

# PROTEIN & PEPTIDE DELIVERY

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# Protein Formulation And Delivery

**G Psacharopoulos**



## **Protein Formulation And Delivery:**

**Protein Formulation and Delivery** Eugene J. McNally, Eugene McNally, Jayne E. Hastedt, 2007-10-26 This title is intended to assist pharmaceutical scientists in the development of stable protein formulations during the early stages of the product development process providing a comprehensive review of mechanisms and causes of protein instability in formulation development coverage of accelerated stability testing methods and relevant analytical **Therapeutic Protein and Peptide Formulation and Delivery** Zahra Shahrokh, 1997 This volume reviews protein stability and the analytical and biophysical characterization of proteins It emphasizes drug delivery approaches especially local delivery through the skin Including both academic and industrial perspectives from such companies as Genentech Amgen and Merck the book also discusses novel drug delivery polymers and the development of pharmaceutical protein formulations Formulation and Delivery of Proteins and Peptides Jeffrey L. Cleland, Robert S. Langer, 1994 Presents an updated review of the recent research in formulation and delivery of proteins and peptides Examines measurement and characterization of degradation products formed during storage degradation mechanisms and model systems designed to predict formulation stability Discusses stabilization of proteins and peptides through lyophilization and focuses on the use of FTIR as a tool for understanding the role of excipients during lyophilization Describes potential new routes and methods of delivery such as depot systems based on biodegradable polymers and aerosol systems for pulmonary delivery *Therapeutic Peptides and Proteins* Ajay K. Banga, 1997-07-01 From the Preface At the time of this writing the American biotechnology and pharmaceutical industry has more than two dozen biotechnology derived therapeutic proteins on the market while several hundred are in various stages of human clinical trials or at the FDA for review Today more than a thousand companies are involved in biotechnology research with a total revenue of 7.7 billion for 1993 Therapeutic peptides and proteins are expected to mitigate suffering in coming years as anticancer agents hormones growth factors analgesics anti hypertensives and thrombolytics among others However the clinical application of these therapeutic peptides and proteins is limited by several problems such as lack of physical and chemical stability or the lack of desirable attributes for adequate absorption or distribution Thus as these therapeutic peptides and proteins are made available it will be essential to formulate these drugs into safe stable and efficacious delivery systems The pharmaceutical scientist involved in this effort needs to call upon the knowledge of several disciplines such as pharmaceuticals medicinal chemistry biochemistry and microbiology and needs to keep abreast with the latest research in the published literature This book presents these principles in a simple interesting and practically useful manner for the benefit of scientists working in this area and to further research in this area This book will also provide useful information for students and academic researchers and add to their interest in this area The book should also be useful in a hospital setting to understand potential physicochemical stability problems that may result during reconstitution or administration of the new recombinant proteins Since this field is relatively new and rapidly evolving efforts were made to

include very recent literature in the book As a result over 40% of the literature citations in the book are for the work published in the last two years

**Biodrug Delivery Systems** Mariko Morishita, Kinam Park, 2016-04-19 Biodrug Delivery Systems Fundamentals Applications and Clinical Development presents the work of an international group of leading experts in drug development and biopharmaceutical science who discuss the latest advances in biodrug delivery systems and associated techniques The book discusses components of successful formulation delivery and p

*Therapeutic Peptides and Proteins* Ajay K. Banga, 2005-09-14 Upon publication of the first edition of Therapeutic Peptides and Proteins ten years ago there were only 19 biotechnology medicines on the market Currently there are more than 100 with at least 400 more in various stages of development That alone would be grounds for a new edition Add to that the fact that it is still difficult to find up

**Formulation and Delivery of Proteins and Peptides**, 1994

**Excipient Development for Pharmaceutical, Biotechnology, and Drug Delivery Systems** Ashok Katdare, Mahesh Chaubal, 2006-07-28 To facilitate the development of novel drug delivery systems and biotechnology oriented drugs the need for new yet to be developed and approved excipients continues to increase Excipient Development for Pharmaceutical Biotechnology and Drug Delivery Systems serves as a comprehensive source to improve understanding of excipients and forge potential new avenues for regulatory approval This book presents detailed up to date information on various aspects of excipient development testing and technological considerations for their use It addresses specific details such as historical perspective preclinical testing safety and toxicology evaluation as well as regulatory quality and utility aspects The text also describes best practices for use of various functional excipients and extensive literature references for all topics

**Therapeutic Peptides and Proteins** Ajay K. Banga, 2015-04-23 There are more than 500 biopharmaceuticals on the market including more than 200 therapeutic proteins making biologics the fastest growing sector in the biopharmaceutical market These products include more than 40 monoclonal antibodies for indications ranging from treatment or mitigation of various types of cancer to rheumatoid arthritis

The c

**Novel Therapeutics from Modern Biotechnology** Dale L. Oxender, Leonard E. Post, 2013-06-29 A cover story of Business Week Magazine in January 1984 stated Biotech Comes of Age In February 1986 Venture Magazine had a cover article entitled The Biotech Revolution is Here This article went on to say New Genetic Technologies Will Transform Our Lives These announcements were made many years after the first biotechnology companies such as Genentech Cetus Amgen and Biogen were formed to commercialize the New Biology At the time of writing this book there are over 1300 biotech companies developing new technologies or identifying potential biotech drugs Most of these companies were started in the height of the high technology hype although companies are still forming as the technology advances A more recent survey showed only a relatively small number of Food and Drug Administration FDA approvals among over several hundred biotechnology products now in clinical trial One could ask why it has taken so long to produce biotechnology products Part of the reason is that each new class of biotech products brings with it a set of problems that need to be solved before they enter

clinical trials These problems are often unique to biotechnology products such as peptides proteins monoclonal antibodies nucleic acids and cellular therapies

**Pharmaceutical Dosage Forms and Drug Delivery** Ram I. Mahato,Ajit S. Narang,Virender Kumar,2024-11-22 Completely revised and updated this fourth edition elucidates the principles of pharmaceutics biopharmaceutics dosage form design and drug delivery including emerging new biotechnology based treatment modalities The authors integrate aspects of physical pharmacy chemistry biology and biopharmaceutics into drug delivery With the expiration of older patents and generic competition the biopharmaceutical industry is evolving faster than ever Consequently this edition of the book emphasizes the heightened focus that the recent remarkable progress in gene editing immunotherapy and nanotechnology has brought to the design of new drugs and diagnostic approaches along with novel dosage forms Apart from new chapters this edition highlights the emerging emphasis on the role of artificial intelligence AI in drug discovery mRNA and antibody based therapies genome editing immunotherapy chemical kinetics and the stability of drug products Features Includes new chapters on antibody therapeutics gene editing and immunotherapy Explains newer approaches and future methods and the significance of artificial intelligence AI in drug discovery Updated sections on pharmacy mathematics chemical kinetics and the stability of medicinal products Important updates on parenteral drug products protein and peptide treatments and biotechnology based pharmaceuticals to provide a contemporary perspective on drug development delivery and pharmaceutical sciences Expansion of review questions and answers to clarify concepts for students and add to their grasp of key concepts covered in this book Although there are numerous books on pharmaceutics and dosage forms most cover different areas of the discipline and do not provide an integrated approach The integrated approach of this book not only provides a singular perspective of the overall field but also supplies a unified source of information for students instructors and professionals saving their time and money

Monoclonal Antibodies Steven Shire,2015-04-24 Monoclonal antibodies MAbs are currently the major class of protein bio therapeutic being developed by biotechnology and pharmaceutical companies Monoclonal Antibodies discusses the challenges and issues revolving around development of a monoclonal antibody produced by recombinant DNA technology into a therapeutic agent This book covers downstream processing which includes design of processes to manufacture the formulation formulation design fill and finish into closure systems and routes of administration The characterization of the final drug product is covered where the use of biophysical methods combined with genetic engineering is used to understand the solution properties of the formulation The latter has become very important since many indications such as arthritis and asthma require the development of formulations for subcutaneous delivery SC The development of formulations for IV delivery is also important and comes with a different set of challenges The challenges and strategies that can overcome these limitations are discussed in this book starting with an introduction to these issues followed by chapters detailing strategies to deal with them Subsequent chapters explore the processing and storage of mAbs development of delivery device technologies and

conclude with a chapter on the future of mAbs in therapeutic remedies Discusses the challenges to develop MAb for intravenous IV and subcutaneous delivery SC Presents strategies to meet the challenges in development of MABs for SC and IV administration Discusses the use of biophysical analytical tools coupled with MAb engineering to understand what governs MAB properties at high concentration      **Peptide and Protein Delivery** Chris Van Der Walle,2011-05-12 The growing area of peptide and protein therapeutics research is of paramount importance to medical application and advancement A needed reference for entry level researchers and researchers working in interdisciplinary collaborative projects Peptide and Protein Delivery addresses the current and emerging routes for delivery of therapeutics Covering cerebral delivery pulmonary delivery transdermal delivery intestinal delivery ocular delivery parenteral delivery and nasal delivery this resource offers an overview of the main routes in therapeutics Researchers across biochemistry pharmaceutical molecular biology cell biology immunology chemistry and biotechnology fields will find this publication invaluable for peptide and protein laboratory research Discusses the most recent data ideas and concepts Presents case studies and an industrial perspective Details information from the molecular level to bioprocessing Thought provoking for the novice to the specialist Timely for today s biopharmaceuticals market      **Challenges in Delivery of Therapeutic Genomics and Proteomics** Aliasgar

Shahiwalla,Naazneen Surti,2025-03-06 Challenges in Delivery of Therapeutic Genomics and Proteomics Second Edition is a complete reference on the biological principles involved in gene and protein delivery to cells and tissues Highlighting the various chemical physical and biological approaches to protein and gene delivery the book provides guidelines for pharmaceutical researchers in academia and corporate R D This new edition brings updates on the delivery of therapeutic proteomics and genomics in each chapter and newly developed chapters on the regulatory aspects of related products CRISPR Cas9 gene editing and computational tools in genomics and proteomics After an overview of the barriers to genomics and proteomics delivery the book dives into physical chemical and biological methods of gene delivery Further chapters extensively discuss the delivery of proteins and therapeutic peptides through the respiratory oral parenteral transdermal topical uterine and rectal pathways This book is the ideal reference for pharmaceutical scientists dealing with gene and protein peptide delivery Regulators and corporate researchers can also benefit from the wide coverage of delivery methods presented Includes genomics and proteomics delivery in one single volume Highlights what s currently known and where further research is necessary Covers topics from academic and corporate R D perspectives Includes new chapters on regulation CRISPR Cas9 and computational tools      Challenges in Delivery of Therapeutic Genomics and Proteomics

Ambikanandan Misra,2010-09-09 Delivery of therapeutic proteomics and genomics represent an important area of drug delivery research Genomics and proteomics approaches could be used to direct drug development processes by unearthing pathways involved in disease pathogenesis where intervention may be most successful This book describes the basics of genomics and proteomics and highlights the various chemical physical and biological approaches to protein and gene

delivery Covers a diverse array of topics from basic sciences to therapeutic applications of proteomics and genomics delivery Of interest to researchers in both academia and industry Highlights what s currently known and where further research is needed     **Stability and Characterization of Protein and Peptide Drugs** Rodney Pearlman,Y. John Wang,2013-06-29

This is the first volume to make available specific case histories of therapeutic proteins and peptides that have been marketed or are currently under clinical testing The editors have selected a wide range of molecules derived from monoclonal antibodies recombinant DNA and natural and chemical sources to provide formulation scientists with practical examples of the development of pharmaceutical products     **Formulation and Delivery of Protein Drugs** Hai Yan

Gao,1996     **Journal of Nanoscience and Nanotechnology** ,2006     **Encyclopedia of Pharmaceutical Technology**

James Swarbrick,James C. Boylan,2000-12-05 The Encyclopedia of Pharmaceutical Technology presents authoritative and contemporary articles on all aspects of drug development dosage forms manufacturing and regulation enabling the specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field A dependable reference tool and a solid investment for years to come maintaining currency through its supplements Volume 18 Supplement 1

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Drugs decomposition metabolism pharmaceutical incompatibilities pharmacokinetics physicochemical properties

preformulation stability Drug Delivery Systems and Devices Development and Manufacture analysis and controls

bioavailability use of computerization formulation and processing alternatives national and international registration

packaging patents process validation scale up safety and efficacy stability standards Post Production and Practical

Considerations governmental industrial professional organizations legal aspects national and international agencies patent

life of drugs patient compliance and much much more     **Aulton's Pharmaceutics** Michael E. Aulton,Kevin Taylor,2013

Pharmaceutics is the art of pharmaceutical preparations It encompasses design of drugs their manufacture and the

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