025-05-23 Ligands for Targeted Drug Delivery Basic Fundamentals and Applications is a comprehensive reference focused on the many ways drug carriers can be functionalized to target specific organs tissues cells and sub cellular compartments Chapters cover the basic concepts of targeted drug delivery describing multiple levels of targets and challenges along with approaches for target specific drug delivery and a thorough overview of the challenges in design and application of ligands Following sections discuss nanoparticles and the main ligand classes with their respective applications The final chapters discuss future prospects of the technology and clinical aspects of ligand modified drug delivery systems This is a key reference to drug delivery researchers dealing with the application of ligands to overcome challenges in delivering their active principles to the target structure Biomedical engineers materials scientists and chemists can also benefit from the through description of ligand classes and their potential to improve drug delivery efficiency Provides foundational information on targeted drug delivery at organ tissue cellular and sub cellular levels Compares active and passive targeting and their applications Summarizes the wider classes of ligands used for drug delivery Presents a strategic thinking framework for pairing nanocarriers with appropriate ligands for enhanced therapeutic efficacy

Brain Targeted Drug Delivery Systems Huile Gao, Xiaoling Gao, 2018-09-20 Brain

Targeted Drug Delivery Systems A Focus on Nanotechnology and Nanoparticulates provides a guide on nanoparticulates to both academic and industry researchers The book discusses key points in the development of brain targeted drug delivery summarizes available strategies and considers the main problems and pitfalls evidenced in current studies on brain targeted drug delivery systems As the brain is the most important organ in the human body and disorders of the central nervous system CNS are the most serious threat to human life this book highlights advances and new research in drug delivery methods to the brain Provides an overview of brain targeting drug delivery that is useful to both academic and industry based researchers Discusses key points in developing brain targeting drug delivery systems Summarizes and presents currently available strategies for brain targeting drug delivery Covers not only current studies and their strengths but also gives insight into the pitfalls of current research

Advanced Drug Delivery Systems for Colonic Disorders Harish Dureja,Raimar Loebenberg,Sachin Kumar Singh,Muralikrishnan Dhanasekaran,Kamal Dua,2023-11-04 Advanced Drug Delivery Systems for Colonic Disorders present the current state of the art methods for targeted drug delivery to the colon These methods can prolong drug half lives improve bioavailability optimize pharmacokinetics and reduce medication dosing frequency Chapters are written in a way that allows the audience to not only become familiar with the most recent advancement in the field but to better understand them by referring to various illustrations figures and informative tables The contents cover an overview of colonic diseases the cellular and molecular mechanisms involved current and traditional therapeutic approaches biomaterials oral drug delivery methods targeted drug delivery nutraceuticals and herbal medicine approaches prebiotics probiotics and symbiotics nanomedicine approaches and the current status of clinical trials in the area Advanced Drug Delivery Systems for Colonic Disorders is the perfect resources for researchers in pharma biomaterials and nutrition to familiarize themselves with new and upcoming therapeutic methods Research physicians in GI can also benefit from reading this book for its clinical applications Covers recent perspectives and challenges towards the treatment of colonic disorders Provides insights into how advanced drug delivery systems can be effectively used for the management of various types of colonic disorders Discusses drug delivery strategies to manage inflammatory bowel disease chronic inflammation in the digestive tract ulcerative colitis inflammation and ulcers in colon Crohn s disease Colonic polyps Shigellosis Colon Bleeding or Hemorrhage Diverticulosis and colon cancer

Biomedical Aspects of Drug Targeting Vladimir R. Muzykantov,Vladimir P. Torchilin,2013-03-09 Drugs usually have no natural affinity for the cells tissues and organs where therapeutic effects are needed which frequently results in low efficiency and unwanted side effects This concern is even more profound when using highly potent and cytotoxic anticancer drugs or specific agents such as enzymes and genetic materials since their effective and safe action requires precise cellular or even sub cellular addressing in the target organ To meet safety efficiency and specificity requirements drugs somehow must be targeted to the sites of their expected therapeutic action The idea of the magic bullet or drug targeting proposed by Erlich a century ago generates great

and continuously growing interest in biomedical industrial and financial circles This book is focused on the strategies designed to target therapeutic or diagnostic agents to the disease sites In an attempt to include in this volume the set of chapters reflecting both traditional and emerging areas of drug targeting we have contacted many leading scientists in the field asking for their contributions Their responses were most favorable and encouraging As a result we have succeeded in assembling a series of outstanding contributions reflecting practically all the key areas of drug targeting The final structure of this book is as follows

Fundamentals and Applications of Controlled Release Drug Delivery Juergen

Siepmann, Ronald A. Siegel, Michael J. Rathbone, 2011-12-14 Pitched at a level comprehensible to those new to the field this authoritative text covers the scientific and technological fundamentals of drug delivery as well as clinical applications and the developmental potential in controlled release drug delivery

Introduction to Novel Drug Delivery System(NDDS) Dr.

M. Yasmin Begum, Dr. Ali Alamri, 2024-12-02 Introduction to Novel Drug Delivery System NDDS serves as a comprehensive guide to understanding the latest advances in the field of drug delivery The book is carefully structured to provide an in depth exploration of traditional and novel drug delivery technologies reflecting on their historical evolution fundamental concepts and cutting edge innovations The opening chapters lay the foundation by discussing the essential principles and evolution of drug delivery systems highlighting the transition from traditional methods to modern technologies The book delves deep into the limitations of traditional systems and introduces novel drug delivery methods emphasizing their advantages and transformative potential in improving therapeutic outcomes Significant attention is given to the role of nanotechnology in drug delivery Readers are guided through the basics of nanotechnology various nanoparticle based delivery systems and specific types of nanocarriers such as liposomes and nanoshears The text addresses the applications and challenges associated with nanomedicine providing a clear understanding of its impact on drug delivery Subsequent chapters explore controlled and sustained release systems providing insights into their principles types and clinical applications The book also covers targeted drug delivery discussing various strategies and current research trends such as ligand based and receptor mediated targeting In addition to conventional and advanced delivery systems the text examines non conventional routes biodegradable and biocompatible systems and recent technological advancements The final chapters address clinical and regulatory aspects outlining processes for clinical trials regulatory approval and quality control Concluding with a visionary outlook the book discusses emerging trends including personalized medicine and the integration of AI in drug delivery offering a glimpse into the future of this dynamic field

Brain Drug Targeting William M.

Pardridge, 2001-05-31 The thesis of this innovative and challenging book first published in 2001 is that brain drug development has been restricted by the failure of adequate brain drug targeting and that this is an increasingly urgent problem as developments in genomics lead to new generations of therapeutic macromolecules The author a world leader in the study of the blood brain barrier and its clinical implications reviews the field of neurotherapeutics from the point of view

of drug targeting He surveys the scientific and clinical basis of drug delivery across biological membranes including topics such as genetically engineered trojan horses for drug targeting antisense neurotherapeutics and gene therapy of brain disorders At a time when there are few significant new drug treatments in prospect for common neurological diseases this authoritative review will encourage a wide range of clinicians and neuroscientists to reexamine the development and use of drugs in treating disorders of the central nervous system

Frontiers in Anti-Cancer Drug Discovery Atta-ur-Rahman,M. Iqbal Choudhary,2013-11-29 Frontiers in Anti Cancer Drug Discovery is an Ebook series devoted to publishing the latest and the most important advances in Anti Cancer drug design and discovery Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry in silico drug design combinatorial chemistry high throughput screening drug targets recent important patents and structure activity relationships The Ebook series should prove to be of interest to all pharmaceutical scientists involved in research in Anti Cancer drug design and discovery Each volume is devoted to the major advances in Anti Cancer drug design and discovery The Ebook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field

Peptides in Nanotechnology Laksiri Weerasinghe,Saranya Selvaraj,2025-04-28 Among the various nanomaterials peptides have emerged as a promising tool due to their unique properties such as high specificity biocompatibility and low toxicity This book provides a comprehensive overview of the field of peptide based nanomaterials from their synthesis to their applications It covers the latest advancements in peptide nanotechnology and provides detailed insights into various aspects of peptide based nanomaterials including their properties synthesis characterization and potential applications in various biomedical fields Features Provides up to date detailed descriptions of various peptide based nanostructures and their formation Covers a wide range of topics related to peptides in nanotechnology including their synthesis and characterization Includes the latest research and developments in the field of peptides in nanotechnology Contains recent applications in drug delivery tissue engineering imaging and diagnostics and targeted cancer therapy Reviews peptide nanoparticle conjugates PNCs This book is aimed at graduate students and researchers in peptide synthesis biomedical engineering and drug development and delivery

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

Stimuli-Responsive Nanocarriers for Targeted Drug Delivery Muhammad Raza Shah, Tooba Jabri, Maria Khalid, 2024-09-30 Stimuli Responsive Nanocarriers for Targeted Drug Delivery presents a comprehensive overview of the most significant physical and chemical stimuli responsive drug delivery systems This book reviews targeted and controlled drug delivery systems and how nanocarriers can be used to improve the pharmacokinetics of drugs in biological systems such as increasing utilization rate and reducing toxicity and side effects After a key introduction to the topic a range of nanocarrier types is assessed before exploring the clinical translation challenges and considerations involved This book is a useful resource for researchers and postgraduate students in the fields of materials science nanotechnology pharmaceutical science and medicinal chemistry Offers an in depth look at the basic and fundamental aspects of stimuli responsive materials mechanisms structure synthesis and properties Provides information about well defined categorization for stimuli responsive drug delivery system based on different triggering mechanisms to its reader Reviews basic concepts and the latest research involving advances in stimuli responsive drug delivery systems in controlled release drugs Discusses novel approaches and challenges for scaling up and commercialization of stimuli responsive polymers

Targeted Nanomedicine for Breast Cancer Therapy Shivani Rai Paliwal, Rishi Paliwal, 2022-08-06 Targeted Nanomedicine for Breast Cancer Therapy provides a compilation of treatment approaches for breast cancer including conventional receptor targeting methods and novel strategies like stimuli responsive methods and tumor micro environment responsive strategies This book compiles the most important information on the state of the art therapeutics including breast cancer biomarkers and design principles of bio responsive nanosystems Presented in two parts sections cover basic and receptor mediated targeting approaches and examine tumor microenvironment mediated approaches This is a useful book for pharmaceutical scientists and basic and clinical scientists working in the research area of breast cancer and drug discovery both from academics and industry Worldwide breast cancer is the most common cancer in women however breast cancer therapy is always challenging This book aims to help researchers remain updated on the most targeted nanomedicine research available Highlights promising breast cancer targets to help design nanomedicines and stimuli triggered methods for cancer imaging and treatments Provides in depth exploration of targeted breast cancer therapy along with highlights to quickly understand the most important points Explores cutting edge research in the area of targeted nanomedicine and drug delivery including nanotheranostics for breast cancer therapy

Next-Generation Drug Delivery Systems Abhishek Pathak, Satya Pal Singh, 2025-05-12 This book provides a detailed yet accessible guide to emerging trends in drug delivery systems Topics

encompass a wide range of delivery mechanisms including nanotechnology based carriers controlled release formulations targeted delivery systems and biologics with a focus on their role in improving therapeutic outcomes Emphasis has also been placed on regulatory challenges translational research and the integration of artificial intelligence in designing advanced drug delivery systems Written for the Methods in Pharmacology and Toxicology series chapters include the kind of specificity and expert implementation advice to ensure success in the lab Comprehensive and practical Next Generation Drug Delivery Systems serves as an ideal guide to how innovative drug delivery approaches can address critical challenges such as enhancing bioavailability reducing side effects and achieving precise drug targeting

Ways to improve tumor uptake and penetration of drugs into solid tumors Fabrizio Marcucci, Angelo Corti, Ronald Berenson, 2014-12-05 The main scope of this topic is to give an update on pharmacologic and non pharmacologic approaches to enhance uptake and penetration of cancer drugs into tumors Inadequate accumulation of drugs in tumors has emerged over the last decade as one of the main problems underlying therapeutic failure and drug resistance in the treatment of cancer Insufficient drug uptake and penetration is causally related to the abnormal tumor architecture Thus poor vascularization increased resistance to blood flow and impaired blood supply represent a first obstacle to the delivery of antitumor drugs to tumor tissue Decreased or even inverted transvascular pressure gradients compromise convective delivery of drugs Eventually an abnormal extracellular matrix offers increased frictional resistance to tumor drug penetration Abnormal tumor architecture also changes the biology of tumor cells which contributes to drug resistance through several different mechanisms The variability in vessel location and structure can make many areas of the tumor hypoxic which causes the tumor cells to become quiescent and thereby resistant to many antitumor drugs In addition the abnormally long distance of part of the tumor cell population from blood vessels provides a challenge to delivering cancer drugs to these cells We have recently proposed additional mechanisms of tumor drug resistance which are also related to abnormal tumor architecture First increased interstitial fluid pressure can by itself induce drug resistance through the induction of resistance promoting paracrine factors Second the interaction of drug molecules with vessel proximal tumor cell layers may also induce the release of these factors which can spread throughout the cancer and induce drug resistance in tumor cells distant from blood vessels As can be seen abnormal tumor architecture inadequate drug accumulation and tumor drug resistance are tightly linked phenomena suggesting the need to normalize the tumor architecture including blood vessels and or increase the accumulation of cancer drugs in tumors in order to increase therapeutic effects Indeed several classes of drugs that we refer to as promoter drugs have been described that promote tumor uptake and penetration of antitumor drugs including those that are vasoactive modify the barrier function of tumor vessels debulk tumor cells and overcome intercellular and stromal barriers In addition also non pharmacologic approaches have been described that enhance tumor accumulation of effector drugs e g convection enhanced delivery hyperthermia etc Some drugs that have already received regulatory approval e g the anti VEGF antibody

bevacizumab exert antitumor effects at least in part through normalization of the tumor vasculature and enhancement of the accumulation of effector drugs Other drugs acting through different mechanisms of action are now in clinical development e g NGR TNF in phase II III studies and others are about to enter clinical investigation e g JO 1

Targeted Drug

Strategies for Cancer and Inflammation Ann L. Jackman, Christopher P. Leamon, 2011-05-05 Folate pathways are essential in metabolism and macromolecule synthesis Antifolate drugs that are largely transported via a high capacity folate transporter i e the reduced folate carrier and inhibit folate dependent enzymes include the dihydrofolate reductase inhibitor methotrexate and the thymidylate synthase inhibitors raltitrexed and pemetrexed Major advances in folate research made within the last decade include i the approval of pemetrexed for the treatment of lung cancer and mesothelioma and ii the demonstration that cell membrane anchored folate receptors FR are exploitable for cancer and inflammatory disease management FRs are not widely distributed in normal tissues except on some luminal surfaces however they are accessible to systemically administered agents when expressed on many cancers as well as on activated macrophages involved in various inflammatory diseases High affinity folate radioisotope conjugates have been developed for imaging pathogenic FR positive diseases including cancer Since the FR transports folates via a low capacity but high affinity endocytic pathway a variety of FR targeted antifolate drugs and folate conjugates bearing a wide range of payloads including cytotoxic drugs are currently being developed which exploit this property The FR is also being utilized in immunotherapy approaches for the treatment of overexpressing cancers

Microspheres and Regional Cancer Therapy Neville Willmott, John M. Daly, 2020-10-28 *Microspheres and Regional Cancer Therapy* takes an interdisciplinary approach to the subject of microspheres and regional cancer therapy It synthesizes laboratory and clinical data to demonstrate the utility of microsphere based strategies in the treatment of localized solid tumors particularly in the liver not amenable to surgery and as a component of strategies for treatment of disseminated disease Using the same techniques that show the deficiencies of delivery strategies involving antibodies liposomes and synthetic polymers clear evidence is presented describing how microspheres of appropriate size can be localized in solid tumor deposits in the liver with little exposure to other organs To exploit this phenomenon the extent and nature of the incorporation of active agents within microspheres is discussed in relation to release pharmacokinetics and tumor response achieved by intensification of therapy in the manner described This book will benefit laboratory based scientists and clinicians in pharmaceuticals pharmacology physiology surgical oncology and nuclear medicine In addition cancer clinicians interested in the value of regional therapy will be able to evaluate the underlying theory and learn the necessary methodology

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