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Identification and Quantification of Drugs, Metabolites, Drug Metabolizing Enzymes, and Transporters

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JAX RACHAEL

Biomedical Index to PHS-supported Research
Academic Press
Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life. Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications.Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties. Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe. This 4-partset of books contains precisely referenced chapters, emphasizing different kinds of polymers with basic fundamentals and practicality for application

in diverse pharmaceutical technologies. The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry. Each volume offer deep insight into the subject being treated. Volume 1: Structure and Chemistry Volume 2: Processing and Applications Volume 3: Biodegradable Polymers Volume 4: Bioactive and Compatible Synthetic/Hybrid Polymers

k-Carrageenan Micropellets: Production and Dissolution Behavior

CRC Press

The 4th edition of Drug Interactions in Infectious Diseases is being split into two separate volumes – “Mechanisms and Models of Drug Interactions” and “Antimicrobial Drug Interactions”. This volume, “Mechanisms and Models of Drug Interactions,” delivers a text that enhances clinical knowledge of the complex mechanisms, risks, and consequences of drug interactions associated with antimicrobials, infection, and inflammation. The book provides a comprehensive review of basic clinical pharmacology with a focus on metabolism and transporter-mediated drug interactions. The chapters address materials that cannot be retrieved easily in the medical literature, including materials focused on the complex interrelationship of acute infection, inflammation, and the risk of drug interactions in the Drug-

Cytokine chapter. The Food-Drug and Herb-Drug interactions chapters remain definitive resources. A new chapter on in vitro modeling of drug interactions is included along with updates on design and data analysis of clinical drug interaction studies. Authoritative discussion of models for regulatory decision-making on drug-drug interactions provides the necessary framework to aid antimicrobial drug development. This concise review of the mechanisms and models of drug interactions provides important insights to health care practitioners as well as scientists in drug development. Pharmaceutics [GPAT] – Books [Study Notes] 7 in 1 Books with 2500+ Question Answer As Per Updated Syllabus Springer Drug therapy via inhalation route is at the cutting edge of modern drug delivery research. There has been significant progress on the understanding of drug therapy via inhalation products. However, there are still problems associated with their formulation design, including the interaction between the active pharmaceutical ingredient(s) (APIs), excipients and devices. This book seeks to cover some of the most pertinent issues and challenges of such formulation design associated with industrial production and desirable clinical outcome. The chapter topics have been selected with a view to integrating the factors that require consideration in the selection and

design of device and formulation components which impact upon patient usability and clinical effectiveness. The challenges involved with the delivery of macromolecules by inhalation to both adult and pediatric patients are also covered. Written by leading international experts from both academia and industry, the book will help readers (formulation design scientists, researchers and post-graduate and specialized undergraduate students) develop a deep understanding of key aspects of inhalation formulations as well as detail ongoing challenges and advances associated with their development.

Stimulated Raman Scattering Microscopy

John Wiley & Sons

Nano-carriers for Drug Delivery: Nanoscience and Nanotechnology in Drug Delivery presents recent discoveries in research on the pharmaceutical applications of the various types of nanosystem-based drug delivery systems. As many nanosystems have reached the market over the past decade, this book proves their benefits to patients. It explores these new carriers and the advances in drug delivery they have facilitated. Reflecting the interdisciplinary nature of the subject matter, the book includes experts from different fields, and with various backgrounds and expertise. It will appeal to researchers and students from different disciplines, such as materials science, technology and various

biomedical fields. Coverage includes industrial applications that bridge the gap between lab-based research and practical industrial use. The resulting work is a reference and practical source of guidance for researchers, students and scientists working in the fields of nanotechnology, materials science and technology and biomedical science. Enables readers from different fields to access recent research and protocols across traditional boundaries Focuses on protocols and techniques, as well as the knowledge base of the field, thus enabling those in R&D to learn about, and successfully deploy, cutting-edge techniques Includes sections on nanocarrier systems

API Textbook of Medicine (Volume I & II) Royal Society of Chemistry Reflecting the embryonic state of the field, the first edition of Dermatoxicology, published in 1977, numbered 567 pages. Now the foundational reference in dermal toxicology, this seventh edition consists of 1,032 pages and defines what was once a largely intuitive field but has evolved into an established science of metrics and mechanisms. Updated and expanded to reflect the latest developments, the seventh edition includes fundamental information on the mechanisms of action of toxic substances on the skin and practical information on the many methods for evaluating dermal toxicity.

Unparalleled in its coverage and broad in scope, with the addition of 34 new chapters, this volume keeps pace with the expanding science. A perennial bestseller, this definitive text explores the latest developments in the field. With contributions from leading international experts, it continues the tradition of providing unsurpassed theoretical and practical guidance.

Stockley's Drug Interactions John Wiley & Sons

Adverse Drug Interactions: A Handbook for Prescribers assists clinicians by providing key information on potential adverse effects that can result from prescribing two or more drugs for simultaneous use. Interactions that are likely to give rise to life-threatening conditions, and which must therefore be completely avoided, are clearly highlighted.

Kucers' The Use of Antibiotics Elsevier Science

Kucers’ The Use of Antibiotics is the definitive, internationally-authored reference, providing everything that the infectious diseases specialist and prescriber needs to know about antimicrobials in this vast and rapidly developing field. The much-expanded Seventh Edition comprises 4800 pages in 3 volumes in order to cover all new and existing therapies, and emerging drugs not yet fully licensed. Concentrating on the treatment of infectious diseases, the content is divided into four sections - antibiotics, anti-fungal drugs, anti-parasitic

drugs, and anti-viral drugs - and is highly structured for ease of reference. Each chapter is organized in a consistent format, covering susceptibility, formulations and dosing (adult and pediatric), pharmacokinetics and pharmacodynamics, toxicity, and drug distribution, with detailed discussion regarding clinical uses - a feature unique to this title. Compiled by an expanded team of internationally renowned and respected editors, with expert contributors representing Europe, Africa, Asia, Australia, South America, the US, and Canada, the Seventh Edition adopts a truly global approach. It remains invaluable for anyone using antimicrobial agents in their clinical practice and provides, in a systematic and concise manner, all the information required when prescribing an antimicrobial to treat infection.

Drug Interactions Springer Science & Business Media

Dosage Form Design Parameters, Volume II, examines the history and current state of the field within the pharmaceutical sciences, presenting key developments. Content includes drug development issues, the scale up of formulations, regulatory issues, intellectual property, solid state properties and polymorphism. Written by experts in the field, this volume in the Advances in Pharmaceutical Product Development and Research series deepens our understanding of dosage form design parameters. Chapters delve into a particular

aspect of this fundamental field, covering principles, methodologies and the technologies employed by pharmaceutical scientists. In addition, the book contains a comprehensive examination suitable for researchers and advanced students working in pharmaceuticals, cosmetics, biotechnology and related industries. Examines the history and recent developments in drug dosage forms for pharmaceutical sciences Focuses on physicochemical aspects, prefomulation solid state properties and polymorphism Contains extensive references for further discovery and learning that are appropriate for advanced undergraduates, graduate students and those interested in drug dosage design

Drug Interactions in Infectious Diseases: Mechanisms and Models of Drug Interactions JP Medical Ltd

Explore the cutting-edge of dissolution testing in an authoritative, one-stop resource In Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence: Science, Applications, and Beyond, distinguished pharmaceutical advisor and consultant Dr. Umesh Banakar delivers a comprehensive and up-to-date reference covering the established and emerging roles of dissolution testing in pharmaceutical drug development. After discussing the fundamentals of the subject, the included resources go on to

explore common testing practices and methods, along with their associated challenges and issues, in the drug development life cycle. Over 19 chapters and 1100 references allow practicing scientists to fully understand the role of dissolution, apart from mere quality control. Readers will discover a wide range of topics, including automation, generic and biosimilar drug development, patents, and clinical safety. This volume offers a one-stop resource for information otherwise scattered amongst several different regulatory regimes. It also includes: A thorough introduction to the fundamentals and essential applications of pharmaceutical dissolution testing Comprehensive explorations of the foundations and drug development applications of bioavailability and bioequivalence Practical discussions about solubility, dissolution, permeability, and classification systems in drug development In-depth examinations of the mechanics of dissolution, including mathematical models and simulations An elaborate assessment of biophysiologically relevant dissolution testing and IVIVCs, and their unique applications A complete understanding of the methods, requirements, and global regulatory expectations pertaining to dissolution testing of generic drug products Ideal for drug product development and formulation scientists, quality control and

assurance professionals, and regulators, Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence is also the perfect resource for intellectual property assessors.

Oral Controlled Release Formulation Design and Drug Delivery CRC Press

Inorganic Controlled Release Technology: Materials and Concepts for Advanced Drug Formulation provides a practical guide to the use and applications of inorganic controlled release technology (iCRT) for drug delivery and other healthcare applications, focusing on newly developed inorganic materials such as bioresorbable glasses and bioceramics. The use of these materials is introduced for a wide range of applications that cover inorganic drug delivery systems for new drug development and the reformulation of existing drugs. The book describes basic concepts, principles, and industrial practices by discussing materials chemistry, physics, nano/microstructure, formulation, materials processing, and case studies, as well as the evaluation and characterization of iCRT systems commonly investigated during industrial R&D. Provides the first book on inorganic controlled release technology (iCRT), covering key aspects from chemistry, physics, synthetic methods, formulation design, characterization and evaluation Includes several industry-related

case studies to provide practical guidance on how to use iCRT as an alternative to organic polymers systems for both future drug developments and other active ingredient applications
Demonstrates how iCRT offers an unmet business need for improved, controlled release of actives versus traditional CRT systems, which are known to have difficulty with the controlled delivery of both poorly and highly water soluble drug compounds

Developing Solid Oral Dosage Forms Springer Nature
This is a source book of adverse drug reactions covering their clinical importance, mechanisms and management. This fourth edition has been revised from an extensive database. Major interaction mechanisms are followed by alphabetically-arranged material covering all the drug groups. As with prior editions, there is a series of monographs with a consistent plan devised to offer quick and easy reading. Both British and American drug names have been used throughout the book and bibliogrpahies are provided for those who wish to use the book as a reference source.
Advances in Artificial Intelligence Elsevier
This is the first report of a systematic investigation on the production of micropellets (500 µm to 700 µm median diameter). In general, κ-carrageenan is a suitable pelletization aid to produce spherical aggregates by wet

extrusion/ spheronization. The obtained pellets show fast drug release, which is advantageous for use with slightly soluble drugs. The mechanism of spheronization for micropellets differed to that for bigger pellets. The conditions for spheronization reported for bigger pellets could not be used to produce micropellets. The optimization of the process parameters for producing micropellets was performed on two different types of spheronizers. The dissolution behavior of the micropellets containing κ-carrageenan and different APIs was investigated in terms of the effects of ionic interactions. To evaluate the ionic interactions, different chloride salts such as sodium chloride or calcium chloride, among other dissolution media, were added. The different cations used are generally known as ‘specific’- and ‘non-specific’- binding ions to the κ-carrageenan. A correlation was found between the dissolution behavior of micropellets comprising κ-carrageenan and the classification of the dissolved ions. When the ratio between API and κ-carrageenan in the micropellets was varied, a relation between the dissolution rate and the solubility of the API was shown. The dissolution rate of soluble drugs was not affected by the ratio resulting in fast drug release independent of the media. In contrast, the dissolution profiles of micropellets comprising κ-carrageenan and either very slightly soluble or practically insoluble drugs

were dependent on the concentration of the ions. For example, drug release from micropellets comprising κ-carrageenan was slower with increasing amounts of calcium ions in the dissolution media. Matrix dissolution of the anomalous (non-Fickian) diffusion type was obtained. The dissolution behavior was affected by ionic interactions. The correlation between the ratio of API and κ-carrageenan only existed when ionic solutions such as calcium chloride were used as the dissolution media and not with deionized water. Further investigations with practically insoluble drugs showed that the API was a key determinant on the dissolution behavior. By means of a model, the relation between the dissolution behavior of micropellets, the solubility of the API and the ionic interactions with κ-carrageenan was described. In addition, the effects of different fillers on the dissolution behavior of micropellets were investigated. The type and the amount of filler affected the dissolution behavior. The drug release was improved in the presence of water-soluble lactose monohydrate. However, the effect of the solubility of the fillers was negligible on the dissolution behavior when the amount of API was increased and the amount of filler was decreased. In conclusion, the results of this thesis showed that fast dissolving micropellets were produced by wet extrusion/ spheronization.

However, the drug release is strongly dependent on the formulation and the conditions of the dissolution media. Based on the extensive analysis of the ionic interactions on κ-carrageenan it is possible to explain the dissolution behavior of micropellets in the presence of ions, which enables conclusions about food interactions to be drawn. Based on this, measures to improve the availability of the drug can be initiated.

Handbook of Polymers for Pharmaceutical Technologies, Structure and Chemistry DIWAKAR EDUCATION HUB

Safely and effectively treat a full range of skin disorders with Comprehensive Dermatologic Drug Therapy, 3rd Edition! This trusted dermatology reference provides concise, complete, up-to-date guidance on today's full spectrum of topical, intralesional, and systemic drugs. Dr. Steven E. Wolverton and a team of leading international experts clearly explain what drugs to use, when to use them, and what to watch out for. Prescribe with confidence thanks to quick-access summaries of indications/contraindications, dosage guidelines, drug interactions, drug monitoring guidelines, adverse effects, and treatment protocols. Assess your knowledge and prepare for certification or recertification with more than 800 review questions and answers throughout the book. Contain costs and meet patient

expectations with purchase information provided for major drugs. Quickly evaluate drug options for each disease discussed using a highly detailed, disease-specific index. Discover the best uses for new biologic therapeutics such as ustekinumab and rituximab, as well as newly improved TNF inhibitors. Offer your patients the very latest in cosmetic procedures, including chemical peels, intradermal fillers, and botulinum toxin. Use the safest and most effective drugs possible with new chapters on irritants and allergens in topical therapeutic agents, plus a new, separate chapter on mycophenolate mofetil. Review drugs recently taken off the market by the FDA, and use that knowledge to improve your current dermatologic drug therapy. Access the complete contents online at www.expertconsult.com and perform rapid searches for drug indications, interactions, monitoring guidelines, and much more.

Identification and Quantification of Drugs, Metabolites, Drug Metabolizing Enzymes, and Transporters CRC Press

Veterinary Pharmacology and Therapeutics, Tenth Edition is a fully updated and revised version of the gold-standard reference on the use of drug therapy in all major veterinary species. Provides current, detailed information on using drug therapies in all major domestic animal species Organized logically by drug class and treatment

indication, with exhaustive information on the rational use of drugs in veterinary medicine Includes extensive tables of pharmacokinetic data, products available, and dosage regimens Adds new chapters on pharmaceutics, ophthalmic pharmacology, food animal pharmacology, and aquatic animal pharmacology Includes access to a companion website with the figures from the book in PowerPoint

Cancer Clinical Pharmacology Cuvillier Verlag

Stockley's Drug Interactions provides the busy health professional with reliable and comprehensive information on the thousands of drug interactions on record. All data are presented in a consistent and concise format to promote quick and easy reading.

Drug Delivery John Wiley & Sons

This book describes the theories, applications, and challenges for different oral controlled release formulations. This book differs from most in its focus on oral controlled release formulation design and process development. It also covers the related areas like preformulation, biopharmaceutics, in vitro-in vivo correlations (IVIVC), quality by design (QbD), and regulatory issues.

Polymorphism CRC Press

Pharmaceutics [GPAT] – Books [Study Notes] 7 Books with 2500+ Question Answer As Per Updated Syllabus Design by Expert Faculties for

Secure 152 Marks in Graduate Pharmacy Aptitude Test [Asked 38 MCQ in Exam] Highlights of Books – As Per Updated Syllabus Graduate Pharmacy Aptitude Test 7 Booklets theory + MCQ In Each Book given 4 Chapters in Details [Total 28] Covered all 28 Chapters – Ex Pharmacy Profession & Introduction to Pharmaceuticals, Introduction to dosage form, Sources of drug information Total 2500 + Questions Answer [Numerical with Explanation] Design by Pharma Professor & Topper Qualified Students Total 7 Booklets For Secured 152 Marks in Exam For More Details Call/Whats App -7310762592,7078549303

Nanotechnology in Herbal Medicine Academic Press CD-ROM in pocket attached to inside front cover of volume 1.

Comprehensive Dermatologic Drug Therapy Academic Press This fully revised edition of Handbook of Pharmaceutical Granulation Technology covers the rapid advances in the science of agglomeration, process control, process modelling, scale-up, emerging particle engineering technologies, along with current regulatory changes presented by some of the prominent scientist and subject matter experts around the globe. Learn from more than 50 global subject matter experts who share their years of experience in areas ranging from drug delivery and pharmaceutical

technology to advances in nanotechnology. Every pharmaceutical scientist should own a copy of this fourth edition resource. Key Features: Theoretical discussions covering granulation and engineering perspectives. Covers new advances in expert systems, process modelling and bioavailability Chapters on emerging technologies in particle engineering Updated Current research and developments in granulation technologies

Handbook of Pharmaceutical Granulation Technology John Wiley & Sons

Although the concept of allosterism has been known for over half a century, its application in drug discovery has exploded in recent years. The emergence of novel technologies that enable molecular-level ligand-receptor interactions to be studied in studied in unprecedented detail has driven this trend. This book, written by the leaders in this young research area, describes the latest developments in allosterism for drug discovery. Bringing together research in a diverse range of scientific disciplines, Allosterism in Drug Discovery is a key reference for academics and industrialists interested in understanding allosteric interactions. The book provides an in-depth review of research using small molecules as chemical probes and drug candidates that interact allosterically with proteins of relevance to life sciences and human disease. Knowledge of these interactions can

then be applied in the discovery of the novel therapeutics of the future. This book will be useful for people working in all disciplines associated with drug discovery in academia or industry, as well as postgraduate students who may be working in the design of allosteric modulators.

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