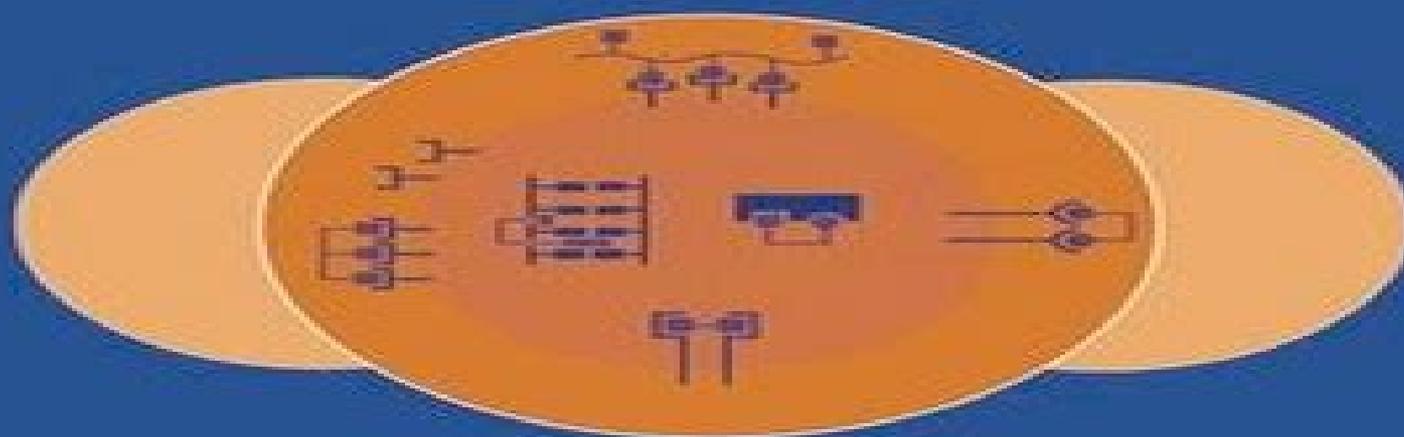


# Synthetic Multivalent Molecules

CONCEPTS AND BIOMEDICAL APPLICATIONS



SEOK-KI CHOI

# Synthetic Multivalent Molecules

**Karl Hale**



## **Synthetic Multivalent Molecules:**

*Synthetic Multivalent Molecules* Seok-Ki Choi,2004-08-13 This book provides basic principles of multivalent interactions found in biological systems as well as an up to date and thorough coverage in design concepts syntheses and biological activities of multivalent molecules Contains practical examples of synthetic multivalent molecules in chemistry biology and medicine Can be used as both a textbook for students and a reference book for libraries and professionals Includes detailed case studies Fills a void in current literature through its devotion solely to multivalent molecules

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**Dendrimer-Based Drug Delivery Systems** Yiyun Cheng,2012-05-23 The opportunities and challenges of using dendrimers to improve drug delivery Among pharmaceutical and biomedical researchers the use of dendrimers in drug delivery systems has attracted increasing interest In particular researchers have noted that the volume of a dendrimer increases when it has a positive charge If this property can be applied effectively dendrimers have enormous potential in drug delivery systems directly supplying medication to targeted human organs With contributions from an international team of pioneers and experts in dendrimer research this book provides a comprehensive overview of the latest research efforts in designing and optimizing dendrimer based drug delivery systems The book analyzes key issues demonstrating the critical connections that link fundamental concepts design synthesis analytical methodology and biological assessment to the practical use of dendrimers in drug delivery applications Topics covered include Dendrimer history Synthesis Physicochemical properties Principles of drug delivery Applications in diverse biomedical fields Dendrimer Based Drug Delivery Systems reflects the authors thorough review and analysis of the current literature as well as their own firsthand experience in the lab Readers will not only discover the current state of the science but also gain valuable insights into fruitful directions for future research References at the end of each chapter serve as a gateway to the growing body of literature in the field enabling readers to explore each individual topic in greater depth Pharmaceutical and biomedical researchers will find this book a unique and essential guide to the opportunities issues and challenges involved in fully exploiting the potential of dendrimers to improve drug delivery

**Synthesis and Biological Applications of Glycoconjugates** Olivier Renaudet,Nicolas Spinelli,2011 The interactions between carbohydrates and proteins have been extensively explored in a wide range of physiological and pathological processes over several decades The recent emergence of glycomics has strengthened this interest and notably contributed to

**Fragment-based Approaches in Drug Discovery** Wolfgang Jahnke,Daniel A. Erlanson,2006-12-13 This first systematic summary of the impact of fragment

based approaches on the drug development process provides essential information that was previously unavailable Adopting a practice oriented approach this represents a book by professionals for professionals tailor made for drug developers in the pharma and biotech sector who need to keep up to date on the latest technologies and strategies in pharmaceutical ligand design The book is clearly divided into three sections on ligand design spectroscopic techniques and screening and drug discovery backed by numerous case studies

**Bioactivity of Engineered Nanoparticles** Bing Yan,Hongyu Zhou,Jorge L. Gardea-Torresdey,2017-08-17 This book brings together reviews from international experts who are exploring the biological activities of nanomaterials for medical applications or to better understand nanotoxicity Topics include but are not limited to the following 1 mechanistic understanding of nanostructure bioactivity relationships 2 the regulation of nanoparticles bioactivity by means of chemical modification 3 the new methodologies and standard methods used to assess nanoparticles bioactivity 4 the mechanisms involved in nanoparticle biomolecule interactions and nanoparticle cell interactions and 5 biomedical applications of nanotechnology The book will be a valuable resource for a broad readership in various subfields of chemical science engineering biology environment and medicine

**Molecular Recognition and Polymers** Vincent Rotello,Sankaran Thayumanavan,2008-07-10 State of the art techniques for tapping the vast potential of polymers The use of specific non covalent interactions to control polymer structure and properties is a rapidly emerging field with applications in diverse disciplines Molecular Recognition and Polymers covers the fundamental aspects and applications of molecular recognition in the creation of novel polymeric materials for use in drug delivery sensors tissue engineering molecular imprinting and other areas This reference begins by explaining the fundamentals of supramolecular polymers it progresses to cover polymer formation and self assembly with a wide variety of examples and then includes discussions of biomolecular recognition using polymers With chapters contributed by the foremost experts in their fields this resource Provides an integrated resource for supramolecular chemistry polymer science and interfacial science Covers advanced state of the art techniques used in the design and characterization of non covalent interactions in polymers Illustrates how to tailor the properties of polymeric materials for various applications Stand alone chapters address specific applications independently for easy reference This is a premier resource for graduate students and researchers in polymer chemistry supramolecular chemistry materials science and physical organic chemistry

Handbook of Carbohydrate-Modifying Biocatalysts Peter Grunwald,2016-11-25 This book provides an actual overview of the structure function and application of carbohydrate modifying biocatalysts Carbohydrates have been disregarded for a long time by the scientific community mainly due to their complex structure Meanwhile the situation changed with increasing knowledge about the key role carbohydrates play in biological processes such as recognition signal transduction immune responses and others An outcome of research activities in glycoscience is the development of several new pharmaceuticals against serious diseases such as malaria cancer and various storage diseases Furthermore the employment of carbohydrate modifying biocatalysts enzymes as well as

microorganisms will contribute significantly to the development of environmentally friendly processes boosting a shift of the chemical industry from petroleum to bio based production of chemicals from renewable resources The updated content of the second edition of this book has been extended by discussing the current state of the art of using recombinantly expressed carbohydrate modifying biocatalysts and the synthesis of minicellulosomes in connection with consolidated bioprocessing of lignocellulosic material Furthermore a synthetic biology approach for using DAHP dependent aldolases to catalyze asymmetric aldol reactions is presented

**Uptake and Trafficking of Protein Toxins** Holger Barth,2017-12-01 This volume focuses on the transport of medically relevant bacterial protein toxins into mammalian cells and on novel pharmacological strategies to inhibit toxin uptake The first chapters review our current understanding of the cell surface receptors and cellular transport processes of Clostridium botulinum neurotoxins Clostridium botulinum C3 toxin Clostridium difficile toxins binary clostridial enterotoxins anthrax toxins and diphtheria toxin In brief specific binding transport B subunits deliver the enzyme A subunits into the cytosol where the latter modify their substrates producing cytotoxic effects and the characteristic toxin associated diseases Key mechanisms for the transport of the A subunits from endosomes into the cytosol and the role of trans membrane pores formed by the B subunits and host cell chaperones for this process are reviewed The book s closing chapters focus on compounds which inhibit the transport of the A subunits from endosomes into the cytosol and therefore might lead to novel therapeutic strategies for toxin associated diseases These substances include pharmacological inhibitors of the host cell chaperones involved as well as multivalent and heterocyclic molecules that specifically block the toxins translocation channels This volume offers an up to date resource for scientists

**Engineered Carbohydrate-Based Materials for Biomedical Applications** Ravin Narain,2011-03-01 This book addresses the need for a comprehensive book on the design synthesis and characterization of synthetic carbohydrate based polymeric materials along with their biological applications The first two chapters cover the synthesis and self assembly of glycopolymers and different techniques for creating these synthetic polymers Subsequent chapters account for the preparation of block copolymers branched glycopolymers glycosurfaces glycodendrimers cationic glycopolymers bioconjugates glyconanoparticles and hydrogels While these chapters comprehensively review the synthetic and characterization methods of those carbohydrate based materials their biological applications are discussed in detail

*Polymer Scaffolds for Protein Oligomerization* Byron R. Griffith,2003

**American Book Publishing Record** ,2003

**Multivalency** Jurriaan Huskens,Leonard J. Prins,Rainer Haag,Bart Jan Ravoo,2018-02-05 Connects fundamental knowledge of multivalent interactions with current practice and state of the art applications Multivalency is a widespread phenomenon with applications spanning supramolecular chemistry materials chemistry pharmaceutical chemistry and biochemistry This advanced textbook provides students and junior scientists with an excellent introduction to the fundamentals of multivalent interactions whilst expanding the knowledge of experienced researchers in the field

Multivalency Concepts Research

Applications is divided into three parts Part one provides background knowledge on various aspects of multivalency and cooperativity and presents practical methods for their study Fundamental aspects such as thermodynamics kinetics and the principle of effective molarity are described and characterisation methods experimental methodologies and data treatment methods are also discussed Parts two and three provide an overview of current systems in which multivalency plays an important role in chemistry and biology with a focus on the design rules underlying chemistry and the fundamental principles of multivalency The systems covered range from chemical materials based ones such as dendrimers and sensors to biological systems including cell recognition and protein binding Examples and case studies from biochemistry bioorganic chemistry as well as synthetic systems feature throughout the book Introduces students and young scientists to the field of multivalent interactions and assists experienced researchers utilising the methodologies in their work Features examples and case studies from biochemistry bioorganic chemistry as well as synthetic systems throughout the book Edited by leading experts in the field with contributions from established scientists Multivalency Concepts Research Applications is recommended for graduate students and junior scientists in supramolecular chemistry and related fields looking for an introduction to multivalent interactions It is also highly useful to experienced academics and scientists in industry working on research relating to multivalent and cooperative systems in supramolecular chemistry organic chemistry pharmaceutical chemistry chemical biology biochemistry materials science and nanotechnology

**Book Review Index**, 2006 Every 3rd issue is a quarterly cumulation

**Inorganic Nanomedicine: Synthesis, Characterization and Application** Amir Al-Ahmed, Arun M. Isloor, M. Nasiruzzaman Shaikh, 2013-04-24 Special topic volume with invited peer reviewed papers only

**The Chemical Synthesis of Natural Products** Karl Hale, 2000 As a chemist you may be called on to generate any number of products efficiently and quickly A well equipped shrewd chemist will be prepared to accomplish this goal under any circumstance The Chemical Synthesis of Natural Products helps you become this chemist the master of major recent developments who uses the progress of the past decade to their advantage Each of the chapters concentrates on the synthesis of a particular product complex carbohydrates cyclitols polyethers terpenes aromatic heterocycles carboaromatics cyclic peptides and others This product driven presentation from expert authors offers a practical introduction to the latest advanced methods The final section is an invaluable glossary for the synthetic chemist This list of terms concisely defines key reactions reagents and synthetic methods It includes oxidation and reduction the stereoselective creation of carbon carbon double bonds and strategies for joining together large molecules The glossary also describes useful methods for introducing asymmetric stereocenters by employing chiral auxiliaries and chiral reagents in a catalytic and stoichiometric manner With all of the accessible information it holds The Chemical Synthesis of Natural Products is an ideally structured introduction to the newest trends and major issues in the discipline Its sweeping overview concise glossary and accessible list of supplementary readings make an indispensable reference to which you will turn time and again

**The Glycoconjugates**

Martin I. Horowitz, William Ward Pigman, 1977 *The Impact of Protein Chemistry on the Biomedical Sciences* Alan N. Schechter, Ann Dean, Robert F. Goldberger, 1984 *The Impact of Protein Chemistry on the Biomedical Sciences* focuses on the structure function and synthesis of proteins This book examines the various approaches on how amino acids are polymerized in vitro which involves the physical chemical immunological enzymologic biosynthetic and organic synthetic techniques Comprised of five parts encompassing 27 chapters this book starts with an overview of Christian B Anfinsen s role in the development of protein chemistry and the training of scientists who have advanced their experiences in his laboratory to pioneer in the field of biologic **Immunological Diseases** Max Samter, 1971 Dissertation Abstracts International, 2008

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