Pharmaceutical Toxicology Mulder

Pharmaceutical Toxicology, Biomedical and Pharmaceutical Polymers, Clarke's Analysis of Drugs and Poisons, Cardiovascular Safety in Drug Development and Therapeutic Use, Applications of LC-MS in Toxicology, Integrated Cardiac Safety, New Drug Development, Critical Care Toxicology, Basic Principles of Membrane Technology, Nonclinical Safety Assessment

Toxicology studies are carried out on all drug substances to ensure safety. This book provides an overview of the methodology andrequirements of pre-clinical safety assessments of new medicines. with the focus on medicinal drugs - the most important safety issues of drugs are covered, including registration requirements of new drugs and pharmacovigilance. This is an introductory text for students at BSc, MSc and PhD levels,and will be an excellent companion to pharmacology textbooks, combining a broad treatment of the issues relevant for assessing the safety/efficacy balance of a new drug wit

This much needed and timely book will provide students with an introduction to general concepts of polymer science and some insights into speciality polymers. Polymers are becoming increasingly present in the domain of health yet introduction to polymers is not frequently taught. Biomedical and Pharmaceutical Polymers is the only book available for introducing polymers to graduate or post-graduate students who use them in the biomedical and pharmaceutical fields. In four sections the book covers: * why study polymers for the health sciences? * general characteristics of polymers * main methods and processes to synthesize polymers * special properties of polymers The final section of the book also contains case studies and detailed examples of biomedical and pharmaceutical applications. Biomedical and Pharmaceutical Polymers is a user-friendly textbook which will be an essential reference for postgraduate pharmaceutical science students, pharmaceutical scientists worldwide and pharmacy undergraduate students with an interest in polymers.

This practical manual and standard reference work provides the definitive source of analytical data for drugs and poisons. It is intended for use primarily by scientists faced with identifying and quantifying thes substances in body fluids, tissue samples and pharmaceutical and industrial products. The completely revised and expanded third edition of 'Clarke's Analysis of Drugs and Poisons' has been written by over 40 international experts, and also boosts an editorial advisory board of over 45 world renowned scientists. The new edition of 'Clarke's Analysis of Drugs and Poisons' now comprises two volumes, housed in a durable slipcase. Volume one contains 31 chapters by leading international scientists covering the practice areas and analytical procedures used in analytical toxicology. Volume two contains 1737 drug and poison monographs detailing physical properties, analytical methods, pharmacokinetic data and toxicology data.

At a time when the field of cardiac safety is going through important changes, this unique book provides the rationale for, and cutting-edge explanations of, new regulatory landscapes that will likely govern cardiac safety assessments globally for the foreseeable future. Exposure-response modeling is already being accepted by regulatory agencies in lieu of the traditional Thorough QT/QTc Study, and the Comprehensive in vitro Proarrhythmia Assay initiative is well under way. Developments in the field of cardiovascular safety are also described and discussed in the book. These include the search for more efficient ways to exonerate new drugs for type 2 diabetes from an unacceptable cardiovascular liability, how best to address off-target blood pressure increases induced by noncardiovascular drugs, and the continued evolution of the discipline of Cardio-oncology. “a resource that will likely serve as a standard for years to come” - Dr Jonathan Seltzer Therapeutic Innovation & Regulatory Science, 2017;51(2):180 “I have no hesitation in recommending this book as a valuable reference source” - Dr Rashmi Shah Journal for Clinical Studies, 2017;9(1):62-63

Univ. of Pavia, Italy. Covers all essential theoretical aspects of LC-MS, including technical details of the instrumentation and different operating modes, method development, optimisation and validation, quantification, and criteria for identification and confirmation. For forensic and clinical toxicologists.

The serious nature of cardiovascular adverse drug reactions occurring in patients makes assessment of a drug's cardiac safety profile a high priority during both development and post-approval monitoring. Integrated Cardiac Safety provides necessary guidance and methodology for professionals assessing cardiac safety of drugs throughout all stages of the drug's life, from discovery and development through postmarketing research. This self-contained, reader-friendly text is valuable to professionals in the pharmaceutical, biotechnology, and CRO industries, pharmacologists, toxicologists, government officials, and students.

This book acquaints students and practitioners in the related fields of pharmaceutical sciences, clinical trials, and evidence-based medicine with the necessary study design concepts and statistical practices to allow them to understand how drug developers plan and evaluate their drug development. Two goals of the book are to make the material accessible to readers with minimal background in research and to be straightforward enough for self-taught purposes. By bringing the topic from the early discovery phase to clinical trials and medical practice, the book provides an indispensable overview of an otherwise confusing and fragmented set of topics. The author’s experience as a respected scientist, teacher of statistics, and one who has worked in the clinical trials arena makes him well suited to write such a treatise.

This critical care toxicology resource details patient care from hospital admission and treatment all the way through stabilization, monitoring, and discharge. It presents practical, state-of-the-art treatment recommendations based on initial and subsequent presentation of symptoms, and describes when it's safe to discharge the patient. Individual sections comprehensively cover general management of the critically poisoned patient, toxic syndromes, poisoning by medications, drugs of abuse, chemical agents, biological toxins, agents of chemical and biological terrorism, and antidotes.

Membranes playa central role in our daily life, or as indicated by one of my foreign colleagues, Richard Bowen, 'If you are tired of membranes, you are tired of life' . Biological membranes are hardly used in industrial applications, but separations with synthetic membranes have become increasingly important. Today, membrane processes are used in a wide range of applications and their numbers will certainly increase. Therefore, there is a need for well educated and qualified engineers, chemists, scientists and technicians who have been taught the basic principles of membrane technology. However, despite the growing importance of membrane processes, there are only a few universities that include membrane technology in their regular curricula. One of the reasons for this may be the lack of a comprehensive textbook. For me, this was one of the driving forces for writing a textbook on the basic principles of membrane technology which provides a broad view on the various aspects of membrane technology. I realise that membrane technology covers a broad field but nevertheless I have tried to describe the basic principles of the various disciplines. Although the book was written with the student in mind it can also serve as a first introduction for engineers, chemists, and technicians in all kind of industries who wish to learn the basics of membrane technology.

Bringing a new drug to market is a costly time-consuming process.Increased regional and international regulation over the lasttwenty years, while necessary, has only served to amplify thesecosts. In response to this escalation, developmental strategieshave shifted towards a more global approach. In order to create themost cost-effective and safe processes, it is critical for thosebringing drugs to market to understand both the globally acceptedregulations and the local variations. Nonclinical SafetyAssessment: A Guide to International Pharmaceutical Regulationsprovides a practical description of nonclinical drug developmentregulations and requirements in the major market regions. It includes: ICH – the International Conference on Harmonisation ofTechnical Requirements for Registration of Pharmaceuticals forHuman Use National regulations, including US FDA, Canada, Mercosur andBrazil, South Africa, China, Japan, India and Australia Repeated dose toxicity studies Carcinogenicity; Genotoxicity; Developmental and reproductivetoxicology; Immunotoxicology Biotechnology-derived pharmaceuticals Vaccine development Phototoxicity and photocarcinogenicity Degradants, impurities, excipients and metabolites Primarily intended for those professionals actively involved inthe nonclinical and clinical development of a pharmaceuticalproduct, including toxicologists, pharmacologists, clinicians andproject managers, this book provides a roadmap for successful newdrug approval and marketing.

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