

Advances in Delivery Science and Technology

Jeremy C. Wright
Diane J. Burgess *Editors*

Long Acting Injections and Implants



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Long Acting Injections and Implants Jeremy C. Wright, Diane J. Burgess, 2011-12-14 This book surveys the field of long acting injections and implants which improve therapy enhance patient compliance and enhance dosing convenience Topics include the historical development of drugs and diseases and clinical applications for long acting injections and implants

Long Acting Injections and Implants Jeremy C. Wright, Diane J. Burgess, 2012-01-29 Long acting injections and implants improve therapy enhance patient compliance improve dosing convenience and are the most appropriate formulation choice for drugs that undergo extensive first pass metabolism or that exhibit poor oral bioavailability An intriguing variety of technologies have been developed to provide long acting injections and implants Many considerations need to go into the design of these systems in order to translate a concept from the lab bench to actual therapy for a patient This book surveys and summarizes the field Topics covered in Long Acting Injections and Implants include the historical development of the field drugs diseases and clinical applications for long acting injections and implants anatomy and physiology for these systems specific injectable technologies including lipophilic solutions aqueous suspensions microspheres liposomes in situ forming depots and self assembling lipid formulations specific implantable technologies including osmotic implants drug eluting stents and microfabricated systems peptide protein and vaccine delivery sterilization drug release testing and regulatory aspects of long acting injections and implants This volume provides essential information for experienced development professionals but was also written to be useful for scientists just beginning work in the field and for others who need an understanding of long acting injections and implants This book will also be ideal as a graduate textbook

Biodegradable Long Acting Injectables and Implants Farshad Ramazani, 2025-03-29 Long acting injectables and implants LAI are known to improve patient adherence and treatment outcomes They reduce costs for the healthcare system and ensure sustainable sales for pharmaceutical companies LAI are usually administered intramuscularly IM or subcutaneously SC In this way the drug is released from its depot in a controlled manner over a longer period of time e g a few days to a year There is a trend toward increasing interest in the development of long acting drugs for local administration versus systemic administration of depot products i e IM or SC injection This is leading to finding new ways of administration of the depot formulation intra ocular intra articular peritendon etc Therefore it is expected that more drugs based on LAI formulations will enter the clinical phase in the future Due to many benefits in adherence efficacy and safety of the treatment up until now around 50 brand name medicines using different biodegradable long acting technology have received FDA approval Manufacturing of LAI involves many steps with their unique challenges which is why pharmaceutical companies consider them to be complex formulations to develop Most of the published papers and books in this field are written by scientists who never worked in industry and whose knowledge on the topic is limited to small scale formulation screening Therefore this book aims to address the challenges of the development of biodegradable LAI from an industrial

perspective SPEC - Long-Acting Drug Delivery Systems: Pharmaceutical, Clinical, and Regulatory Aspects, 12-Month Access, eBook Eneko Larrañeta,Thakur Raghu Raj Singh,Ryan F. Donnelly,2022-11-04 SPEC Long Acting Drug Delivery Systems Pharmaceutical Clinical and Regulatory Aspects 12 Month Access eBook *Drug Delivery* Anya Hillery,2016-09-15 This book provides a comprehensive introduction to advanced drug delivery and targeting covering their principles current applications and potential future developments This edition has been updated to reflect significant trends and cutting edge advances that have occurred since the first edition was published All the original chapters have been retained but the material therein has been updated Eight new chapters have been added that deal with entirely new technologies and approaches Features Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting Presents an in depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation Describes the most recent emerging and innovative technologies of drug delivery Provides real life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems crucial considerations in order to achieve licensing approval for these new technologies **Handbook of Bioplastics and Biocomposites Engineering Applications** Inamuddin,Tariq Altalhi,2022-12-28 Handbook of Bioplastics and Biocomposites Engineering Applications The 2nd edition of this successful Handbook explores the extensive and growing applications made with bioplastics and biocomposites for the packaging automotive biomedical and construction industries Bioplastics are materials that are being researched as a possible replacement for petroleum based traditional plastics to make them more environmentally friendly They are made from renewable resources and may be naturally recycled through biological processes conserving natural resources and reducing CO2 emissions The 30 chapters in the Handbook of Bioplastics and Biocomposites Engineering Applications discuss a wide range of technologies and classifications concerned with bioplastics and biocomposites with their applications in various paradigms including the engineering segment Chapters cover the biobased materials recycling of bioplastics biocomposites modeling various biomedical and engineering based applications including optical devices smart materials cosmetics drug delivery clinical electrochemical industrial flame retardant sports packaging disposables and biomass The different approaches to sustainability are also treated Audience The Handbook will be of central interest to engineers scientists and researchers who are working in the fields of bioplastics biocomposites biomaterials for biomedical engineering biochemistry and materials science The book will also be of great importance to engineers in many industries including automotive biomedical construction and food packaging Chitosan in Drug Delivery Md Saquib Hasnain,Sarwar Beg,Amit Kumar Nayak,2021-10-26 Chitosan in Drug Delivery provides thorough insights into chitosan chemistry collection chemical modifications characterization and applications in the pharmaceutical industry and healthcare fields The book

explores molecular weight degree of deacetylation and molecular geometry emphasizing recent advances in the field as written by academic industry and regulatory scientists It will be a useful resource for pharmaceutical scientists including industrial pharmacists analytical scientists postgraduate students health care professionals and regulatory scientists actively involved in pharmaceutical product and process development in natural polymers containing drug delivery Provides methodologies for the design development and selection of chitosan in drug delivery for particular therapeutic applications Includes illustrations demonstrating the mechanism of biological interaction of chitosan Discusses the regulatory aspects and demonstrates the clinical efficacy of chitosan **Neuroimmune Pharmacology and Therapeutics** Howard E.

Gendelman,Tsuneya Ikezu,2024-12-26 Bridging neuroscience immunology and pharmacology and bringing together the foremost authorities Neuroimmune Pharmacology and Therapeutics 3rd edition is an invaluable reference and textbook The text discusses the immunology of the nervous system New chapters are offered on innate humoral and cellular immune responses innate and adaptive immunity The additions join each component of the immune response in descriptions for how each affects nervous system function in both health and disease Next discussions of neuropharmacology now include both drug development and delivery into brain subregions to optimize clinical responses This edition features greatly expanded coverage of therapeutics The new extensions have blossomed into focused therapies engaging the immune system directly deploying it for drug delivery attracting the newly evolving field of genetics vaccinations and bioengineering ultimately leading to improved therapeutic disease outcomes All of the revisions in this edition are designed to bring an early trainee together with a skilled clinical and translational scientist to discuss the state of the art in each part of the emerging field of immunity as it affects the nervous system during steady state and disease and how it can be harnessed for therapeutics and clinical benefit *Fundamentals of Pharmaceutical Nanoscience* Ijeoma F. Uchegbu,Andreas G. Schätzlein,Aikaterini

Lalatsa,Dolores Remedios Serrano Lopez,2024-11-09 Nanoscience or the science of the very small offers the pharmaceutical scientist a wealth of opportunities By fabricating at the nanoscale it is possible to exert unprecedented control on drug activity This textbook will showcase a variety of nanosystems working from their design and construction to their application in the field of drug delivery The book is intended for graduate students in drug delivery physical and polymer chemistry and applied pharmaceutical sciences courses that involve fundamental nanoscience The purpose of the text is to present physicochemical and biomedical properties of synthetic polymers with an emphasis on their application in polymer therapeutics i e pharmaceutical nanosystems drug delivery and biological performance There are two main objectives of this text The first is to provide advanced graduate students with knowledge of the principles of nanosystems and polymer science including synthesis structure and characterization of solution and solid state properties The second is to describe the fundamentals of therapeutic applications of polymers in drug delivery targeting response modifiers as well as regulatory issues The courses often listed as Advanced Drug Delivery and Applied Pharmaceutics Polymer Therapeutics or

Nanomedicine are designed as an overview of the field specifically for graduate students in the Department of Pharmaceutical Sciences Graduate Programs However the course content may also be of interest for graduate students in related biomedical research programs These courses generally include a discussion of the major principles of polymer science and fundamental concepts of application of polymers as modern therapeutics All courses are moving away from the above mentioned course names and going by pharmaceutical nanoscience or nanosystems This area of research and technology development has attracted tremendous attention during the last twodecades and it is expected that it will continue to grow in importance However the area is just emerging and courses are limited but they are offered

Principles of Tissue Engineering Robert Lanza,Robert Langer,Joseph P. Vacanti,Anthony Atala,2020-03-26 Now in its fifth edition Principles of Tissue Engineering has been the definite resource in the field of tissue engineering for more than a decade The fifth edition provides an update on this rapidly progressing field combining the prerequisites for a general understanding of tissue growth and development the tools and theoretical information needed to design tissues and organs as well as a presentation by the world s experts of what is currently known about each specific organ system As in previous editions this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering including biology chemistry material science and engineering among others while also emphasizing those research areas that are likely to be of clinical value in the future This edition includes greatly expanded focus on stem cells including induced pluripotent stem iPS cells stem cell niches and blood components from stem cells This research has already produced applications in disease modeling toxicity testing drug development and clinical therapies This up to date coverage of stem cell biology and the application of tissue engineering techniques for food production is complemented by a series of new and updated chapters on recent clinical experience in applying tissue engineering as well as a new section on the emerging technologies in the field Organized into twenty three parts covering the basics of tissue growth and development approaches to tissue and organ design and a summary of current knowledge by organ system Introduces a new section and chapters on emerging technologies in the field Full color presentation throughout *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 **Innovative delivery systems for**

paediatric medicines Jenny Walsh (Pharmacist),Martina Penazzato,Cherise Scott,Carmen Perez Casas,2021-11-10 Provided in this landscape analysis is an overview of new and emerging dosage forms and formulation technologies that may be beneficial if applied for use in paediatric patients It covers various routes of administration including oral rectal parenteral transdermal and others There is also attention given to long acting formulations that hold clear promise for use in children Emphasis is placed upon those dosage forms and technologies which could be suitable for use for children in LMICs There are key considerations when analysing potential application of these technologies to existing and emerging therapeutic needs for children Some technologies are ready and available to use in an intervention today while others will require further investigations As a result strategic interventions and investments in this area can be classified by opportunities in the short term and in the long term There are near term opportunities for the development of age appropriate solid oral dosage forms including dispersible tablet formulations and oro dispersible tablets Also suppositories and long acting depot injectables offer potential alternatives and are gaining interest Well established technologies for controlling and delaying release and for enhancing the bioavailability of poorly soluble drugs are all considered to provide near term opportunities On the longer term further evaluation of the safety and acceptability of some of the dosage forms and technologies in paediatric patients are required as well as the feasibility for cost effective commercialisation i e oro dispersible and buccal films long acting implants and needle free injections

Implantable Technologies Ved Srivastava,2021-10-20 Implantable technologies allow for a sustained control over the release of pharmaceuticals into the bloodstream thereby achieving a controlled concentration with the potential to minimise side effects while increasing patient compliance Significant progress has been made in various alternative implantable delivery technologies notably in intraocular and subcutaneous devices Despite success in research and clinical studies long term clinical efficacy may be more limited and different aspects related to drug development and commercialization using these technologies are not well understood or practiced in the commercial setting This book provides a comprehensive and cohesive picture of the latest in the field while also outlining the opportunities and challenges in implantable technology

Implantable Technologies Peptides and Biologic Drug Development is an ideal reference for any postgraduate or researcher interested in utilising implantable technologies and novel routes of drug administration The book will also be of interest to those involved in formulation and clinical application for a wide array of disease areas in addition to more established paradigms such as diabetes and pain management

Contraception: Your Questions Answered6 John Guillebaud,Anne MacGregor,2012-10-12 Includes information about contraception methods effectiveness mechanisms side effects and complications

Contraception: Your Questions Answered E-Book John Guillebaud,Anne MacGregor,2017-06-16 From reviews of the previous edition Provides a wealth of information graphically illustrates the need for practitioners to be thoroughly knowledgeable Toni Belfield Director of Information Family Planning Association The world's population is increasing dramatically At levels over 7 billion rising annually by over 83 million with births outstripping deaths by a factor of

c 2 4 the toll this imbalance takes on the environment developing economies and resources healthcare education rates of poverty and the lives of women in the poorer parts of the world is increasingly unsustainable Even in the developed world there is still an unacceptably high rate of unplanned pregnancies demonstrating that appropriate education at both local and global levels about the full range of available contraception is essential Using a highly accessible question and answer format John Guillebaud and Anne MacGregor seek to ensure everything needed for good family planning practice is here in this book Now in its seventh edition and online via ExpertConsult Contraception Your Questions Answered remains the market leading one stop resource for family planning professionals worldwide Question and answer format Important information boxes Unwanted side effects boxes Frequent patient questions at the end of relevant chapters Management advice Follow up advice This seventh edition has been completely revised and updated incorporating relevant WHO and national guidance documents therefore imparting best evidence based practice for all methods Combined oral contraceptives COCs Based on the long established evidence that 7 days of routinely not taking pills in each cycle is too long for maintained ovarian suppression and this necessarily leads to too little margin for errors in pill taking the authors recommend that providers switch to a new norm for all users of either Tricycling the 84 4 regimen or totally continuous use 365 365 OR for women who remain keen to see monthly pill bleeds which are completely unnecessary for health one of the regimens 24 4 or 21 4 that shorten the contraception non taking time to 4 days New methods and their importance or otherwise Intrauterine system Jaydess Subcutaneous self injectable alternative to Depo Provera Sayana Press 24 4 combined hormonal contraceptives Zoely Eloine Diaphragm Caya Updates Quick starting and bridging the Proving not Pregnant Protocol Emergency contraception EC how advice differs for ulipristal acetate EC Drug metabolism implications with norethisterone and interactions eg affecting lamotrigine Intermittent quizzes for CPD portfolio purposes Now on ExpertConsult

Clinical Pharmacology in Athletic Training Michelle Cleary, Thomas E. Abdenour, Tom Abdenour, Michael Pavlovich, Mike Pavlovich, 2021-10-22 This book provides comprehensive foundational knowledge of pharmacology It guides athletic trainers through the management administration legal issues and pharmacology of drugs used in sports medicine *Atlas of Contraception* Pramilla Senanayake, Malcolm Potts, 2008-04-14 This revised and updated Atlas provides a comprehensive guide to modern contraceptive practice The book is heavily illustrated with color photographs and line drawings that guide the reader through the various options available and provide a valuable educational resource The supporting text offers a concise description of family planning in today Fundamentals of HIV Medicine 2023 ,2023 Featuring overlapping recommendations for HIV and COVID 19 Fundamentals of HIV Medicine 2023 is the AAHIVM s end to end clinical resource for the treatment of individuals with HIV AIDS now updated to include injectable antiretroviral treatment and long term viral remission **Haschek and Rousseaux's Handbook of Toxicologic Pathology, Volume 4: Toxicologic Pathology of Organ Systems** Wanda M. Haschek, Colin G. Rousseaux, Matthew A. Wallig, Brad Bolon, 2024-03-05 Haschek and Rousseaux s Handbook of Toxicologic

Pathology Volume Four Toxicologic Pathology of Organ Systems is a key reference on the integration of structure and functional changes in tissues associated with the response to pharmaceuticals chemicals and biologics Organ systems covered include cardiac vascular and skeletal muscle systems and the endocrine respiratory reproductive digestive and nervous systems Completely revised with a new olfactory chapter this new release is an essential part of the most authoritative reference on toxicologic pathology for pathologists toxicologists research scientists and regulators studying and making decisions on drugs biologics medical devices and other chemicals including agrochemicals and environmental contaminants Presents updated chapters on systems toxicologic pathology including new chapter on olfactory Offers high quality and trusted content in a multi contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions to highlight difficult concepts with clear illustrations

Transdermal Applications of Minimally Invasive Drug Delivery Systems Malakapogu Ravindra Babu, Monica Gulati, Vandana B. Patravale, Hélder Santos, Kamal Dua, Sachin Kumar Singh, 2025-06-19 This book presents the scientific as well as industrial perspectives challenges and advances in minimally invasive drug delivery systems for topical applications It also covers the regulatory requirements and specifically discusses all the intellectual property rights filed and granted throughout the globe for minimally invasive systems This book presents detailed analyses of various minimally invasive drug delivery methods as well as the recent advances in devices such as microneedles iontophoretic devices probes etc This book will be of keen interest to a wide range of audiences including clinical researchers working in the field of drug delivery and disease diagnosis as well as undergraduate and postgraduate students from various disciplines such as pharmacy pharmacology pharmaceuticals biotechnology and health sciences

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