

BIO SIMILARS AND INTERCHANGEABLE BIOLOGICS

Strategic Elements



Sarfraz K. Niazi



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Online Biosimilar Interchangeable Biologics Strategic Elements

Paul Cornes, Ali McBride



Online Biosimilar Interchangeable Biologics Strategic Elements:

Biosimilars and Interchangeable Biologics Sarfaraz K. Niazi, 2025-12-08 This new edition explores the strategic planning side of biosimilar drugs and targets the issues surrounding biosimilars that are linked to legal matters This includes an examination of new regulatory requirements in terms of principal patents and intellectual property regulatory pathways and concerns about affordability on a global scale *Biosimilars and Interchangeable Biologics Strategic Elements* Second edition examines the science technology finance legality ethics and politics of biosimilar drugs The book presents a global strategy on how to build take to market and manage the next generation of biosimilars throughout their life cycle Updated throughout the book covers strategic planning elements that include an overall understanding of the history and the current status of the science and art of biosimilars As the perception of biosimilars has changed over the last several years the author provides detailed descriptions of the new legal regulatory and commercial characteristics that must be considered He also addresses the utilization of biosimilars and related biological drugs in expanding world markets and reviews new strategies and tactics to enable users to create a universal dossier Finally there is also an examination of newer technologies that will help reduce the capital costs of manufacturing and bringing biosimilars to market The book is intended for pharmaceutical scientists engineers in biotechnology regulatory specialists analytical chemists and quality assurance specialists in biopharmaceuticals

Biosimilars and Interchangeable Biologics Sarfaraz K. Niazi, 2018-10-30 What s the Deal with Biosimilars Biosimilars are gaining momentum as new protein therapeutic candidates that can help fill a vital need in the healthcare industry The biological drugs are produced by recombinant DNA technology that allows for large scale production and an overall reduction time in costs and development Part of a two volume set that covers varying aspects of biosimilars *Biosimilars and Interchangeable Biologics Strategic Elements* explores the strategic planning side of biosimilar drugs and targets issues surrounding biosimilars that are linked to legal matters This includes principal patents and intellectual property regulatory pathways and concerns about affordability on a global scale It addresses the complexity of biosimilar products and it discusses the utilization of biosimilars and related biological drugs in expanding world markets Of specific interest to practitioners researchers and scientists in the biopharmaceutical industry this volume examines the science technology finance legality ethics and politics of biosimilar drugs It considers strategic planning elements that include an overall understanding of the history and the current status of the art and science of biosimilars and it provides detailed descriptions of the legal regulatory and commercial characteristics The book also presents a global strategy on how to build take to market and manage the next generation of biosimilars throughout their life cycle [Biosimilars and Interchangeable Biologics](#) Sarfaraz K. Niazi, 2016-01-05 What s the Deal with Biosimilars Biosimilars are gaining momentum as new protein therapeutic candidates that can help fill a vital need in the healthcare industry The biological drugs are produced by recombinant DNA technology that allows for large scale production and an overall reduction time in costs and development

Part of a two volume set th **Biosimilar and Interchangeable Biologics** Sarfaraz K. Niazi,2016-02-15 The field of biosimilar drugs is one of the hottest subjects in the filed of new drug development with scores of companies offering seminar and training programs for prospective manufacturers and stakeholders This book is a modern comprehensive overview of the entire biosimilar manufacturing and distribution process covering concepts introduced by the FDA litigation strategies analytical methods pharmacokinetic studies and the future and current status of biosimilar product approvals **Biologics and Biosimilars** Xiaodong Feng,Hong-Guang Xie,Ashim Malhotra,Catherine F. Yang,2022-06-13 Biologics and Biosimilars Drug Discovery and Clinical Applications is a systematic integration and evaluation of all aspects of biologics and biosimilars encompassing research and development clinical use global regulation and more Biosimilars are biological therapeutic agents designed to imitate a reference biologic with high similarities in structure efficacy and safety but also with potential clinical effective and cost efficient options for the manufacturers payers clinicians and patients Most of the top selling prescription drugs in the current market are biologics which have revolutionized the treatment strategies and modalities for life threatening and or rare diseases This book outlines the key processes and challenges in drug development regulations and clinical applications of biologics biosimilars and even interchangeable biosimilars Global experts in the field discuss essential categories and prototype drugs of biologics and biosimilars in clinical practice such as allergenics blood and blood components cell treatment gene therapy recombinant therapeutic proteins or peptides tissues and vaccines Additional features Integrates the latest bench and bedside evidence of drug development and regulations of biologics and biosimilars Contains key study questions for each chapter to guide the readers as well as drug charts for all therapeutic applications of biologics and biosimilars Presents detailed schematic illustrations to explain the drug development clinical trials regulations and clinical applications of biologics and biosimilars This book is an invaluable tool for health care professional students providers and pharmaceutical and health care industries as well as the public providing readers with educational updates about the drug development and clinical affairs of biological medications and their similar drugs **Fast Facts: Biosimilars in Hematology and Oncology** Paul Cornes,Ali McBride,2020-01-23 Biologics have revolutionized and are revolutionizing the treatment of many serious disorders The evidence acquired from more than 10 years of clinical experience with more than 50 biosimilar drugs and more than 700 million patient days exposure in Europe shows that approved biosimilars can be used as safely and effectively as originator biologics Yet concerns persist about biosimilars particularly in curative cancer treatment where they are relatively recent therapeutic options Fast Facts Biosimilars in Hematology and Oncology provides a concise overview of emerging global practice in this fast moving area together with practical information on adding biosimilars to a formulary and switching patients Contents Biologics and the need for biosimilars Why do we need biosimilars How is the quality of biosimilar medicines assured Legal issues Switching interchangeability and extrapolation Safety and pharmacovigilant Global issues Formulary considerations pharmacy issues Formulary considerations supportive care

biosimilars Formulary considerations therapeutic anti cancer biosimilars Communication and awareness **Biosimilar Drug Product Development** Laszlo Endrenyi, Dr. Paul Declerck, Shein-Chung Chow, 2017-02-24 When a biological drug patent expires alternative biosimilar products are developed The development of biosimilar products is complicated and involves numerous considerations and steps The assessment of biosimilarity and interchangeability is also complicated and difficult Biosimilar Drug Product Development presents current issues for the development of biosimilars and gives detailed reviews of its various stages and contributing factors as well as relevant regulatory pathways and pre and post approval issues **Biosimilars** Hiten J. Gutka, Harry Yang, Shefali Kakar, 2018-12-13 This book provides a comprehensive overview of the biosimilar regulatory framework the development process and clinical aspects for development of biosimilars The development path of a biosimilar is just as unique as a development path of a new drug tailored by the mechanism of action the quality of the molecule published information on the reference product the current competitive environment the target market and regulatory guidance and most importantly the emerging totality of evidence for the proposed biosimilar during development For the ease of readers the book comprises of six sections as follows Section I Business Health Economics and Intellectual Property Landscape for Biosimilars Section II Regulatory Aspects of Development and Approval for Biosimilars Section III Biopharmaceutical Development and Manufacturing of Biosimilars Section IV Analytical Similarity Considerations for Biosimilars Section V Clinical aspects of Biosimilar Development Section VI Biosimilars Global Development and Clinical Experience Chapters have been written by one or more experts from academia industry or regulatory agencies who have been involved with one or more aspects of biosimilar product development The authors and editors have an expertise in commercialization and pricing of biosimilars intellectual property considerations for biosimilars chemistry manufacturing controls CMC and analytical development for biosimilars regulatory and clinical aspects of biosimilar development Besides the industry practitioners the book includes several contributions from regulators across the globe Biologics, Biosimilars, and Biobetters Iqbal Ramzan, 2020-12-31 A comprehensive primer and reference this book provides pharmacists and health practitioners the relevant science and policy concepts behind biologics biosimilars and biobetters from a practical and clinical perspective Explains what pharmacists need to discuss the equivalence efficacy safety and risks of biosimilars with physicians health practitioners and patients about Guides regulators on pragmatic approaches to dealing with these drugs in the context of rapidly evolving scientific and clinical evidence Balances scientific information on complex drugs with practical information such as a checklist for pharmacists *Biosimilars* Jean-Louis Prugnaud, Jean-Hugues Trouvin, 2012-11-27 Biologics have revolutionised the treatment of many severe conditions delivering exceptional clinical results but also producing exceptionally high prices As patents expire copies and price competition are expected throughout the world However due to the intrinsic heterogeneity and molecular complexity of biologic medicinal products their copies cannot simply be authorized under the generic rule valid for small chemical entities In response a dedicated regulation was issued in

the European Union It is based on the concept of biological medicinal products similar to a biological reference product or biosimilars This book analyses the context of biotechnological production and addresses the European legal framework for biosimilar market approval It highlights post market authorisation issues such as Risk Management Plans and substitution of products and outlines some other issues such as cost management and international nomenclature This book is primarily intended for hospital based physicians and pharmacists It will also be a valuable resource for all actors from all countries who want to better understand the emergence of these new medicinal products within the European context

Biosimilars Development Strategies Sarfaraz K. Niazi,2024-07-31 After 18 years since the first biosimilar was approved a lot has changed from the regulatory guidelines to the stakeholder perceptions about the safety and efficacy of biosimilars However the development costs remain high preventing faster entry into markets with more than 200 choices Analyzing the regulatory filings of all approved biosimilars in the US and EU a deep analysis of the scientific principles and continuous challenges to the regulatory authorities have made it possible to plan the development on a fast track This book teaches how to cut the current time and cost by more than 70% based on the author s hands on experience Features Describes the emergence of biosimilars since the first publication of the recombinant engineering patent as well as a listing of all approved recombinant products their patent expiry and their adoption across the globe Provides a better understanding of the safety and efficacy of approved biosimilars Global approval requires accommodating guidelines and detailed planning to avoid redundancy as well as high costs The basic expectations of the agencies are presented here Presents a detailed analysis of all EU and FDA approved products with a comparative analysis Renowned author and entrepreneur in the field of drug discovery and production

Biosimilars Shein-Chung Chow,2013-07-29 As many biological products face losing their patents in the next decade the pharmaceutical industry needs an abbreviated regulatory pathway for approval of biosimilar drug products which are cost effective follow on subsequent versions of the innovator s biologic products But scientific challenges remain due to the complexity of both the manufacturing process and the structures of biosimilar products Written by a top biostatistics researcher Biosimilars Design and Analysis of Follow on Biologics is the first book entirely devoted to the statistical design and analysis of biosimilarity and interchangeability of biosimilar products It includes comparability tests of important quality attributes at critical stages of the manufacturing processes of biologic products Connecting the pharmaceutical biotechnology industry government regulatory agencies and academia this state of the art book focuses on the scientific factors and practical issues related to the design and analysis of biosimilar studies It covers most of the statistical questions encountered in various study designs at different stages of research and development of biological products

Fast Facts: Biosimilars Paul Cornes,David J. Bennett,2018-04-09 Biosimilars have been in clinical use for more than 10 years and evidence from more than 700 million patient days exposure shows that approved biosimilars can be used as safely and effectively as their originator biologics And yet concerns about these drugs persist particularly in therapy areas where they

are recent additions to the formulary It is vital to address these concerns so that clinicians can prescribe biosimilars with confidence realizing substantial cost savings and improving patient access to effective treatments Fast Facts Biosimilars provides a comprehensive yet concise explanation of biosimilars what they are how they are regulated and how they are used in clinical practice It is ideal for healthcare professionals and decision makers who want to understand biosimilars and the key concerns and controversies around these valuable products Contents 1 An introduction to biologics and biosimilars 2 Why do we need biosimilars 3 How is the quality of biosimilars assured 4 How is the efficacy and safety of biosimilars ensured 5 What has been the experience with biosimilars to date 6 The future of biosimilar medicines 7 How do I use biosimilar medicines

Nonclinical Development of Novel Biologics, Biosimilars, Vaccines and Specialty Biologics Lisa M. Plitnick, Danuta Herzyk, 2013-06-27 Nonclinical Development of Novel Biologics Biosimilars Vaccines and Specialty Biologics is a complete reference devoted to the nonclinical safety assessment of novel biopharmaceuticals biosimilars vaccines cell and gene therapies and blood products This book compares and contrasts these types of biologics with one another and with small molecule drugs while incorporating the most current and essential international regulatory documents Each section discusses a different type of biologic as well as early characterization strategies principles of study design preclinical pharmacokinetics and pharmacodynamics and preclinical assays An edited book that is authored by leading experts in the field this comprehensive reference provides critical insights to all researchers involved in early through late stage biologics Provides in depth coverage of the process of nonclinical safety assessment and comprehensive reviews of each type of biopharmaceutical Contains the most pertinent international regulatory guidance documents for nonclinical evaluation Covers early de risking strategies and designs of safety assessment programs for novel biopharmaceuticals and vaccines as well as follow on biologics or biosimilars A multi authored book with chapters written by qualified experts in their respective fields

Biosimilars and Biologics Steven Lucio, 2018 To meet the growing need for information ASHP has published Biosimilars and Biologics This authoritative evidence based resource provides an in depth perspective on all areas related to these innovative drugs

Fast Facts: Biosimilars Guy Regnard, 2024-09-25 Biologic medicines have revolutionized the treatment of many serious disorders Biosimilars offer similar safety and efficacy at a fraction of the cost though while they have led to significant savings uptake varies globally due to concerns and regulatory inconsistencies especially in middle income countries where the need for affordable drugs is greatest Fast Facts Biosimilars A Global Perspective has taken a specifically global perspective with expert contributors invited to represent a range of medical specialties including endocrinology hematology oncology and immunology and regions of the world It addresses the following concerns drawing on the most up to date information in this fast moving area of medicine Is the quality of the biosimilar medicine equivalent to that of the original drug Is the biosimilar medicine safe Which indications can the biosimilar medicine be used for What are the realistic economic benefits How do I switch a patient from a biologic to an equivalent biosimilar medicine How do I select

biologics in a region with regulatory uncertainty over biosimilars How do I explain biosimilars to patients Methodologies in Biosimilar Product Development Sang Joon Lee, Shein-Chung Chow, 2021-09-30 Methodologies for Biosimilar Product Development covers the practical and challenging issues that are commonly encountered during the development review and approval of a proposed biosimilar product These practical and challenging issues include but are not limited to the mix up use of interval hypotheses testing i e the use of TOST and confidence interval approach a risk benefit assessment for non inferiority similarity margin PK PD bridging studies with multiple references the detection of possible reference product change over time design and analysis of biosimilar switching studies the assessment of sensitivity index for assessment of extrapolation across indications without collecting data from those indications not under study and the feasibility and validation of non medical switch post approval Key Features Reviews withdrawn draft guidance on analytical similarity assessment Evaluates various methods for analytical similarity evaluation based on FDA s current guidelines Provides a general approach for the use of n of 1 trial design for assessment of interchangeability Discusses the feasibility and validity of the non medical switch studies Provides innovative thinking for detection of possible reference product change over time This book embraces innovative thinking of design and analysis for biosimilar studies which are required for review and approval of biosimilar regulatory submissions **Biologics and Biosimilars** Congressional Research Service, 2017-11-13 A biological product or biologic is a preparation such as a drug or a vaccine that is made from living organisms Compared with conventional chemical drugs biologics are relatively large and complex molecules They may be composed of proteins and or their constituent amino acids carbohydrates such as sugars nucleic acids such as DNA or combinations of these substances Biologics may also be cells or tissues used in transplantation A biosimilar sometimes referred to as a follow on biologic is a therapeutic drug that is similar but not structurally identical to the brand name biologic made by a pharmaceutical or biotechnology company In contrast a generic chemical drug is an exact copy of a brand name chemical drug Because biologics are more complex than chemical drugs both in composition and method of manufacture biosimilars will not be exact replicas of the brand name product but may instead be shown to be highly similar The Food and Drug Administration FDA regulates both biologics and chemical drugs Biologics and biosimilars frequently require special handling such as refrigeration and processing to avoid contamination by microbes or other unwanted substances Also they are usually administered to patients via injection or infused directly into the bloodstream For these reasons biologics often are referred to as specialty drugs which can be very costly In April 2006 the European Medicines Agency EMA authorized for marketing in Europe the first biosimilar product Omnitrope a human growth hormone Today a total of 35 biosimilars are EMA authorized for the European market The introduction of biosimilars in Europe has reduced prices for biologics by up to 33% For one drug in Portugal the price reduction was 61% In contrast the pathway to marketing biosimilars in the United States has had several barriers FDA approved Omnitrope in June 2006 following an April 2006 court ruling requiring the FDA to

move forward with consideration of the application At the time the FDA indicated that this action does not establish a pathway for approval of other follow on biologic drugs and stated that Congress must change the law before the agency can approve copies of nearly all other such products In March 2010 Congress established a new regulatory authority for FDA by creating an abbreviated licensure pathway for biological products demonstrated to be highly similar biosimilar to or interchangeable with an FDA licensed biological product The new authority was accomplished via the Biologics Price Competition and Innovation Act BPCIA of 2009 enacted as Title VII of the Affordable Care Act Congress authorized FDA to collect associated fees via the Biosimilar User Fee Act of 2012 BsUFA The five year biosimilars user fee authority was set to expire on September 30 2017 Congress reauthorized the biosimilar user fee program via the Food and Drug Administration Reauthorization Act of 2017 As more biosimilars enter the U S market analysts expect to see U S price reductions similar to those that have occurred in Europe However of the seven biosimilars approved by FDA sales of five biosimilars have been delayed or allegedly adversely impacted by actions of the brand name manufacturers including patent infringement lawsuits and suits over alleged anticompetitive contracts with insurers in order to prevent coverage of biosimilars that are less expensive substituted for best selling biologics The high costs of pharmaceuticals in general and biologics in particular has led to an increased interest in understanding the federal government s role in the development of costly new therapeutics In the case of six of the seven biosimilars approved by FDA the associated brand name drug was originally discovered by scientists at public sector research institutions

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