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Clinical Research in Asia

Opportunities and Challenges

Elsevier Asia is increasingly taking on a leading role in the fields of Good Clinical Practice (GCP) and ethics, two areas that are central to clinical research practices worldwide. Clinical research in Asia examines the evolution of these key sectors in the Asian countries where the greatest developments are taking place, offering valuable perspectives on a wide range of issues affecting clinical research. Following an introduction that provides an overview of the topic and its strengths and weaknesses, each chapter of the book is devoted to clinical research in a specific country, focusing on issues including the history and evolution of clinical research, clinical trials and regulatory aspects. The chapters also offer a perspective on future trends in clinical research in each country. The book concludes with a discussion of the importance of political, economic, socio-cultural, technological, legal and environmental factors (PESTLE analysis). Analysis from a leading and highly respected professional in the sector An overview of country-specific regulatory

environments Discussion of challenges and solutions for clinical research

Devalued and Distrusted

Can the Pharmaceutical Industry Restore its Broken Image?

John Wiley & Sons An expert's view on solving the challenges confrontingtoday's pharmaceutical industry Author John LaMattina, a thirty-year veteran of thepharmaceutical industry and former president of Pfizer's GlobalR&D Division, is internationally recognized as an expert on thepharmaceutical industry. His first book, Drug Truths: Dispellingthe Myths About Pharma R&D, was critically acclaimed forclearing up misconceptions about the pharmaceutical industry andproviding an honest account of the contributions of pharmaceuticalresearch and development to human health and well-being. As he toured the country discussing Drug Truths, Dr.LaMattina regularly came across people who were filled with anger,accusing the pharmaceutical industry of making up diseases, hidingdangerous side effects, and more. This book was written in responseto that experience, critically examining public perceptions andindustry realities. Starting with "4 Secrets that Drug Companies Don't Want You toKnow," Devalued and Distrusted provides a fact-based accountof how the pharmaceutical industry works and the challenges itfaces. It addresses such critical issues as: Why pharmaceutical R&D productivity has declined Where pharmaceutical companies need to invest theirresources What can be done to solve core health challenges, includingcancer, diabetes, and neurodegenerative diseases How the pharmaceutical industry can regain public trust andresuscitate its image Our understanding of human health and disease grows daily;however, converting science into medicine is increasinglychallenging. Reading Devalued and Distrusted, you'll notonly gain a greater appreciation of those challenges, but also therole that the pharmaceutical industry currently plays and can playin solving those challenges. Get to know the author: Read an interview with JohnLaMattina or watch a video on ChemistryViews!
ahref="http://www.chemistryviews.org/details/ezine/4286441/John_LaMattina_30_Years_in_Pharma.html"Interview: JohnLaMattina: 30 Years in Pharma/a
ahref="http://www.chemistryviews.org/details/video/4498851/Can_the_Pharmaceutical_Industry_Restore_its_Broken_Im

age.html"Video: Canthe Pharmaceutical Industry Restory its Broken Image?/a

Grand Challenges in Pharmaceutical Medicine: Competencies and Ethics in Medicines Development

Frontiers Media SA

Pharmaceutical Regulatory Environment

Challenges and Opportunities in the Gulf Region

Springer This book compares national and centralised procedure practices and key performance metrics, including current approval times, review practices and pharmacovigilance standards, in the seven Gulf States. Opportunities for an improved regulatory system are identified, which, if fully implemented, could have a significant impact on patients' access to new medicines. The Persian Gulf represents the next growth market for the global biopharmaceutical industry but to date there has been limited information about the regulatory review processes employed in these countries. A thorough examination of the strategies currently being implemented by the Gulf States is considered critical to the future regulatory environment in this region. Pharmaceutical Regulatory Environment: Challenges & Opportunities in the Gulf Region is a must read for those interested in pharmaceutical regulation in the Gulf region.

Social and Administrative Aspects of Pharmacy in Low- and Middle-Income Countries

Present Challenges and Future Solutions

Academic Press Social and Administrative Aspects of Pharmacy in Low- and Middle-Income Countries: Present Challenges and Future Solutions examines the particularities of low- and middle-income countries and offers solutions based on their needs, culture and available resources. Drawing from the firsthand experience of researchers and practitioners working in these countries, this book addresses the socio-behavioral aspects of pharmacy and health, pharmacoeconomics, pharmaceutical policy, supply management and marketing, pharmacoepidemiology and public health pharmacy specific to low- and middle-income countries. While some practices may be applied appropriately in disparate places, too often pharmacy practice in low- and middle-income countries is directly copied from successes in developed countries, despite the unique needs and challenges low- and middle-income countries face. Examines key issues and challenges of pharmacy practice and the pharmaceutical sector specific to low- and middle-income countries Compares pharmacy practice in developed and developing countries to highlight the unique challenges and opportunities of each Provides a blueprint for the future of pharmacy in low- and middle-income countries, including patient-centered care, evidence-based care and promoting the role of the pharmacist for primary health care in these settings

Global Clinical Trials

Effective Implementation and Management

Academic Press This book will explore the great opportunities and challenges which exist in conducting clinical trials in developing countries. By exploring the various regulations specific to the major players and providing insight into the logistical challenges including language barriers, this book provides a working tool for clinical researchers and administrators to navigate the intricacies of clinical trials in developing countries. Important topics such as ethical issues will be handled very carefully to highlight the significant differences of conducting this work in various jurisdictions. Overall, it will present a clear and comprehensive guide to the ins-and-outs of clinical trials in various countries to assist in design, development, and effectiveness of these trials. Contributors include high-profile,

respected figures who have paved the way for clinical trials in developing countries Provides hands-on tools for regulatory and legal requirements and qualification, design, management, and reporting Case studies outline successes, failures, lessons learned and prospects for future collaboration Includes country-specific guidelines for the most utilized countries Foreword by David Feigel, former Head of CDRH at FDA

Developing Solid Oral Dosage Forms

Pharmaceutical Theory and Practice

Academic Press Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms. It covers essential principles of physical pharmacy, biopharmaceutics and industrial pharmacy as well as various aspects of state-of-the-art techniques and approaches in pharmaceutical sciences and technologies along with examples and/or case studies in product development. The objective of this book is to offer updated (or current) knowledge and skills required for rational oral product design and development. The specific goals are to provide readers with: Basics of modern theories of physical pharmacy, biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms Tools and approaches of preformulation investigation, formulation/process design, characterization and scale-up in pharmaceutical sciences and technologies New developments, challenges, trends, opportunities, intellectual property issues and regulations in solid product development The first book (ever) that provides comprehensive and in-depth coverage of what's required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market, including the most updated science and technologies, practice, applications, regulation, intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well-established authors/co-authors of diverse background, knowledge, skills and experience from industry, academia and regulatory agencies

Biopolymer-Based Nanomaterials in Drug Delivery and Biomedical Applications

Academic Press Biopolymer-Based Nanomaterials in Drug Delivery and Biomedical Applications presents a clear and detailed body of information on biopolymer chemistry and polymer sciences in drug delivery. The book covers the recently reported nanomaterials consisting of biopolymers such as polysaccharides (i.e., plant, animal, bacteria, algae and fungi-derived) and proteins in terms of their structures, synthetic protocols and characterizations. In addition, their applications as therapeutic drug and gene delivery carriers and in other biomedical fields are reviewed. This book compiles chapters contributed by internationally renowned scholars working in biopolymer-based nanomaterials, offering a wide vision on the new and ongoing potential of different biopolymeric nanomaterials. The information related to concepts, design protocols and applications of biopolymer-based nanoplatforms is presented here, with detailed chapters on Pectin based nanomaterials, Konjac glucomannan based nanomaterials, Guar gum-based nanomaterials, tailor-made gum Arabic based nanomaterials, among others. Such systems are widely being used as functional materials for drug delivery and other therapeutic applications. Provides a critical and detailed examination in the recent development of biopolymer-based nanomaterials Focuses on modified biopolymer-based, diverse cutting-edge techniques in drug delivery and biomedical applications Assesses the opportunities and challenges of biopolymer-based nano-carriers in pharmaceutical and biomedical fields

Pharmacogenomics

Challenges and Opportunities in Therapeutic

Implementation

Academic Press Pharmacogenomics: Challenges and Opportunities in Therapeutic Implementation, Second Edition, provides comprehensive coverage of the challenges and opportunities facing the therapeutic implications of pharmacogenomics from academic, regulatory, pharmaceutical, socio-ethical and economic perspectives. While emphasis is on the limitations in moving the science into drug development and direct therapeutic applications, this book also focuses on clinical areas with successful applications and important initiatives that have the ability to further advance the discipline. New chapters cover important topics such as pharmacogenomic data technologies, clinical testing strategies, cost-effectiveness, and pharmacogenomic education and practice guidelines. The importance of ethnicity is also discussed, which highlights phar,acogenomic diversity across Latin American populations. With chapters written by interdisciplinary experts and insights into the future direction of the field, this book is an indispensable resource for academic and industry scientists, graduate students and clinicians engaged in pharmacogenomics research and therapeutic implementation. Provides viewpoints that focus on the scientific and translational challenges and opportunities associated with advancing the field of pharmacogenomics Highlights progress in both the research and clinical areas of pharmacogenomics, as well as relevant implementation experience, challenges, and perspectives on direct-to-consumer genetic testing Includes, where applicable, discussion points, review questions, and cases for self-assessment purposes and to facilitate in-depth discussion

Inhaled Pharmaceutical Product Development Perspectives

Challenges and Opportunities

Elsevier Inhaled Pharmaceutical Product Development Perspectives: Challenges and Opportunities describes methods and procedures for consideration when developing inhaled pharmaceuticals, while commenting on product development strategies and their suitability to support regulatory submission. It bridges the gap between the

aspirations of scientists invested in new technology development and the requirements that must be met for any new product. The book brings together emerging analytical and inhalation technologies, providing perspectives that illuminate formulation and device design, development, regulatory compliance, and practice. Focusing on underlying scientific and technical principles known to be acceptable from the current regulatory perspective, this monograph will remain useful as a high-level guide to inhaled product development for the foreseeable future. Discusses development strategies and best practices in the context of regulatory requirements Written by a broadly qualified expert drawing on the knowledge and critical opinions of key individuals in the field Includes a foreword by Charles G. Thiel

Pharmacy Practice in Developing Countries

Achievements and Challenges

Academic Press Pharmacy Practice in Developing Countries: Achievements and Challenges offers a detailed review of the history and development of pharmacy practice in developing countries across Africa, Asia, and South America. Pharmacy practice varies substantially from country to country due to variations in needs and expectations, culture, challenges, policy, regulations, available resources, and other factors. This book focuses on each country’s strengths and achievements, as well as areas of weakness, barriers to improvement and challenges. It sets out to establish a baseline for best practices, taking all of these factors into account and offering solutions and opportunities for the future. This book is a valuable resource for academics, researchers, practicing pharmacists, policy makers, and students involved in pharmacy practice worldwide as it provides lessons learned on a global scale and seeks to advance the pharmacy profession. Uses the latest research and statistics to document the history and development of pharmacy practice in developing countries Describes current practice across various pharmacy sectors to supply a valuable comparative analysis across countries in Africa, Asia, Europe, and South America Highlights areas of achievement, strengths, uniqueness, and future opportunities to provide a basis for learning and improvement Establishes a baseline for best practices and solutions

Advances and Challenges in Pharmaceutical Technology

Materials, Process Development and Drug Delivery Strategies

Academic Press Advances and Challenges in Pharmaceutical Technology: Materials, Process Development and Drug Delivery Strategies examines recent advancements in pharmaceutical technology. The book discusses common formulation strategies, including the use of tools for statistical formulation optimization, Quality by design (QbD), process analytical technology, and the uses of various pharmaceutical biomaterials, including natural polymers, synthetic polymers, modified natural polymers, bioceramics, and other bioinorganics. In addition, the book covers rapid advancements in the field by providing a thorough understanding of pharmaceutical processes, formulation developments, explorations, and exploitation of various pharmaceutical biomaterials to formulate pharmaceutical dosage forms. Provides extensive information and analysis on recent advancements in the field of pharmaceutical technology Includes contributions from global leaders and experts in academia, industry and regulatory agencies Uses high quality illustrations, flow charts and tables to explain concepts and text to readers, along with practical examples and research case studies

Herbal Bioactive-Based Drug Delivery Systems

Challenges and Opportunities

Academic Press Herbal Bioactive-Based Drug Delivery Systems: Challenges and Opportunities provides a wide-ranging, in-depth resource for herbal bioactives, including detailed discussion of standardization and regulations. The book first explores specific drug delivery systems such as gastrointestinal, ocular, pulmonary, transdermal, and vaginal and rectal. It then discusses novel applications for nano, cosmetics, nutraceuticals, wound healing and cancer treatment.

Finally, there is a section focusing on standardization and regulation which includes an enhancement of properties. This book is an essential resource for pharmacologists, pharmaceutical scientists, material scientists, botanists, and all those interested in natural products and drug delivery systems developments. Explores standardization, regulation and enhancement issues in herbal bioactives Discusses novel developments, herbal cosmetics and toxicity/interaction issues Provides a comprehensive reference on all aspects of herbal bioactives

Pharmaceuticals in the Environment

Current Knowledge and Need Assessment to Reduce Presence and Impact

IWA Publishing Pharmaceuticals in the Environment: current knowle

Social Aspects of Drug Discovery, Development and Commercialization

Academic Press Social Aspects of Drug Discovery, Development and Commercialization provides an insightful analysis of the drug discovery and development landscape as it relates to society. This book examines the scientific, legal, philosophical, economic, political, ethical and cultural factors that contribute to drug development. The pharmaceutical industry is under scrutiny to develop safer and more effective drugs in a quicker and more affordable manner. Recent criticism and debates have emphasized varying opinions on the issues concerning the drug discovery and development process. This book provides thoughtful and valuable discussions and analysis of the social challenges and potential opportunities through all stages of the pharmaceutical process, from inception through marketing. With a unique focus on the social factors that increasingly play a role in how drug development is planned, structured, and executed throughout the drug product lifecycle, this is an essential resource for students, professors, and researchers who seek a better understanding of the interface between the pharmaceutical industry, health care systems, and society.

Organized in a sequence of interrelated theories and principles that provide the foundation for increased understanding of the relevant social aspects Includes analysis of important new advances, key scientific and strategic issues, and overviews of recent progress in drug development Provides a global perspective with examples from developed areas, such as the US, Japan, Canada and Europe, as well as faster-growing and emerging economies including Brazil, Russia, India, and China Serves as an essential resource for students, professors, and researchers who seek a better understanding of the interface between the pharmaceutical industry, health care systems, and society

Developments in Drugs and Pharmaceutical Technology

Proceedings of the Workshop, Hyderabad, India, November 6-10, 2001

Daya Books This Publication Deals With The Problems On The Development Of New Medicine And Herbal Formulations From Natural Products And Traditional Drugs, Technology Transfer In Bulk Drugs Manufacture Through Horizontal Or Vertical Mechanism Preferably Through Joint Venture Between The Companies In The Developing World, Quality Management, R&D On Tropical Diseases, Bio-Evaluation Of Drug Molecules (In Vitro And In Vivo), Provision And Implications Of Trips For Drugs, Manufacturing Facilities And Standards And Modern Methods Of Screening Of Natural Products For Developing New Bioactives. Status Of The Development Of Drugs And Pharmaceutical In Some Of The Developing Countries, Viz., Bangladesh, Egypt, India, Iraq, Indonesia, Malaysia, Mauritius, Nepal, Syria And Zambia Is Also Included In The Publication. Contents Part I: Global Drugs And Pharmaceutical Sector: Situation Analysis Chapter 1: Strategy For Discovering New Therapeutics In Developing Countries By Professor R Kumar; Chapter 2: Drugs And Pharmaceutical Sector In Nam Countries: Implications Of Wto And Trips By Dr (Mrs) Veena Jha; Chapter 3: Current And Emerging Horizons In Global Drugs And Pharmaceutical Sector By Dr (Mrs) Rama Mukherjee. Part Ii: Discovery, Design And Development Of Investigative New Drugs (Inds) Current Trends Chapter 4: Founder S Day Lecture: New Drug Development: An Indian Success Story By Dr Venkateswerlu. Part Iii: Medicinal Plants And Traditional Drugs New Precursors For Inds Chapter 5: Potential Of Medicinal Plants As A Source For New Drugs Development By Dr Tuley De Silva; Chapter 6: Modern Techniques Of Screening Natural Products For Drug Discovery By Dr Mark Butler; Chapter 7:

Lead Optimisation For Inds Hiv Protease Inhibitors: From Peptidomimetics To Cyclic Urease By Dr Javed Iqbal. Part Iv: Tools Of Automation For Rational Drug Discovery Chapter 8: Structure-Activity Studies Through Computer Aided Modelling By Dr A K Saxena; Chapter 9: Parallel Synthesis And Combinatorial Libraries By Dr S Raghavan; Chapter 10: Rapid Screening Of Combinatorial Libraries By Dr C Sesagiri Rao. Part V: Process Technologies For Bulk Drugs: Recent Trends And Innovations (Status Of Bulk Drug Processing) Chapter 11: Chemistry Of Important Unit Processes In The Manufacture Of Bulk Drugs And Intermediates By Dr A V Rama Rao; Chapter 12: Clean Process Options: Technological Challenges By Dr A A Khan. Part Vi: Smes In Bulk Drug Sector: Technological Upgradation For Global Competitiveness Chapter 13: Cluster Servicing Approach For Technology Transfer To Smes: An Indian Case Study By Dr K V Raghavan & Dr M Hari Babu; Chapter 14: Proactive Government Policies For Sustainable Growth Under A Competitive Regime By Dr Zafrullah Chowdhury. Part Vii: Quality Management In Drugs And Pharmaceutical Sector (Advance In Instrumental Methods For Bulk Drug Characterisation) Chapter 15: New Drug Development: Pharmacological Screening And Preclinical Toxicity By Dr P V Diwan; Chapter 16: Clinical Evaluation Non-Invasive Clinical Pharmacodynamic Methods In Evaluation Of Drug Effects By Dr Naidu; Chapter 17: Regulatory Aspects Of Drugs And Pharmaceuticals: Trends And Challenges By Dr M Venkateswarlu. Part Viii: Fingerprinting Of Herbal Drugs Chapter 18: Fingerprinting Of Pharmacopoeia For Herbal Drugs By Dr I Sanjeeva Rao; Chapter 19: Good Manufacturing Practices In Drug Industry By Dr P S Ramanathan; Chapter 20: Drug Master Files By Dr R Nageswara Rao. Part Ix: Country Status Report Chapter 21: Egypt: Current Standing Of Drugs And Pharmaceuticals Industry; Chapter 22: India: Drugs And Pharmaceutical: A Macro View; Chapter 23: Inodnesia: Developing Pharmaceuticals Suitable For Indonesian Pharmaceutical Industries; Chapter 24: Iraq: Status Of The Development Of Drugs And Pharmaceuticals Including R&D; Chapter 25: Malaysia: Research And Development In Herbal Medicine Towards Commercialisation Of Herbal Preparation/Drug And The Herbal Medicine Industry; Chapter 26: Mauritius: Drugs And Pharmaceutical Industry; Chapter 27: Nepal: Current Status Of Drugs And Pharmaceutical Industry; Chapter 28: Syria: A National Report On The Current Status Of Drugs And Pharmaceuticals Industry; Chapter 29: Zambia: Country Status Report.

A Handbook of Artificial Intelligence in Drug Delivery

Academic Press A Handbook of Artificial Intelligence in Drug Delivery explores the use of Artificial Intelligence (AI) in drug delivery strategies. The book covers pharmaceutical AI and drug discovery challenges, Artificial Intelligence tools for drug research, AI enabled intelligent drug delivery systems and next generation novel therapeutics, broad utility of

AI for designing novel micro/nanosystems for drug delivery, AI driven personalized medicine and Gene therapy, 3D Organ printing and tissue engineering, Advanced nanosystems based on AI principles (nanorobots, nanomachines), opportunities and challenges using artificial intelligence in ADME/Tox in drug development, commercialization and regulatory perspectives, ethics in AI, and more. This book will be useful to academic and industrial researchers interested in drug delivery, chemical biology, computational chemistry, medicinal chemistry and bioinformatics. The massive time and costs investments in drug research and development necessitate application of more innovative techniques and smart strategies.

Guidelines for Off-Label Drugs : Concept and Good Clinical Practice

Ph. Malik Qasem Ozaybi This edition of the book encompasses the off label(unapproved) indications and uses of 191 drugs with last update also comparison with FDA approved indications. Also give you Information about research and how to make an excellent research with discussion and compare between primary studies and secondary studies with advantages and disadvantages. In this book we will talk about the concept of strength of Recommendations and strength of Evidence with age Group to make decisions on the use of certain drugs that have off label with beautiful color for the figures and tables. This is really an interesting book for medical professionals with last update 2021. “Off-Label “ means the Medication is being used in manner not specified in the , FDA’s approved packaging label or insert. Some medications used as off-label only .Fast review for most medical terminology used and TDM for specific drugs with their Therapeutic Range. This book show you in details about resources as website and application. Policies and administration for off label with their form used in Hospitals and PHC. Drugs index and kay considerations. We will discuss many topics that related to off-Label with their details including safety of use medicines with pregnant and categories of pregnancy . The only guidelines available for this type of medications according to its contents.

Special Topics in Drug Discovery

BoD – Books on Demand Drug discovery involves multiple disciplines, technologies, and approaches. This book selects important topics related to drug discovery, including emerging tool (Chapter 1), cutting-edge approaches (Chapters 2, 3, and 4), examples of specific therapeutic area (Chapter 5), quality control in drug development (Chapter 6), and job and career opportunities in the pharmaceutical sector, a topic rarely covered by other books (Chapter 7). This book draws knowledge from experts actively involved in different areas of drug discovery from both industrial and academic settings. We hope that this book will facilitate your efforts in drug discovery.

Pharmaceutical Policy in Countries with Developing Healthcare Systems

Springer A comprehensive and granular insight into the challenges of promoting rational medicine, this book serves as an essential resource for health policy makers and researchers interested in national medicines policies. Country-specific chapters have a common format, beginning with an overview of the health system and regulatory and policy environments, before discussing the difficulties in maintaining a medicines supply system, challenges in ensuring access to affordable medicines and issues impacting on rational medicine use. Numerous case studies are also used to highlight key issues and each chapter concludes with country-specific solutions to the issues raised. Written by highly regarded academics, the book includes countries in Africa, Asia, Europe, the Middle East and South America.

Transforming Clinical Research in the United States

Challenges and Opportunities: Workshop Summary

National Academies Press An ideal health care system relies on efficiently generating timely, accurate evidence to deliver on its promise of diminishing the divide between clinical practice and research. There are growing indications,

however, that the current health care system and the clinical research that guides medical decisions in the United States falls far short of this vision. The process of generating medical evidence through clinical trials in the United States is expensive and lengthy, includes a number of regulatory hurdles, and is based on a limited infrastructure. The link between clinical research and medical progress is also frequently misunderstood or unsupported by both patients and providers. The focus of clinical research changes as diseases emerge and new treatments create cures for old conditions. As diseases evolve, the ultimate goal remains to speed new and improved medical treatments to patients throughout the world. To keep pace with rapidly changing health care demands, clinical research resources need to be organized and on hand to address the numerous health care questions that continually emerge. Improving the overall capacity of the clinical research enterprise will depend on ensuring that there is an adequate infrastructure in place to support the investigators who conduct research, the patients with real diseases who volunteer to participate in experimental research, and the institutions that organize and carry out the trials. To address these issues and better understand the current state of clinical research in the United States, the Institute of Medicine's (IOM) Forum on Drug Discovery, Development, and Translation held a 2-day workshop entitled Transforming Clinical Research in the United States. The workshop, summarized in this volume, laid the foundation for a broader initiative of the Forum addressing different aspects of clinical research. Future Forum plans include further examining regulatory, administrative, and structural barriers to the effective conduct of clinical research; developing a vision for a stable, continuously funded clinical research infrastructure in the United States; and considering strategies and collaborative activities to facilitate more robust public engagement in the clinical research enterprise.

Bad Pharma

How Drug Companies Mislead Doctors and Harm Patients

Macmillan Argues that doctors are deliberately misinformed by profit-seeking pharmaceutical companies that casually withhold information about drug efficacy and side effects, explaining the process of pharmaceutical data manipulation and its global consequences. By the best-selling author of Bad Science.

Health Professions Education

A Bridge to Quality

National Academies Press The Institute of Medicine study Crossing the Quality Chasm (2001) recommended that an interdisciplinary summit be held to further reform of health professions education in order to enhance quality and patient safety. Health Professions Education: A Bridge to Quality is the follow up to that summit, held in June 2002, where 150 participants across disciplines and occupations developed ideas about how to integrate a core set of competencies into health professions education. These core competencies include patient-centered care, interdisciplinary teams, evidence-based practice, quality improvement, and informatics. This book recommends a mix of approaches to health education improvement, including those related to oversight processes, the training environment, research, public reporting, and leadership. Educators, administrators, and health professionals can use this book to help achieve an approach to education that better prepares clinicians to meet both the needs of patients and the requirements of a changing health care system.

Drug Repurposing

Hypothesis, Molecular Aspects and Therapeutic Applications

BoD – Books on Demand Drug repurposing or drug repositioning is a new approach to presenting new indications for common commercial and clinically approved existing drugs. For example, chloroquine, an old antimalarial drug, showed promising results for treating COVID-19, interfering with MDR in several types of cancer, and chemosensitizing human leukemic cells.This book focuses on the hypothesis, risk/benefits, and economic impacts of drug repurposing on drug discovery in dermatology, infectious diseases, neurological disorders, cancer, and orphan diseases. It brings

together up-to-date research to provide readers with an informative, illustrative, and easy-to-read book useful for students, clinicians, and the pharmaceutical industry.

Pharmacy Practice in Developing Countries

Achievements and Challenges

Academic Press Pharmacy Practice in Developing Countries: Achievements and Challenges offers a detailed review of the history and development of pharmacy practice in developing countries across Africa, Asia, and South America. Pharmacy practice varies substantially from country to country due to variations in needs and expectations, culture, challenges, policy, regulations, available resources, and other factors. This book focuses on each country's strengths and achievements, as well as areas of weakness, barriers to improvement and challenges. It sets out to establish a baseline for best practices, taking all of these factors into account and offering solutions and opportunities for the future. This book is a valuable resource for academics, researchers, practicing pharmacists, policy makers, and students involved in pharmacy practice worldwide as it provides lessons learned on a global scale and seeks to advance the pharmacy profession. Uses the latest research and statistics to document the history and development of pharmacy practice in developing countries Describes current practice across various pharmacy sectors to supply a valuable comparative analysis across countries in Africa, Asia, Europe, and South America Highlights areas of achievement, strengths, uniqueness, and future opportunities to provide a basis for learning and improvement Establishes a baseline for best practices and solutions

Pharmaceutical Photostability and Stabilization Technology

CRC Press Based on a training course developed by Dr. Joseph T. Piechocki and other experts in this field whose contributions appear in this book for two International Meetings on the Photostability of Drugs and Drug Products, this text clarifies the guidelines set by the International Conference on Harmonization (ICH) and provides a comprehensive

background in the scientific principles involved in photostability testing. Presenting the advantages and disadvantages of various procedures so the reader can select and utilize the most appropriate technique best-suited to their needs, this source includes references to current literature in the field and offers an opinion on future opportunities and challenges.

Pharma and Profits

Balancing Innovation, Medicine, and Drug Prices

John Wiley & Sons High-level commentary on various facets of the pharmaceutical industry from a key leader in the field This book clearly explains the value that the pharmaceutical industry offers to society which is often underreported against the more negative topic of high drug prices. It also offers an overview for drug discovery and development professionals, highlighting the challenges that such drug hunters should be aware of when developing new drugs. Case studies to illustrate topics like hepatitis C, mRNA vaccines, insulin, and price controls are included to aid in seamless reader comprehension. Written by John LaMattina, former president of Pfizer Global Research and Development and well-known speaker and writer for the pharma industry, sample topics covered and questions explored within the work include: Fiscal consequences of curing hepatitis C mRNA vaccines and the race for a cure Why the government does not deserve a piece of Biopharma's profits Paying for drugs whose ultimate value is unknown The impact of reduced revenues on R&D This book is a must-read for biopharmaceutical professionals and executives who wish to gain high-level insight into key challenges that must be first understood, then overcome, within the pharmaceutical industry.

Biotechnology and Development

Challenges and Opportunities for Asia

Academic Foundation Biotechnology Is At The Heart Of Technology Revolution In Asia Today With Immense Potential In The Pharmaceutical And Agriculture Sectors. This Study Covers Economic And Policy Issues And The Experiences In Biotechnology In Japan, India, Malaysia, The Phillipines, Korea, Bangladesh, Thailand, China And Singapore And Also The International Cooperative Strategies Of Asean And In Europe. This Book Is A Valuable Resource For Governments, Multilateral Institutions, Academics And Practitioners In The Field Of Economic Development And Technology Policy Management.

Pharmaceutical Photostability and Stabilization Technology

CRC Press Based on a training course developed by Dr. Joseph T. Piechocki and other experts in this field whose contributions appear in this book for two International Meetings on the Photostability of Drugs and Drug Products, this text clarifies the guidelines set by the International Conference on Harmonization (ICH) and provides a comprehensive background

Biopharmaceuticals

Challenges and Opportunities

CRC Press Biopharmaceuticals: Challenges and Opportunities This book highlights how the traditional microbial process technology has been upgraded for the production of biologic drugs how manufacturing processes have evolved to meet the global market demand with quality products under the guidelines of internally recognized regulatory bodies. It also carries information on how, armed with a deeper understanding of life-threatening diseases, biopharmaceutical companies and the life sciences industry have developed formal and informal partnerships with

researchers in institutes, universities, and other R&D organizations to fulfil timely, quality production with perfect safety and security. One of the most interesting aspects of this book is the conceptual development of personalized medicine (or precision medicine) to provide the right treatment to the right patient, at the right dose at an earlier stage of development, for genetic diseases. Besides this, it also highlights the most challenging aspects of modern biopharmaceutical science, focusing on the hot topics such as design and development of biologic drugs; the use of diversified groups of host cells belonging to animals, plants, microbes, insects, and mammals; stem cell therapy and gene therapy; supply chain management of biopharmaceuticals; and the future scope of biopharmaceutical industry development. This book is the latest resource for a wide circle of scientists, students, and researchers involved in understanding and implementing the knowledge of biopharmaceuticals to develop life-saving biologic drugs and to bring awareness to the development of personalized treatment that can potentially offer patients a faster diagnosis, fewer side effects, and better outcomes. Features: Explains how the traditional cell culture methodology has been changed to a fully continuous or partially continuous process Explains how to design and fabricate living organs of body by 3D bioprinting technology Focuses on how a biopharmaceutical company deals with various problems of regulatory bodies and develops innovative biologic drugs Narrates in detail the updated information on stem cell therapy and gene therapy Explains the development strategies and clinical significance of biosimilars and biobetters Highlights the supply chain management of biopharmaceuticals

Pharmaceuticals in Marine and Coastal Environments

Occurrence, Effects, and Challenges in a Changing World

Elsevier Pharmaceuticals in Marine and Coastal Environments: Occurrence, Effects, and Challenges in a Changing World is divided into three sections that address a) coastal areas as the main entrance of pharmaceuticals into the ocean, b) the occurrence and distribution of pharmaceuticals in the environmental compartments of the ocean media, and c) the effects that such pollutants may cause to the exposed marine organisms. With its comprehensive discussions, the book provides a wide depiction of the current state-of-the-art on these topics in an effort to open new sources of investigation and find suitable solutions. Includes maps edited by the Water Information Network System of the International Hydrological Program (IHP-WINS) Provides a compilation of information regarding the occurrence and

distribution of pharmaceuticals in the marine environment which will help establish new and more efficient monitoring programs and new research lines Depicts the most important results of environmental risk assessments that can be used as a first step for further toxicological studies

Surfactants in Biopharmaceutical Development

Academic Press Surfactants in Biopharmaceutical Development addresses the progress, challenges and opportunities for surfactant research specific to pharmaceutical development, providing a broad range of important surfactant-related topics as they relate directly to the biopharmaceutical process. Chapters address fundamental topics, like mechanisms of protein stabilization by surfactants, the latest, state-of-the-art technology and methods to illustrate the practical application to biopharmaceutical development, forward-looking chapters on control strategies and novel surfactants, with a special focus on current regulatory aspects of paramount importance for biopharmaceutical companies and regulators. It has been widely recognized that surfactants provide protection to therapeutic proteins against interfacial stresses. Despite the fact that the very mechanism of protein stabilization by surfactants has not been completely understood, surfactants are universally regarded as critical functional excipients by the industry and by regulators. Describes the current state of research on surfactants, drawing upon contributions from international experts across industry and academia Addresses the opportunities and challenges associated with surfactants in drug development and delivery Provides a defining resource for practitioners in the biopharmaceutical industry, regulators and academics Summarizes the latest knowledge of surfactants in biopharmaceutical development in one comprehensive volume

INNOVATION, ECONOMIC DEVELOPMENT, AND INTELLECTUAL PROPERTY IN INDIA AND

Springer Nature This open access book analyses intellectual property and innovation governance in the development of six key industries in India and China. These industries are reflective of the innovation and economic development of the two economies, or of vital importance to them: the IT Industry, the film industry, the pharmaceutical industry, plant varieties and food security, the automobile industry, and the sharing economy. The analysis extends beyond the

domain of IP law, and includes economics and policy analysis. The overarching concerns of the book are how the examined industries have developed in the two countries, what role state innovation policy and/or IP policy has played in such development, what the nature of the state innovation policy/IP policy is, whether such policy has been causal, facilitating, crippling, co-relational, or simply irrelevant, and whether there is a possibility of synergy between the two economies. The book also inquires as to why and how one specific industry has developed in one country and not in the other, and what India and China can learn from each other. The book provides a real-life understanding of how IP laws interact with innovation and economic development in the six selected economic sectors in China and India. The reader can also draw lessons from the success or failure of these sectors. --

Aquaculture and By-Products: Challenges and Opportunities in the Use of Alternative Protein Sources and Bioactive Compounds

Academic Press Aquaculture and By-products: Challenges and Opportunities, Volume 92 in the Advances in Food and Nutrition Research series, explores the potential use of aquaculture and by-products as sources of proteins and bioactive compounds. Alternative extraction techniques to obtain, isolate and purify proteins and bioactive from aquaculture and by-products are thoroughly discussed. Chapters in this new volume include Alternative extraction techniques to obtain, isolate and purify proteins and bioactive from aquaculture and by-products, Development of new food and pharmaceutical products: Nutraceuticals and food additives, Evaluation of the protein and bioactive compound bioaccessibility/bioavailability and citotoxicity of the extracts obtained from aquaculture and by-products, and more. Details alternative extraction techniques to obtain, isolate and purify proteins and bioactive from aquaculture and by-products Evaluates the protein and bioactive compound bioaccessibility/bioavailability and citotoxicity of the extracts Updates on progress in the development of new food and pharmaceutical products, such as nutraceuticals and food additives

YOU CAN Be a Medical Representative

Notion Press The Indian Pharmaceutical industry has been witnessing phenomenal growth in recent years, driven by the rising consumption levels in the country and strong demand from export markets. Today, India is among the top five pharmaceutical emerging markets in the world. Pharmaceutical selling requires a great deal of technical knowledge. There are different levels and designations in each company. But the medical representative plays the important role and need specific skills to generate the prescription. You can be a medical representative is a guide to the medical representatives and those who want to start their career as a successful medical representative. This will help them sharpen their understanding about their roles and can improve their technical knowledge such as: How to approach a doctor? • Communication skills of a Medical Representative • Objection handling techniques • How to close a call effectively? • Basic scientific knowledge • Interview etiquette The author uses his own expertise and success to engage the reader. Pick up a book today!

Pharmaceutical Design And Development

A Molecular Biology Approach

CRC Press This volume aims to introduce researchers in pharmaceutical and allied industries to the concepts and latest developments in the application of biotechnology recombinant DNA and monoclonal antibodies to drug development.

Pharmaceutical Industry and Public Policy in Post-reform India

Routledge This book examines the impact of economic reforms in India on the pharmaceutical industry and access to medicines. It traces the changing production and trade pattern of the industry, research and development (R&D) preferences and strategies of Indian pharmaceutical firms, patent system alongside pricing policy measures and their

shortcomings. It also analyses the public health financing system in India driven largely by out-of-pocket expenditure — about 60 per cent — and characterised by very high share of medicines in total health expenditure. A masterful insight into a topical area, the work will be indispensable to those working on pharmaceutical industry and public policy. It will be of interest to researchers, scholars, students, and policy-makers of economics, industrial policy, public policy, intellectual property rights and health financing.

Global Issues in Pharmaceutical Marketing

Routledge Global Issues in Pharmaceutical Marketing presents a balanced, research-based perspective combined with a practical outlook on the current issues faced by the ethical, biotech, and generic segments of the pharmaceutical industry. It integrates an analytical approach with a global view to examine such issues as market access, digital marketing, emerging markets, branding, and more. The book covers not only the North American and Western European markets, but focuses on non-Western markets, such as Latin America and Asia. Each chapter is written as an individual essay about a given issue, and where relevant, original cases are provided to illustrate how these issues are currently managed by the global industry. This book offers a thoughtful and thorough description of the industry's current situation and integrates the latest scholarly and industry research from different disciplines in one place for convenient reference. It may be used in the following ways: To stimulate class discussions and inspire new streams of research for academics and graduate students; To introduce the industry to those interested in a career, to orient new industry hires, or to provide experienced practitioners with current research that will enhance their knowledge; To provide an understanding of the industry for those in the healthcare sector, such as physicians, pharmacists, as well as medical and pharmacy students; and To present recent and relevant research for those in government, public or private payers, and public policy environments to facilitate their decision making. This book will prove to be a useful resource and an important source of information for academics and their students, professionals, and policymakers around the world.

Rare Diseases in the Age of Health 2.0

Springer Science & Business Media This text focuses on various factors associated with orphan diseases and the influence and role of health information technologies. Orphan diseases have not been adopted by the pharmaceutical

industry because they provide little financial incentive to treat or prevent it. It is estimated that 6,000-7,000 orphan diseases exist today; as medical knowledge continues to expand, this number is likely to become much greater. The book highlights the opportunities and challenges in this increasingly important area. The book explores new avenues which are opened by information technologies and Health 2.0, and highlights also economic opportunities of orphan disease medicine. The editors of this new book have international experience and competencies in the key areas of patient empowerment, healthcare and clinical knowledge management, healthcare inequalities and disparities, rare diseases and patient advocacy.

Collaborative Innovation in Drug Discovery

Strategies for Public and Private Partnerships

John Wiley & Sons Can academia save the pharmaceutical industry? The pharmaceutical industry is at a crossroads. The urgent needfor novel therapies cannot stem the skyrocketing costs andplummeting productivity plaguing R&D, and many key products arefacing patent expiration. Dr. Rathnam Chaguturu presents a case forcollaboration between the pharmaceutical industry and academia thatcould reverse the industry's decline. CollaborativeInnovation in Drug Discovery: Strategies for Public and PrivatePartnerships provides insight into the potential synergyof basing R&D in academia while leaving drug companies to turnhits into marketable products. As Founder and CEO ofiDDPartners, focused on pharmaceutical innovation, Foundingpresident of the International Chemical Biology Society, and SeniorDirector-Discovery Sciences, SRI International, Dr. Chaguturu hasassembled a panel of experts from around the world to weigh in onissues that affect the two driving forces in medicaladvancement. Gain global perspectives on the benefits and potential issuessurrounding collaborative innovation Discover how industries can come together to prevent another"Pharma Cliff" Learn how nonprofits are becoming the driving force behindinnovation Read case studies of specific academia-pharma partnerships forreal-life examples of successful collaboration Explore government initiatives that help foster cooperationbetween industry and academia Dr. Chaguturu’s thirty-five years of experience inacademia and industry, managing new lead discovery projects andforging collaborative partnerships with academia, diseasefoundations, nonprofits, and government agencies lend him aninformative perspective into the issues facing pharmaceuticalprogress. In Collaborative Innovation in Drug Discovery:Strategies for Public and Private Partnerships,

he and hisexpert team provide insight into the various nuances of thedebate.