Biacore T100 Manual

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Peptide Antibodies
Springer Science & Business Media
The last two decades have seen a phenomenal growth of the field of genetic

or biochemical engineering and have witnessed the development and ultimately marketing of a variety of products-typically through the manipulation and growth of different types of microorganisms, followed by the recovery and purification of the associated products. The engineers and biotechnologists who are involved in the full-scale process design of such facilities must be familiar with the variety of unit operations and equipment and the applicable regulatory requirements. This book describes current commercial practice and will be useful to those engineers working in this field in the design, construction and operation of pharmaceutical and biotechnology plants. It will be of help to the chemical or pharmaceutical engineer who is developing a plant design and who faces issues such as: Should the process be batch or continuous or a combination of batch and continuous? How should the optimum process design be developed? Should one employ a new revolutionary separation which could be potentially difficult to validate

or use accepted technology which involves less risk? Should the process be run with ingredients formulated from water for injection, deionized water, or even filtered tap water? Should any of the separations be run in cold rooms or in glycol jacketed lines to minimize microbial growth where sterilization is not possible? Should the process equipment and lines be designed to be sterilized in-place, cleaned-in-place, or should every piece be broken down, cleaned and autoclaved after every turn?

RNA Spectroscopy Humana This volume explores detailed methods and experimental protocols evaluating the effect of a compound or a mixture of compounds on the action of enzymes that are significant targets in pharmaceuticals. Consisting of three sections, the book delves into recent biocomputing and bioinformatics protocols, state-of-the art modern biophysical, electrophoretic, and chromatographic methods and high-throughput screening approaches, as well as detailed protocols and examples of the inhibition analysis and evaluation of selected enzymes. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and

avoiding known pitfalls. Authoritative and cutting-edge, Targeting Enzymes for Pharmaceutical Development: Methods and Protocols serves as a vital reference for academics and industry professionals working on expanding our understanding of the wide range of important enzyme targets.

Handbook of Surface Plasmon Resonance Springer

This book provides practical information on a whole set of protein experiments for advanced structural biology, such as X-ray crystallography, NMR, electron microscopy, advanced mass spectroscopy, and surface plasmon resonance, as well as a wide variety of expression systems including eukaryotic and in vitro expression. In the past decade, structural genomics studies have pushed forward the development of automated methods in the field of structural biology, however there is an increasing need for the structural analysis of difficult targets, such as large protein complexes and membrane proteins, which are hard to achieve using conventional automated methods, and require knowledge that goes beyond standard protein chemistry protocols. To address these problems and to help researchers develop novel methods, this volume provides examples of the development of new protein investigation methods and their theoretical background. This book particularly appeals to graduate students, postdoctoral researchers, young investigators wishing to gain a better understanding of the theory behind experiments, and those seeking further advanced, practical structural biology methods.

Mathematical Modeling in Chemical Engineering

Frontiers E-books

High-throughputomics' projects such as genome sequencing, structural genomics and proteomics mean that there is no shortage of information on proteins. But the more information we have, the harder it is to make sense of it, to know where to start, and to identify the important results. This book is a clear, up to date and authoritative account of

Rice Handbook of Surface Plasmon Resonance

This extensive volume covers basic and advanced aspects of peptide antibody production, characterization and uses. Although peptide antibodies have been available for many years, they continue to be a field of active research and method development. For example, peptide antibodies which are dependent on specific posttranslational modifications are of great interest, such as phosphorylation, citrullination and others, while different forms of recombinant peptide antibodies are gaining interest, notably nanobodies, single chain antibodies, TCR-like antibodies, among others. Within this volume, those areas are covered, as well as several technical and scientific advances: solid phase peptide synthesis, peptide carrier conjugation and immunization, genomics, transcriptomics, proteomics and elucidation of the molecular basis of antigen presentation and recognition by dendritic cells, macrophages, B cells and T cells. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Comprehensive and authoritative, Peptide Antibodies: Methods and Protocols serves as an ideal reference for researchers exploring this vital and expansive

area of study.

Tip Enhancement Elsevier

This essential handbook guides investigators in the theory, applications, and practical use of affinity chromatography in a variety of fields including biotechnology, biochemistry, molecular biology, analytical chemistry, proteomics, pharmaceutical science, environmental analysis, and clinical chemistry. The Handbook of Affinity Chromatograph

Molecular Diagnosis of Infectious Diseases Springer Science & Business Media

Antibody–drug conjugates (ADCs) represent one of the most promising and exciting areas of anticancer drug discovery. Five ADCs are now approved in the US and EU [i.e., ado-trastuzumab emtansine (KadcylaTM), brentuximab vedotin (AdcetrisTM), inotuzumab ozogamicin (BesponsaTM), gemtuzumab ozogamicin (MylotargTM) and moxetumomab pasudotox-tdfk (Lumoxiti®)] and over 70 others are in various stages of clinical development, with impressive interim results being reported for many. The technology is based on the concept of delivering a cytotoxic payload selectively to cancer cells by attaching it to an antibody targeted to antigens on the cell surfaces. This approach has several advantages including the ability to select patients as likely responders based on the presence of antigen on the surface of their cancer cells and a wider therapeutic index, given that ADC targeting enables a more efficient delivery of cytotoxic agents to cancer cells than can be achieved by conventional chemotherapy, thus minimising systemic toxicity. Although there are many examples of antibodies that have been developed for this purpose, along with numerous linker technologies used to attach the cytotoxic agent to the antibody, there is presently a relatively small number of payload molecules in clinical use. The purpose of this book is to describe

the variety of payloads used to date, along with a discussion of their advantages and disadvantages and to provide information on novel payloads at the research stage that may be used clinically in the future.

BoD – Books on Demand

Although antiviral drugs have been successfully developed for some viral diseases, there remains a clear, unmet medical need to develop novel antiviral agents for the control and management of many viruses that currently have no or limited treatment options as well as a need to overcome the limitations associated with the existing antiviral drugs, such as adverse effects and emergence of drug-resistant mutations. The second edition of Antiviral Methods and Protocols features: All chapters are new and written by experts in the field, reflecting the major recent technical advances in antiviral research and discovery. This edition focuses on many important human viruses, such as human immunodeficiency virus type 1 (HIV-1), hepatitis viruses (hepatitis B and C viruses), herpes viruses, human respiratory syncytial virus (RSV), and influenza virus, while also featuring some important emerging viruses, such as dengue virus, West Nile virus, and chikungunya virus. As a volume in the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible

laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, Antiviral Methods and Protocols, Second Edition will serve as an excellent laboratory reference for pharmaceutical and academic biologists, medicinal chemists, and pharmacologists as well as for virologists in the field of antiviral research and drug discovery.

Antiviral Methods and Protocols Royal Society of Chemistry

Advances in Peptide and Peptidomimetic Design Inspiring Basic Science and Drug Discovery is a book dedicated to Prof. Victor J. Hruby on the occasion of his 80th birthday. This book includes twenty contributions from authors representing diverse multidisciplinary fields of scientific expertise, and is focused on the extraordinary potential of peptides and peptidomimetics as a surging therapeutic modality and as tools for basic research and technology development.

Handbook of Metalloproteins Royal Society of Chemistry

Intended for advanced readers, this is a review of all relevant techniques for structure analysis in one handy volume. As such, it provides the latest knowledge on spectroscopic and related techniques for chemical structure analysis, such as NMR, optical spectroscopy, mass spectrometry and X-ray crystallography, including the scope and limitation of each method. As a result, readers not only become acquainted with the techniques, but also the advantages of the synergy

between them. This enables them to choose the correct analytical method for each problem, saving both time and resources. Special emphasis is placed on NMR and its application to absolute configuration determination and the analysis of molecular interactions. Adopting a practical point of view, the author team from academia and industry guarantees both solid methodology and applications essential for structure determination, equipping experts as well as newcomers with the tools to solve any structural problem.

Label-Free Biosensor Methods in Drug Discovery Academic Press

A solid introduction, enabling the reader to successfully formulate, construct, simplify, evaluate and use mathematical models in chemical engineering.

Poliovirus Humana Press

Surface plasmon resonance (SPR) plays a dominant role in real-time interaction sensing of biomolecular binding events, this book provides a total system description including optics, fluidics and sensor surfaces for a wide researcher audience.

Flow Cytometry Humana Press

This volume describes the most common laboratory procedures for isolation, identification and characterization of polioviruses used in clinical and research laboratories. Written for the Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Poliovirus: Methods and Protocols aims to ensure successful results in the further

study of this vital field.

Handbook of Affinity Chromatography John Wiley & Sons

Surface plasmon resonance (SPR) plays a dominant role in real-time interaction sensing of biomolecular binding events. This book focuses on a total system description including optics, fluidics and sensor surfaces. It covers all commercial SPR systems in the market. It is the first of its kind and fills a gap in the technical literature as no other handbook on SPR is currently available. The final chapter discussed new trends and a vision is given for future developments and needs of the SPR market. This excellent handbook provides comprehensive information with easy to use, stand-alone chapters and will be of great use to anyone one working with or affiliated to the technology.

Genetic Engineering News John Wiley & Sons

This volume looks at the different spectroscopic and biophysical methods used by researchers to study the structure and folding of RNA, and to follow their interactions with proteins. The chapters in this book cover topics such as single-molecule spectroscopy of multiple RNA species; surface plasmon resonance, MS or microcalorimetry for investigating molecular interactions with RNA; FTIR, SAXS, SANS and SRCD spectroscopies to analyze RNA structure; use of fluorescent nucleotides to map RNA-binding sites on proteins surfaces or CryoEM; and much more. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, RNA

Spectroscopy: Methods and Protocols is a valuable resource for anyone interested in learning more about this developing field.

Handbook of Surface Plasmon Resonance

Humana

Since the introduction of recombinant human growth hormone and insulin a quarter century ago, protein therapeutics has greatly broadened the ho- zon of health care. Many patients suffering with life-threatening diseases or chronic dysfunctions, which were medically untreatable not long ago, can attest to the wonder these drugs have achieved. Although the ?rst generation of p- tein therapeutics was produced in recombinant Escherichia coli, most recent products use mammalian cells as production hosts. Not long after the ?rst p- duction of recombinant proteins in E. coli, it was realized that the complex tasks of most post-translational modi?cations on proteins could only be ef?ciently carried out in mammalian cells. In the 1990s, we witnessed a rapid expansion of mammalian-cell-derived protein therapeutics, chie?y antibodies. In fact, it has been nearly a decade since the market value of mammalian-cell-derived protein therapeutics surpassed that of those produced from E. coli. A common characteristic of recent antibody products is the relatively large dose required for effective therapy, demanding larger quantities for the treatment of a given disease. This, coupled with the broadening repertoire of protein drugs,

has rapidly expanded the quantity needed for clinical applications. The increasing demand for protein therapeutics has not been met exclusively by construction of new manufacturing plants and increasing total volume capacity. More - portantly the productivity of cell culture processes has been driven upward by an order of magnitude in the past decade. *Handbook of Immunoassay Technologies* CRC Press Membrane Proteins – Production and Function Characterization a volume of Methods in Enzymology, encompasses chapters from the leading experts in the area of membrane protein biology. The chapters provide a brief overview of the topics covered and also outline step-by-step protocol. Illustrations and case example images are included wherever appropriate to help the readers understand the schematics and general experimental outlines. Volume of Methods In Enzymology Contains a collection of a diverse array of topics in the area of membrane protein biology ranging from recombinant expression, isolation, functional characterization, biophysical studies and crystallization Label-Free Technologies For Drug Discovery Springer Science & Business Media Vital information for discovering and optimizing new drugs "Understanding the data and the experimental details that support it has always been at the heart of good science and the assumption challenging process that leads from good science to drug discovery. This book helps medicinal chemists and pharmacologists to do exactly that in the realm of

enzyme inhibitors." -Paul S. Anderson, PhD This publication provides readers with a thorough understanding of enzyme-inhibitor evaluation to assist them in their efforts to discover and optimize novel drug therapies. Key topics such as competitive, noncompetitive, and uncompetitive inhibition, slow binding, tight binding, and the use of Hill coefficients to study reaction stoichiometry are all presented. Examples of key concepts are presented with an emphasis on clinical relevance and practical applications. Targeted to medicinal chemists and pharmacologists,

Evaluation of Enzyme Inhibitors in Drug Discovery focuses on the questions that they need to address: * What opportunities for inhibitor interactions with enzyme targets arise from consideration of the catalytic reaction mechanism? * How are inhibitors evaluated for potency, selectivity, and mode of action? * What are the advantages and disadvantages of specific inhibition modalities with respect to efficacy in vivo? * What information do medicinal chemists and pharmacologists need from their biochemistry and enzymology colleagues to effectively pursue lead optimization? Beginning with a discussion of the advantages of enzymes as targets for drug discovery, the publication then explores the reaction mechanisms of enzyme catalysis and the types of interactions that can occur between enzymes and inhibitory molecules that lend themselves to therapeutic use. Next are discussions of mechanistic issues that must be considered when designing enzyme assays for compound library screening and for lead optimization efforts. Finally, the publication delves into

special forms of inhibition that are commonly encountered in drug discovery efforts, but can be easily overlooked or misinterpreted. This publication is designed to provide students with a solid foundation in enzymology and its role in drug discovery. Medicinal chemists and pharmacologists can refer to individual chapters as specific issues arise during the course of their ongoing drug discovery efforts.

Surface Plasmon Resonance Based Sensors John Wiley & Sons

Flow cytometry continually amazes scientists with its ever-expanding utility. Advances in flow cytometry have opened new directions in theoretical science, clinical diagnosis, and medical practice. The new edition of Flow Cytometry: First Principles provides a thorough update of this now classic text, reflecting innovations in the field while outlining the fundamental elements of instrumentation, sample preparation, and data analysis. Flow Cytometry: First Principles, Second Edition explains the basic principles of flow cytometry, surveying its primary scientific and clinical applications and highlighting state-of-the-art techniques at the frontiers of research. This edition contains extensive revisions of all chapters, including new discussions on fluorochrome and laser options for multicolor analysis, an additionalsection on apoptosis in the chapter on DNA, and new chapters onintracellular protein staining and cell sorting, including high-speed sorting and alternative sorting methods, as well as

traditional technology. This essential resource: Assumes no prior knowledge of flow cytometry Progresses with an informal, engaging lecture style from simpleto more complex concepts Offers a clear introduction to new vocabulary, principles of instrumentation, and strategies for data analysis Emphasizes the theory relevant to all flow cytometry, with examples from a variety of clinical and scientific fields Flow Cytometry: First Principles, Second Edition provides scientists, clinicians, technologists, and students with the knowledge necessary for beginning the practice of flow cytometry and for understanding related literature.

Tau oligomers Humana Press

A proven collection of readily reproducible techniques for studying amyloid proteins and their involvement in the etiology, pathogenesis, diagnosis, and therapy of amyloid diseases. The contributors provide methods for the preparation of amyloid and its precursors (oligomers and protofibrils), in vitro assays and analytical techniques for their study, and cell culture models and assays for the production of amyloid proteins. Additional chapters present readily reproducible techniques for amyloid extraction from tissue, its detection in vitro and in vivo, as well as nontransgenic methods for developing amyloid mouse models. The protocols follow the successful Methods in Molecular BiologyTM series format, each offering step-by-step laboratory instructions, an introduction outlining the principle behind the technique, lists of the necessary equipment

and reagents, and tips on troubleshooting and avoiding known pitfalls.