Advances in Delivery Science and Technology

Jeremy C. Wright Diane J. Burgess *Editors* 

# Long Acting Injections and Implants





# **Long Acting Injections And Implants Advances In Delivery Science And Technology**

D. Prasanna Balaji, Pinar Dinç Kalayci, Seshadri S. Ramkumar

# Long Acting Injections And Implants Advances In Delivery Science And Technology:

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

Pharmaceutical Sciences: Breakthroughs in Research and Practice Management Association, Information Resources, 2016-12-28 The delivery of optimal pharmaceutical services to patients is a pivotal concern in the healthcare field By examining current trends and techniques in the industry processes can be maintained and improved Pharmaceutical Sciences Breakthroughs in Research and Practice provides comprehensive coverage of the latest innovations and advancements for pharmaceutical applications Focusing on emerging drug development techniques and drug delivery for improved health outcomes this book is ideally designed for medical professionals pharmacists researchers academics and upper level students within the growing pharmaceutical industry Long Acting Animal Health Drug Products Michael J. Rathbone, Arlene McDowell, 2012-10-11 Long acting veterinary formulations play a significant role in animal health production and reproduction within the animal health industry Such technologies offer beneficial advantages to the veterinarian farmer and pet owner These advantages have resulted in them growing in popularity in recent years The pharmaceutical scientist is faced with many challenges when innovating new products in this demanding field of controlled release This book provides the reader with a comprehensive guide on the theories applications and challenges associated with the design and development of long acting veterinary formulations The authoritative chapters of the book are written by

some of the leading experts in the field The book covers a wide scope of areas including the market influences preformulation biopharmaceutics in vitro drug release testing and specification setting to name but a few It also provides a detailed overview of the major technological advances made in this area As a result this book covers everything a formulation scientist in industry or academia or a student needs to know about this unique drug delivery field to advance health production and reproduction treatment options and benefits for animals worldwide Analytical Tools and Industrial Applications for Chemical Processes and Polymeric Materials Slavcho Kirillov Rakovsky, Ryszard Kozlowski, Nekane Guarrotxena, 2013-12-12 In a unified treatment for the broad subject of materials this book presents some fascinating phenomena associated with the remarkable performance of polymers and chemical materials It provides a comprehensive description of the applications and tools for chemical polymeric materials It also includes the background information Downstream Processing in Biotechnology Venko N. Beschkov, Dragomir Yankov, 2021-06-21 The current book gives an excellent insight into downstream processing technology and explains how to establish a successful strategy for an efficient recovery isolation and purification of biosynthetic products In addition to the overview of purification steps and unit operations the authors provide practical information on capital and operating costs related to downstream Immunopathology in Toxicology and Drug Development George A. Parker, 2017-03-27 This book processing provides a fundamental understanding of immunopathology and immunopathologic processes with particular attention to nonclinical toxicology studies Chapters provide organ system based summaries of spontaneous pathology and common responses to xenobiotics A companion volume Immunopathology in Toxicology and Drug Development Volume 1 Immunobiology Investigative Techniques and Special Studies offers an overview of general immunobiology cells of the immune system signaling and effector molecules and immunopathology assays These informative and strategic books were created in response to the large segment of drug development that focuses on chronic diseases many of which involve alterations to the immune system Therapies that target these diseases commonly involve some form of immunomodulation As a result the two volumes of Immunopathology in Toxicology and Drug Development are critical texts for individuals involved in diverse aspects of drug development Readers will acquire a thorough understanding of immunopathology for detection and accurate interpretation of pathologic effects of xenobiotics on the immune system **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 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 pri tendon 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 Pharmaceutics for the Pharmacy Students Indiran Pather, Chandra Kolli, 2024-05-31 An innovative new text for the pharmacy student that shows the relevance of pharmaceutics to clinical practice Written for pharmacy students who want to gain a better understanding of pharmaceutics this full color resource shows the relevance of pharmaceutics to clinical practice The text provides students with an understanding of industrial pharmacy practices which will assist them in correlating dosage form considerations with specific patient situations in real world practice While written on a level suitable for those with a pharmacy background the book distinguishes itself from the competition by its more explanatory conversational tone Outstanding pedagogy includes chapter summaries line drawings self test questions key concepts and active learning exercises Case studies and what if scenarios prepare students for real world practice Rich full color presentation Immunopotentiators in Modern Vaccines Virgil Schijns, Derek O'Hagan, 2016-11-02

Immunopotentiators in Modern Vaccines Second Edition provides in depth insights and overviews of the most successful adjuvants those that have been included in licensed products also covering the most promising technologies that have emerged in recent years In contrast to existing books on the subject the chapters here provide summaries of key data on the mechanisms of action of the individual vaccine adjuvants In addition the book covers key aspects of how the technologies might be further developed and what might be their limitations while also giving an overview of what made the most advanced adjuvant technologies successful Provides contributions from leading international authorities in the field Features immunopotentiators classified by function with well illustrated informative figures presenting the interaction between the immunopotentiators and the host immune system Lists advantages and potential hurdles for achieving a practical application for each specific immunopotentiator Offers US FDA perspectives which highlight how future adjuvants will be approved for new generation vaccines Advances in Sports Science and Technology D. Prasanna Balaji, Pinar Dinc Kalayci, Seshadri S. Ramkumar, 2025-05-20 It focused on the strategies challenges and choices in the renaissance of modern sports It brought together scientists sports persons decision makers and executives from across the globe to share research approaches methods and results It analyzed ways for implementing adaptable and observable improvement which have direct impact on <u>Drug Delivery</u> Anya Hillery, 2016-09-15 This book provides a comprehensive introduction to advanced drug sports 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

**Demographic and Programmatic Consequences of Contraceptive Innovations** Sheldon J. Segal, Amy O. Tsui, Susan M. Rogers, 2012-12-06 This volume contains papers presented at the Conference on the Demographic and Programmatic Consequences of Contraceptive In novations which was sponsored by the Committee on Population and held at the National Academy of Sciences October 6 7 1988 The papers consider how new contraceptive methods currently being developed and changes in the use of already available contraceptives could affect contraceptive practice levels and patterns of abortion use and the health of women In addition several of the papers re view the probable consequences of introducing new technology

into family planning programs in developing countries The Committee on Population sponsored this conference in order to stimulate think ing and to provide a forum for scientists family planning program managers and donor agency personnel to exchange information and ideas about these important issues The committee is publishing these papers to expand the discussion of consequences of contracep tive innovations and to give scientists policy makers and members of the public who could not attend the conference an opportunity to learn about new developments in fertility control and their likely consequences for individuals and the societies in which they live NEED FOR NEW METHODS While a strong case can be made that the pill and the intrauterine device IUD have contributed to declines in the level of unintended pregnancies around the world it is also clear that for many couples existing methods present problems \*\*Drug Delivery Systems\*\* Kewal K. Jain,2008-03-07 In this concise and systematic book a team of experts select the most important cutting edge technologies used in drug delivery systems They take into account significant drugs new technologies such as nanoparticles and therapeutic applications The chapters present step by step laboratory protocols following the highly successful Methods in Molecular BiologyTM series format offering readily reproducible results vital for pharmaceutical physicians and scientists

3D Printing of Pharmaceutical and Drug Delivery Devices Dimitrios A. Lamprou, Dennis Douroumis, Sheng Qi, 2024-05-15 Discover the latest fast developing technology to help move towards more cost effective small batch decentralized manufacturing of personalized systems 3D printing has revolutionized manufacturing Its precision and flexibility have enabled the large scale production of materials and devices too complex for conventional industrial manufacturing This has been particularly revolutionary in the field of pharmaceutical production where 3D printing is being integrated into the manufacture of both drugs and drug delivery devices It has never been more important for industry professionals to understand this form of production 3D Printing of Pharmaceuticals and Drug Delivery Devices Progress from Bench to Bedside offers a comprehensive overview of 3D printing technology and its pharmaceutical applications It introduces readers to a world in which bespoke drug delivery systems developed for specific users or conditions is rapidly becoming a reality Its detailed coverage of strategies and industrial processes incorporates the latest research and real world experience of production 3D Printing of Pharmaceuticals and Drug Delivery Devices Progress from Bench to Bedside readers will also find A multi disciplinary authorial team of industry leaders Discussion of common technical and regulatory barriers and their possible solutions Far ranging discussion of pharmaceutical applications across all sectors 3D Printing of Pharmaceuticals and Drug Delivery Devices Progress from Bench to Bedside is essential reading for pharmaceutical industry professionals and researchers looking to occupy the leading edge Anticipating and Assessing Health Care Technology, Volume 2 ,2012-12-06 As noted in the Foreword this report is the second of several volumes resulting from this study of future health care technology The purpose of the study as formulated by the STG was to analyze future health care technology Part of the task was to develop an early warning system for health care technology. The primary goal of the project was to develop a list

or description of a number of possible and probable future health care technologies as well as information on their importance Within the limits of time and money this has been done This report is the description of anticipated future health care technologies. However given the vast number of possible future health care technologies complete information on the importance of each area could not be developed in any depth for all technology Therefore four specific technologies were chosen and were prospectively assessed These future technologies were examined in more depth looking particularly at their future health and policy implications Subsequently the project was extended to September 1987 and two additional technologies are being assessed **Just Like a Woman** Dianne Hales, 2000-06-06 In recent years researchers in many scientific fields have actively focused on what being female really means Their startling conclusion Almost every assumption made about women physical medical historical psychological turns out to be untested unproven or untrue Stereotypes about women are as old as time and as current as still too prevalent beliefs based on male models Acclaimed health writer Dianne Hales brings together the cutting edge research in anthropology physiology psychology neuroscience endocrinology and medicine in a book that reveals the complex interconnections between all aspects of a woman's life from infancy to old age Gender science is now clearly demonstrating that women are not the second sex but a separate sex unique in body mind and spirit Just Like a Woman explains what it means to live in a woman s body think with a woman s brain drink in the world with a woman's senses and react with a woman's sensibility to the stresses and elations of her multiple roles Refreshingly free of ideology this meticulously documented book offers a stunningly liberating message that expands our concept of human potential and will forever change the way every woman views herself Popular Science, 2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it Drug Discovery and Evaluation: Safety and Pharmacokinetic Assays Franz J. Hock, Michael K. better Pugsley, 2024-10-21 Many aspects of drug safety have become an outstanding and even persistent issue and may occur during the process of both drug discovery and development Until 15 years ago drug discovery and evaluation was primarily a sequential process starting with the selection of the most pharmacologically active compound from a series of newly synthesized small molecule chemical series by means of distinctive pharmacological assays Safety aspects were addressed by evaluation of the selected compound at high doses in a series of specific studies directed at indications other than the intended indication of the new compound These tests are then followed by pharmacokinetic studies which are primarily conducted to confirm whether the selected compound possesses a suitable half life for sufficient exposure and efficacy and whether it has the desired properties specificity to the intended route of administration Safety aspects relied predominantly on the conduct of single and repeat toxicologydose studies which inform changes in organ structure rather than organ function Both toxicological and pharmacokinetic studies are adapted to the progress of studies in clinical pharmacology and

clinical trials The new edition of this well and broadly accepted reference work contains several innovative and distinguished chapters This sequential strategy has been abandoned with this new version of the book for several reasons Of the possible multitude of negative effects that novel drugs may impart on organ function e g ventricular tachy arrhythmia many are detected too late in non clinical studies to inform clinicians On the other hand negative findings in chronic toxicity studies in animals may turn out to be irrelevant for human beings New scientific approaches e q high throughput screening human pluripotent stem cells transgenic animals knock out animals in silico models pharmaco genomics and pharmaco proteomics as well as Artificial Intelligence AI methods offered new possibilities There are several examples that show that the druggability of compounds was considerably underestimated when the probability of success of a new project was assessed The success rate in the pharmaceutical industry and the introduction of new chemical entities to the market per year dropped dramatically whereas the development time for a new compound increased sometimes exceeding the patent protection Research and development scientists involving the following changes therefore adopted a change of strategy Parallel instead of sequential involvement of the various disciplines multidimensional compound optimization The term Safety Pharmacology was coined The International Conference on Harmonization ICH founded a Safety Pharmacology Working Group and the Safety Pharmacology Society SPS was launched The discipline provided for evaluation development and validation of a multitude of safety tests outlined in the Core Battery of Studies Characterizing the exposure profile of a drug by conducting pharmacokinetic studies that evaluates the absorption distribution metabolism and excretion should to be investigated at an early stage of development as results contribute to the selection of a compound for further development Advancements in Toxicology were achieved by the introduction of new methods e g in silico methods genetic toxicology computational toxicology and AI The book is a landmark in the continuously changing world of drug research and developments As such it is essential reading for many groups not only for all students of pharmacology and toxicology but also for industry scientists and physicians especially those involved in clinical trials of drugs and for pharmacists who must know the safety requirements of drugs The book is essential for scientists and managers in the pharmaceutical industry who are involved in drug discovery drug development and decision making in the development process In particular the book will be of use to government institutions and committees working on official guidelines for drug evaluation worldwide

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