Biofarmacia Y Farmacocinetica Volumen 1

This is an authoritative, comprehensive book on the fate of drug molecules in the body, including implications for pharmacological and clinical effects. The text provides a unique, balanced approach, examining the specific physical and biological factors affecting the absorption, distribution, metabolism and excretion of drugs, together with mathematical assessment of the concentrations in plasma and body fluids. Understanding the equations requires little more than a basic knowledge of algebra, laws of indices and logarithms, and very simple calculus. A companion web site contains additional illustrations, further equations and numerous worked examples. Whilst this book has its roots in the highly acclaimed book of the same name, written by Stephen Curry nearly thirty years ago, it is essentially a new book having been restructured and largely rewritten. This readable and informative book is an invaluable resource for professionals and students needing to develop a rational approach to the investigation and application of drugs.

This book represents the invited presentations and some of the posters presented at the conference entitled "In Vitro-In Vivo Relationship (IVIVR) Workshop" held in Sep tember, 1996. The workshop was organized by the IVIVR Cooperative Working Group which has drawn together scientists from a number of organizations and institutions, both academic and industrial. In addition to Elan Corporation, which is a drug delivery com pany specializing in the development of ER (Extended Release) dosage forms, the IVIVR Cooperative Working Group consists of collaborators from the University of Maryland at Baltimore, University College Dublin, Trinity College Dublin, and the University of Not tingham in the UK. The principal collaborators are: Dr. Jackie Butler, Elan Corporation Prof. Owen Corrigan, Trinity College Dublin Dr. lain Cumming, Elan Corporation Dr. John Devane, Elan Corporation Dr. Adrian Dunne, University College Dublin Dr. Stuart Madden, Elan Corporation Dr. Colin Melia, University of Nottingham Mr. Tom O'Hara, Elan Corporation Dr. Deborah Piscitelli, University of Maryland at Baltimore Dr. Araz Raoof, Elan Corporation Mr. Paul Stark, Elan Corporation Dr. David Young, University of Maryland at Baltimore The purpose of the workshop was to discuss new concepts and methods in the devel opment of in vitro-in vivo relationships for ER products. The original idea went back ap proximately 15 months prior to the workshop itself. For some time, the principal collaborators had been working together on various aspects of dosage form development.

Enfoque orientado a la comprensión de los conceptos fundamentales mediante la resolución de problemas. Cada capítulo comienza con un repaso teórico de esquemas y ecuaciones, seguido de problemas resueltos paso a paso. Nueva estructura en cinco secciones con cinco capítulos nuevos. Amplio equipo de colaboradores, integrado por profesores e investigadores de distintos ámbitos.Dirigida a los alumnos de Farmacia y a distintos especialistas sanitarios, de la industria farmacéutica y de la Administración Sanitaria. Incluye material online en studentconsult.es con problemas extra por capítulo, actualización de las aplicaciones Excel de regresión no lineal y archivos para la impresión de papel milimetrado y semilogarítmico. Obra dirigida principalmente a estudiantes del grado de Farmacia, que instruye al alumno en la práctica y resolución de problemas de Biofarmacia y Farmacocinética. La nueva edición cuenta con seis nuevos capítulos y colaboradores de otras facultades españolas. Desglosa las cinéticas de liberación más habituales y los modelos farmacocinéticos más utilizados en la descripción de la evolución temporal de las concentraciones de fármaco por el organismo y supone un barrido muy completo de los principales modelos farmacocinéticos compartimentales y su explicación a través de la resolución de problemas numéricos y de cuestiones teórico prácticas. En la página web en studentconsult.es se incluyen problemas adicionales y herramientas para imprimir papel milimetrado y semilogarítmico, y unas aplicaciones para resolver los problemas mediante regresión no lineal.

La farmacología es una ciencia eminentemente interdisciplinaria e integradora de conocimientos básicos que contribuyen a establecer un tratamiento terapéutico integral en el paciente. Los avances científicos de las últimas décadas han transformado profundamente los conocimientos de la medicina y, en particular de la farmacología. En breve, la farmacogenómica y la medicina génica serán herramientas indispensables que permitirán a los médicos lograr una terapia individualizada. El presente libro ha sido concebido y realizado con el propósito de ofrecer, en forma práctica e innovadora, los conocimientos esenciales y de vanguardia, que la farmacología ofrece. Simultáneamente, se busca presentar una comprensión integral de la regulación e intervención farmacológica de aparatos y sistemas que dan sustento a una terapia racional. El contenido está dividido en seis unidades principales fácilmente localizables por color: Farmacología general, Farmacología especial, Quimioterapia, Inmunofarmacología, Toxicología y apéndices. La estructura de Farmacología médica está basada en métodos pedagógicos reconocidos y probados en las aulas, ofreciendo a los estudiantes un sistema integral de aprendizaje. Cada capítulo cuenta con: Objetivos de aprendizaje, útiles para centrarse en los temas mas importantes; Tabla de contenido, en donde podrá visualizar y estructurar mentalmente cada uno de los temas desarrollados; Autoevaluaciones, donde se plantean preguntas de razonamiento que permitirán favorecer el estudio autodirigido; Casos clínicos, donde se plantean preguntas que desafían al estudiante a utilizar los conocimientos aprendidos en situaciones reales específicas, estableciendo correlaciones entre los conceptos farmacológicos y sus aplicaciones clínicas; Excelentes acuarelas que explican, en un lenguaje artístico, conceptos relevantes que dan fundamento a la farmacología así como diferentes tipos de ilustraciones y animaciones en dos (2D) y tres dimensiones (3D) que se incluyen en un CD interactivo. El CD interactivo ha sido desarrollado para reforzar los conocimientos adquiridos durante el curso y está dividido en 4 secciones: 1.- Animaciones, 2.- Autoevaluaciones, 3.- Juegos (maratón, memoria y ahorcado) y 4.- Personajes de la farmacología Cuenta un Sitio Web donde encontrará recursos adicionales como: Generador de exámenes y las respuestas a los objetivos planteados por cada autor. Farmacología médica le ayudará a través de todas estas herramientas a construir un aprendizaje significativo de la materia y cimentará los efectos de los fármacos así como el uso reflexivo de ellos, obligación fundamental en la formación científica del médico.

This first ever coverage of the pharmacokinetic and pharmacodynamic characteristics of biopharmaceuticals meets the need for a comprehensive book in this field. It spans all topics from lead identification right up to final-stage clinical trials. Following an introduction to the role of PK and PD in the development of biotech drugs, the book goes on to cover the basics, including the pharmacokinetics of peptides, monoclonal antibodies, antisense oligonucleotides, as well as viral and non-viral gene delivery vectors. The second section discusses such challenges and opportunities as pulmonary delivery of proteins and peptides, and the delivery of oligonucleotides. The final section considers the integration of PK and PD concepts into the biotech drug development plan, taking as case studies the preclinical and clinical drug development of tasidotin, as well as the examples of cetuximab and pegfilgrastim. The result is vital reading for all pharmaceutical researchers.

This comprehensive reference provides an in-depth discussion on state-of-the-art regulatory science in bioequivalence. In sixteen

chapters, the volume explores a broad range of topics pertaining to bioequivalence, including its origin and principles, statistical considerations, food effect studies, conditions for waivers of bioequivalence studies, Biopharmaceutics Classification Systems, Biopharmaceutics Drug Disposition Classification System, bioequivalence modeling/simulation and best practices in bioanalysis. It also discusses bioequivalence studies with pharmacodynamic and clinical endpoints as well as bioequivalence approaches for highly variable drugs, narrow therapeutic index drugs, liposomes, locally acting gastrointestinal drug products, topical products and nasal and inhalation products. FDA Bioequivalence Standards is written by FDA regulatory scientists who develop regulatory policies and conduct regulatory assessment of bioequivalence. As such, both practical case studies and fundamental science are highlighted in these chapters. The book is a valuable resource for scientists who work in the pharmaceutical industry, regulatory agencies and academia as well as undergraduate and graduate students looking to expand their knowledge about bioequivalence standards.

This book deals with the basics, of the two disciplines of biopharmaceutics and pharmacokinetics. Different factors such as biological, physiochemical and formulation that influence the therapeutic efficacy of a drug are covered in biopharmaceutics. The absorption, distribution, metabolism and excretion of drugs are studied under this subject. Basics of biopharmaceutics and pharmacokinetics help to understand the various procedures and advances in drug design, product development, therapeutic drug monitoring, etc. The pharmacokinetics part of this book covers the fundamentals of one compartment open model, multi-compartmental models. One compartment open model is presented in an elaborate manner to make the students familiar with various aspects of pharmacokinetics. Mathematical equations are developed using simple integration and differentiation methods to enable the students to understand the concepts easily. Practice problems are provided where ever necessary, and a question bank is included at the end of each chapter to enhance student s knowledge. Extreme care has been exercised to present the concepts in a simple way. Every biological scientist should have knowledge in statistics in order to assess the significance of the results of his experiments. Hence, a chapter on biostatistics with practice problems is included in the book.

Students and faculty alike have attested to the extraordinary success rate of the Lippincott's Illustrated Reviews -- the unparalleled review texts that clarify the essentials students need to know for the Boards through an easy-to-use outline format. Now, this review series offers this updated Millennium Edition of Lippincott's Illustrated Review: Pharmacology, Second Edition that includes an updated and comprehensive insert containing information on important new drugs introduced since 1996. The index has been fully revised to reflect the additional information found within the text.Designed and edited by top educators, the book helps the student tie together the visual and cognitive elements of learning for superior recognition and recall. Many updated figures and tables, carefully crafted to complement and amplify the text, are completely integrated with the text. Infolink cross-references between the Pharmacology and Biochemistry volumes of the series, enabling students to interrelate the two disciplines.

Long considered the premier book on the subject, the third edition of Textbook of Geriatric Dentistry captures the major advancements in the field since the second edition published over a decade ago. The presentation of the book reveals the increasing prominence of gerodontology, alongside its heightened connections with related fields, particularly restorative dentistry. The structure of the new edition has been modernized considerably. Many of the physiological and gerontological aspects have been condensed into the clinical chapters. Color images are used more liberally throughout the book. The third edition provides an essential focus on the clinical aspects of geriatric dentistry, with a continued emphasis on the fundamental considerations that influence care.

This report presents the recommendations of an international group of experts convened by the World Health Organization to consider matters concerning the quality assurance of pharmaceuticals and specifications for drug substances and dosage forms. The report is complemented by a number of annexes. These include: a list of available international chemical reference substances and international infrared spectra; supplementary guidelines on good manufacturing practices for heating, ventilation and air-conditioning systems for non-sterile pharmaceutical dosage forms; updated supplementary guidelines on good manufacturing practices for the manufacture of herbal medicines; supplementary guidelines on good manufacturing practices for validation; good distribution practices for pharmaceutical products; a model quality assurance system for procurement agencies (recommendations for quality assurance systems focusing on prequalification of products and manufacturers, purchasing, storage and distribution of pharmaceutical products); multisource (generic) pharmaceutical products: guidelines on registration requirements to establish interchangeability; a proposal to waive in vivo bioequivalence requirements for WHO Model List of Essential Medicines immediate-release, solid oral dosage forms; and additional guidance for organizations performing in vivo bioequivalence studies. ...This is an excellent book with a misleading title... a good reference work for anyone seeking to understand the concept of validation and looking for general guidance on validation for both Active Pharmaceutical Ingredients (API) and finished pharmaceutical products. Annex 5 on Good distribution practices (GDP) for pharmaceutical products is an excellent Annex that splits the task of GDP into 20, small, easy to digest sections that guide the reader through the process of understanding the complexity of controlling distribution of pharmaceutical products. It contains a comprehensive glossary of terms used in GDP... a useful reference book for anyone involved in Quality Assurance, Manufacturing of marketed products, Clinical Manufacturing and Development. - Industrial Pharmacy

The third edition of the Toxicologist’s Pocket Handbook, like the first two editions, is a scaled-down version of the best-selling Handbook of Toxicology. It provides the most frequently used toxicology reference information in a convenient pocket-sized book. The format remains the same as the earlier editions to allow basic reference information to be located quickly, with the information placed in sections specific to subspecialties of toxicology. A detailed table of contents lists all tables and figures contained in the book by section. This expanded edition contains a number of tables not found in the second edition added to sections on lab animals, general toxicology, dermal and ocular toxicology, genetic toxicology/carcinogenesis, neurotoxicology, immunotoxicology, reproductive/developmental toxicology, industrial chemical, and pharmaceutical toxicology. New information is presented for additional laboratory animals such as swine and primates, infusion recommendations, newer methods such as the local lymph node assay, and reference safety pharmacology values for standard species. Additional information on typical genetic toxicology and immunotoxicology assays as well as in vitro assays for eye irritation are provided. Some tables from the second edition have been updated to include new information that has arisen since the earlier edition went to press. Information from the second edition, such as regulatory requirements that are no longer applicable, has been deleted.

A concise guide to mathematical modeling and analysis of pharmacokinetic data, this book contains valuable methods for maximizing the information obtained from given data. It is an ideal resource for scientists, scholars, and advanced students.

El propósito de este libro es sistematizar gran parte de los conocimientos de Farmacocinética, subrayando de modo especial los datos obtenidos en la especie humana, con vistas a su aprovechamiento final para el uso clínico de los medicamentos. Estos conocimientos pueden aplicarse a los estudios farmacocinéticos en animales del mismo modo que se aplican al hombre. La obra se ha concebido como libro de texto para alumnos de quinto y sexto curso de licenciatura y para graduados.

El Diccionario Terminológico de Ciencias Farmacéuticas de la Real Academia Nacional de Farmacia y Editorial Ariel consta de dos partes. La primera (inglés-español) tiene unos 15.000 términos, y la segunda (español-inglés), más de 13.000. Todos ellos han sido ordenados en torno a los siguientes 25 campos semánticos: 1. Análisis farmacéutico (absorbance ?absorbancia?, bacteria ?bacteria?, etc.). 2. Asistencia sanitaria (discharge ?alta [hospitalaria]?, relapse ?recaer?, etc.). 3. Bioética (code of conduct ?código deontológico?, living will ?testamento vital?, etc.). 4. Biofarmacia (bioavailability ?biodisponibilidad?, route ?vía de administración?, etc.). 5. Biología (chromosome ?cromosoma?, dendrite ?dendrita?, etc.). 6. Bioquímica (monosaccharide ?monosacárido?, peptidase ?peptidasa?, etc.). 7. Biotecnología (epoetin?eritropoyetina?, pegaspargase ?pegaspargasa?, etc.). 8. Derecho farmacéutico (holder ?titular?, infringement ?violación?, etc.). 9. Dermofarmacia (anti-aging ?anti-envejecimiento?, emollient ?emoliente?, etc.). 10. Fármaco (abacavir ?abacavir?, clobazam ?clobazam?, etc.). 11. Farmacoeconomía (brand-switching ?cambio de marca?, co-payment ?co-pago?, etc.). 12. Farmacología (drug absortion ?absorción de fármaco?, reuptake ?recaptación?, etc.). 13. Farmacoterapia (fast-acting drug ?fármaco de acción rápida?, vaccine ?vacuna?, etc.). 14. Fisio-anatomía (bronchi ?bronquios?, dura mater?, etc.). 15. Fitoterapia (belladonna ?belladona?, ginger ?jengibre?, etc.). 16. General (disposable ?desechable?, outcome ?desenlace?, etc.). 17. Historia de la farmacia (alchemy ?alquimia?, Mithridatis ?Mitridates?, etc.). 18. Nutrición (additive?aditivo?, starch ?almidón?, etc.). 19. Patología (acne ?acné?, asthma ?asma?, etc.). 20. Productos sanitarios (cotton wool ?algodón?, sanitary pad ?compresa sanitaria?, etc.). 21. Química farmacéutica (afinity ?afinidad?, dehydrogenation ?deshidrogenación?, etc.), 22. Salud pública (cannabis ?cannabis?, water supply ?abastecimiento de agua?, etc.), 23. Seguridad de medicamentos (harmful effect?efecto perjudicial?, drowsiness?somnolencia, etc). 24. Tecnología farmacéutica (coat ?revestimiento?, packaging ?acondicionamiento?, etc.). 25. Toxicología (accidental poisoning ?intoxicación involuntaria?, antidote ?antídoto?, etc.). Las ENTRADAS del diccionario siguen la pauta de estos ejemplos: epinephrine1 n: BIOQUÍMICA epinefrina; hormona segregada ?an hormone secreted? por la masa medular de las glándulas suprarrenales ?the medulla of the adrenal glands?, y liberada en el flujo sanguíneo ?released in the bloodstream? en respuesta a situaciones de ansiedad, miedo, etc. ? Epinephrine is a hormone that initiates many bodily responses, including the stimulation of heart action; V. metanephrine. [Exp: epinephrine2 (FÁRMACO epinefrina; se prepara este fármaco con extractos suprarrenales ?adrenal extracts? y también sintéticamente; se emplea como hemostático ?hemostatic?, como estimulante cardíaco ?heart stimulant?, como vasoconstrictor ?vasoconstrictor?, como relajante del asma bronquial ?bronchial relaxant?, etc. ? Epinephrine raises blood-pressure; V. adrenaline, adrenin, pressor)]. evergreening n: DERECHO reverdecimiento, [estrategias de] renovación permanente [de la validez de las patentes], procedimiento de prolongación de la vida útil ?shelf life? de fármacos expirados ?expired drugs?, prolongación en el tiempo de las patentes farmacéuticas; el término se utiliza también como verbo en la expresión to evergreen a patent, con el significado de «renovar constantemente» o «demorar al máximo la fecha de caducidad de una patente» [aprovechando, en lo posible, las escapatorias, o lagunas jurídicas ?loopholes? que se encuentran en las leyes] con el fin de prolongar el ciclo de vida de muchos medicamentos; a estos efectos, algunas industrias farmacéuticas han conseguido prorrogar la vigencia ?validity?de sus patentes, con la consiguiente protección que éstas ofrecen a sus medicamentos, patentando por separado algunos de los atributos patentables autorizados por la ley ?eligible patentable attributes?, entre los que sobresalen el acondicionamiento ?packaging?, el régimen posológico ?dosing regimen?, los cambios en la formulación ?changes in the formulation?, las dianas biológicas ?biological targets?, los fármacos de la siguiente generación ?next-generation drugs?, etc.; V. patent expiry, go off-patent. abortar1 v: HEALTH CARE/PATHOLOGY abort, to have an abortion; to have a miscarriage, miscarry ? La mujer embarazada no debe tomar misoprostol porque corre el riesgo de abortar. [Exp: abortar2 (HEALTH CARE stop, interrupt, put an end to ? El salbutamol suele emplearse para abortar los ataques de asma; S. interrumpir), abortivo (PHARMACOTHERAPY abortient, aborticide1, abortifacient drug, abortion-inducing drug; a substance that destroys the fetus and induces abortion ? La píldora abortiva provoca que el útero rechace el embrión), aborto (HEALTH CARE abortion, aborticide2; induced expulsion of a human fetus; S. embarazo)]. dopa n: BIOCHEMISTRY/DRUG dopa; acronym of dihidroxifenil-alanina, dihydroxyphenylalanine in English; it is an amino acid ?aminoácido? formed in the liver from tyrosine ?se forma en el hígado a partir de la tirosina? and converted to dopamine in the brain ?se convierte en dopamina en el cerebro?; it is used for the treatment of Parkinson's disease ?enfermedad de Parkinson?.

This volume, as the seventh of the series Medicinal and Aromatic Plants of the World, deals with the medicinal and aromatic plant (MAPs) treasures of the so-called Southern Cone, the three southernmost countries (Argentina, Chile and Uruguay) of South America. Similarly to the previous volumes of the series, the main focus is to collect and provide information on major aspects of botany, traditional usage, chemistry, production / collection practices, trade and utilization of this specific group of plants. The contributors, who are recognized professionals and specialist of the domain, have collected and present state of the art information on 41 species. Most of these are not only of interest from the scientific point of view, but hold also a potential for the prospective utilization of the decreasing, occasionally overexploited / endangered medicinal plant resources of this huge continent. The book is expected to serve as a source of information also on some less known or less studied species. As such the volume is expected to support future research and public health professionals.

In this new edition of a bestseller, all the contents have been updated and new material has been added, especially in the areas of toxicity testing and high throughput analysis. The authors, all of them employed at Pfizer in the discovery and development of new active substances, discuss the significant parameters and processes important for the absorption, distribution and retention of drug compounds in the body, plus the potential problems created by their transformation into toxic byproducts. They cover everything from the fundamental principles right up to the impact of pharmacokinetic parameters on the discovery of new drugs. While aimed at all those dealing professionally with the development and application of pharmaceutical substances, the readily comprehensible style makes this book equally suitable for students of pharmacy and related subjects.

Absorption, Distribution, Metabolism and Excretion (ADME) processes and their relationship with the design of dosage forms and the success of pharmacotherapy form the basis of this upper level undergraduate/graduate textbook. As an introduction oriented to pharmacy students, it is also written for scientist from different fields outside of pharmaceutics. (e.g. material scientist, material engineers, medicinal chemists) who might be working in a positions in pharmaceutical companies or whose work might benefit

from basic training in the ADME concepts and some biological background. Pedagogical features such as objectives, keywords, discussion questions, summaries and case studies add valuable teaching tools. This book will provide not only general knowledge on ADME processes but also an updated insight on some hot topics such as drug transporters, multi-drug resistance related to pharmacokinetic phenomena, last generation pharmaceutical carriers (nanopharmaceuticals), in vitro and in vivo bioequivalence studies, biopharmaceuticals, pharmacogenomics, drug-drug and food-drug interactions, and in silico and in vitro prediction of ADME properties. In comparison with other similar textbooks, around half of the volume would be focused on the relationship between expanding scientific fields and ADME processes. Each of these burgeoning fields has a separate chapter in the second part of the volume, and was written with leading experts on the correspondent topic, including scientists and academics from USA and UK (Duquesne University School of Pharmacy, Indiana University School of Medicine, University of Utah College of Pharmacy, University of Maryland, University of Bath). Additionally, each of the initial chapters dealing with the generalities of drug absorption, distribution, metabolism and excretion would include relevant, classic examples related to each topic with appropriate illustrations (e.g. importance of active absorption of levodopa, implications in levodopa administration, drug drug interactions and food drug interactions emerging from the active uptake; intoxication with paracetamol as a result of glutathione depletion, CYP induction and its relationship with acute liver failure caused by paracetamol, etc). ADME Processes and Pharmaceutical Sciences is written as a core textbook for ADME processes, pharmacy, pharmacokinetics, drug delivery, biopharmaceutics, drug disposition, drug design and medicinal chemistry courses.

Biofarmacia y farmacocinéticaFarmacocinética. Volumen IPrácticas de biofarmacia y farmacocinéticaEdicions Universitat Barcelona

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout.

De estilo sencillo y gil, la obra ha sido elaborada por profesores universitarios con amplia experiencia en la docencia de la Farmacologia en varias Escuelas de Fisioterapia, y en el abordaje farmacologico de los problemas fisioterap,uticos.

La obra recoge los fundamentos del sistema de clasificación biofarmacéutica y su aplicación al desarrollo de medicamentos vía oral. Se describen las metodologías experimentales para el estudio de la permeabilidad, solubilidad, y velocidad de disolución. Incluye la descripción básica de la fisología gastrointestinal y de la absorción a través de la membrana intestinal así como los factores determinantes de la liberación del fármaco en lo fluidos gastrointestinales. La obra pretende ser un manual para el desarrollo preclínico y clínico de medicamentos innovadores o genéricos que permitan sustentar la solicitud de bioexenciones y la demostración de la bioequivalencia in vitro.

Los autores se dirigen fundamentalmente a los servicios de Urgencias (hospitalarios y prehospitalarios) y unidades de Cuidados Intensivos, donde recaen las intoxicaciones agudas. La obra abarca también intoxicaciones crónicas que pueden tener como diana cualquier órgano, por lo que cuenta con la colaboración de especialistas en distintas áreas. El profesional hallará asimismo una descripción detallada de los posibles agentes causales de una órganotoxicidad y de su mecanismo fisiopatológico, al tiempo que información sobre los efectos tóxicos de centenares de productos. Se guía al lector en aspectos epidemiológicos de las intoxicaciones, en la comprensión de los mecanismos fisiopatológicos de la acción tóxica sobre los diversos órganos y sistemas y, sobre todo, en las acciones terapéuticas prioritarias en cada intoxicación. El texto se ha diseñado para acceder con rapidez a las diversas intoxicaciones y a sus respectivas medidas de actuación (técnicas, cuidados y tratamiento), tanto en el ámbito prehospitalario como el hospitalario. Pero se han incluido también algunos tóxicos, como los metales pesados, y algunas entidades, como la sensibilidad química múltiple, que tienen una mayor expresividad crónica y con frecuencia una relación con la actividad laboral del paciente. Obra que pretende ser útil para el manejo de las intoxicaciones, tanto agudas como crónicas y, por tanto, puede ser consultado por urgenciólogos e intensivistas, pero también por internistas, médicos de familia, especialistas en salud laboral y, en definitiva, por todo aquel que en su actividad profesional pueda encontrarse con algún caso de sospecha de intoxicación.

Packed with essential information on the diagnosis and treatment of blood and bone marrow disorders, "The Bethesda Handbook of Clinical Hematology, Third Edition" should be carried in the white coat pocket of the student, resident, or hematology/oncology service and in the briefcase of the internist, hospitalist, family practitioner, and pediatrician who sees patients with blood diseases. Look inside and discover...- Organization by disease category makes critical information easy to find and use.- Reader-friendly format includes tables, algorithms, meaningful figures, and bulleted lists that highlight vital facts.- Invaluable contributions from recognized experts and senior fellows bridge the gap between science and the clinical practice.- Concise coverage of the diagnosis and treatment makes the handbook ideal for quick reference, as well as for Board review! NEW to the Third Edition...- Emerging diagnostic and treatment strategies refine clinical decision-making.- Significantly revised and updated chapters describe recent advances in diagnosis and treatment of hematologic disorders. "Put this handy and portable guide to work for you and your patients...""Pick up your copy today!"

Servicios farmacéuticos hospitalarios. Conceptos, aplicaciones y ejemplificación, es un texto que contribuye a la formación del personal de salud, como respuesta al incremento de la importancia de la farmacia hospitalaria en la sociedad médica, ya que uno de sus objetivos principales es servir a la población, a través de la selección, cuidado, producción, entre otras actividades, orientadas a conseguir la utilización más apropiada, segura y económica de los medicamentos, en beneficio de los pacientes. Servicios farmacéuticos hospitalarios. Conceptos, aplicaciones y ejemplificación es una obra que le proporciona a las nuevas generaciones de farmacéuticos, los conocimientos y procedimientos más recientes, así como casos clínicos reales, que les permitirán desarrollar sus habilidades; por ejemplo con la discusión y resolución de estos en el aula o bien, como ejercicios de autoaprendizaje.

Capillary electrophoresis (CE) has become an established method with widespread recognition as an analytical technique of choice in numerous analytical laboratories, including industrial and academic sectors. Pharmaceutical and biochemical research and quality control are the most important CE applications. This book provides a comparative assessment of related techniques on mode selection, method development, detection, and quantitative analysis and estimation of pharmacokinetic parameters and broadens the understanding of modern CE applications, developments,

and prospects. It introduces the fundamentals of CE and clearly outlines the procedures used to mitigate several barriers, such as detection limits, signal detection, changing capillary environment, resolution separation of analytes, and hyphenation of mass spectrometry with CE, for a range of analytical problems. Each chapter outlines a specific electrophoretic variant with detailed instructions and some standard operating procedures. In this respect, the book meets its desired goal of rendering assistance to lovers of electrophoresis.

Las bases matemáticas y estadísticas aplicadas a los conceptos de biofarmacia y farmacocinética permiten obtener parámetros y constantes que cuantifiquen por una parte el comportamiento de liberación del mismo a partir de la forma farmacéutica que lo contiene y por otra el tránsito del fármaco a través del organismo. Los datos experimentales que se utilizan son, fundamentalmente, tabulados de cantidades disueltas de fármaco en función del tiempo (biofarmacia) y concentraciones plasmáticas de fármaco en función del tiempo (farmacocinética). Las prácticas de Biofarmacia y Farmacocinética tienen como objetivo que el alumno, soslayando el animal de experimentación, obtenga un tabulado experimental simulado a partir del cual calcule los parámetros y constantes correspondientes con el fin de poder interpretar el comportamiento biofarmacéutico y farmacocinético del fármaco y diseñar el régimen de dosificación óptimo para obtener el máximo rendimiento terapéutico