



CHEMISTRY OF BIOCONJUGATES

SYNTHESIS, CHARACTERIZATION, AND BIOMEDICAL APPLICATIONS

Edited by

RAVIN NARAIN

WILEY

Chemistry Of Bioconjugates Synthesis Characterization And Biomedical Applications

SJ Ball



Chemistry Of Bioconjugates Synthesis Characterization And Biomedical Applications:

Chemistry of Bioconjugates Ravin Narain, 2013-12-02 Explores bioconjugate properties and applications of polymers dendrimers lipids nanoparticles and nanotubes Bioconjugation has enabled breakthroughs across many areas of industry and biomedicine With its emphasis on synthesis properties and applications this book enables readers to understand the connection between chemistry and the biological application of bioconjugated materials Its detailed descriptions of methods make it possible for researchers to fabricate and take full advantage of bioconjugates for a broad range of applications Moreover the book sets the foundation for the development of new applications including assays imaging biosensors drug delivery and diagnostics Chemistry of Bioconjugates features contributions from an international team of leading experts and pioneers in the field These contributions reflect the authors firsthand laboratory experience as well as a thorough review of the current literature The book s six sections examine General methods of bioconjugation Polymer bioconjugates Organic nanoparticle based bioconjugates Inorganic nanomaterial bioconjugates including metals and metal oxides Cell based hydrogel microgel and glyco bioconjugates Characterization physico bio chemical properties and applications of bioconjugates This comprehensive exploration of bioconjugates includes discussions of polymers dendrimers lipids nanoparticles and nanotubes References at the end of each chapter serve as a gateway to the most important original research findings and reviews in the field By drawing together and analyzing all the latest chemical methods and research findings on the physico chemical and biochemical properties of bioconjugates Chemistry of Bioconjugates sheds new light on the significance and potential of bioconjugation The book is recommended for organic and polymer chemists biochemists biomaterial scientists carbohydrate chemists biophysicists bioengineers and drug and gene delivery scientists

Chemistry of Bioconjugates Ravin Narain, 2014-02-07 **Synthesis of Pyrrol-based Bioconjugates** Mariette M. Pereira, Sara M.A. Pinto, Lucas D. Dias, 2024-06-26 In recent years the use of bioconjugation as strategy for development of more specific and directed drugs has been widely researched Tetrapyrrolic macrocycles are one of the most common families of organic compounds applied in medicinal chemistry specifically for diagnosis and therapy For optimization of their efficiency as therapeutic molecules it is relevant to promote their linking to biomolecules capable of targeting altered cells This work brings a new dimension to the literature by combining structural modification of biomolecules and polymers with pyrrole based compounds It will be of great interest to academicians industrialists and undergraduate and graduate students of chemistry biosciences and pharmacy since as apart from the theoretical aspects it discusses experimental components Features Discusses methods for protein modification Useful for academicians industrialists and undergraduate and graduated students of chemistry biosciences and pharmacy Explains the synthesis of pyrrole based molecules

Chemoselective and Bioorthogonal Ligation Reactions W. Russ Algar, Philip Dawson, Igor L. Medintz, 2017-06-19 This timely one stop reference is the first on an emerging and interdisciplinary topic Covering both established and recently

developed ligation chemistries the book is divided into two didactic parts a section that focuses on the details of bioorthogonal and chemoselective ligation reactions at the level of fundamental organic chemistry and a section that focuses on applications particularly in the areas of chemical biology biomaterials and bioanalysis highlighting the capabilities and benefits of the ligation reactions With chapters authored by outstanding scientists who range from trailblazers in the field to young and emerging leaders this book on a highly interdisciplinary topic will be of great interest for biochemists biologists materials scientists pharmaceutical chemists organic chemists and many others Biomedical Applications of Polymeric Materials and Composites Raju Francis,D. Sakthi Kumar,2016-12-19 With its content taken from only the very latest results this is an extensive summary of the various polymeric materials used for biomedical applications Following an introduction listing various functional polymers including conductive biocompatible and conjugated polymers the book goes on to discuss different synthetic polymers that can be used for example as hydrogels biochemical sensors functional surfaces and natural degradable materials Throughout the focus is on applications with worked examples for training purposes as well as case studies included The whole is rounded off with a look at future trends *Carbohydrates 2018* Amélia Pilar Rauter,Nuno Manuel Xavier,2020-03-25 This book contains original papers and reviews on carbohydrate research in medicine authored by participants of the 29th International Carbohydrate Symposium where this topic had a special emphasis The focus on biological events involving carbohydrates and glycoconjugates has delivered reliable approaches for disease treatment and diagnosis Research on carbohydrate based compounds for therapeutic applications is illustrated in various contributions namely those covering the development of novel agents against Alzheimer s disease e g the neuroprotective C glucosylated flavones and the isonucleoside based cholinesterase inhibitors New imino sugar glucosidase inhibitors are also disclosed a class of compounds with potential for diabetes Gaucher disease or cancer treatment Also the development of a useful synthetic method towards multivalent glycoclusters of biomedical interest is here highlighted The relevance of glycomimetics in drug discovery and the progress on carbohydrates in early diagnosis and cancer treatment are reviewed Noteworthy is the chitosan based delivery system for drug oral administration a new biomaterial based approach to improve bioavailability Another study on the conformation of Streptococcus capsular polysaccharide backbones by molecular modelling provides useful information for bacterial immunotherapeutic approaches All original contributions and reviews clearly demonstrate the potential of glycosciences for innovation in medicinal glyco chemistry and pharmaceutical research *Magnetic Nanomaterials in Analytical Chemistry* Mazaher Ahmadi,Abbas Afkhami,Tayyeb Madrakian,2021-04-28 Magnetic Nanomaterials in Analytical Chemistry provides the first comprehensive review of magnetic nanomaterials in a variety of analytical chemistry applications including basic information necessary for students and those new to the topic to utilize them In addition to analytical chemists those in various other disciplines where these materials have great potential e g organic chemistry catalysis sensors will also find this a valuable resource Magnetic nanomaterials that can be controlled

using external magnetic fields have opened new doors for the development of new sample preparation methods and novel magnetic sorbents for forensic chemistry environmental monitoring magnetic digital microfluidics bioanalysis and food analysis In addition they are seeing wide application as sensing materials in the development of giant magnetoresistive sensors biosensors electrochemical sensors surface enhanced Raman spectroscopy sensors resonance light scattering sensors and colorimetric sensors Includes fundamental information on magnetic nanomaterials including their classification synthesis functionalization and characterization methods separation and isolation techniques toxicity fate and safe disposal Each chapter describes a specific application Utilizes figures schemes and images for better understanding of the principles of the method Presents information on advanced methods such as giant magnetoresistive and magnetic digital microfluidics

Bioelectrochemical Interface Engineering R. Navanietha Krishnaraj, Rajesh K. Sani, 2019-09-02 An introduction to the fundamental concepts and rules in bioelectrochemistry and explores latest advancements in the field Bioelectrochemical Interface Engineering offers a guide to this burgeoning interdisciplinary field The authors noted experts on the topic present a detailed explanation of the field s basic concepts provide a fundamental understanding of the principle of electrocatalysis electrochemical activity of the electroactive microorganisms and mechanisms of electron transfer at electrode electrolyte interfaces They also explore the design and development of bioelectrochemical systems The authors review recent advances in the field including the development of new bioelectrochemical configurations new electrode materials electrode functionalization strategies and extremophilic electroactive microorganisms These current developments hold the promise of powering the systems in remote locations such as deep sea and extra terrestrial space as well as powering implantable energy devices and controlled drug delivery This important book Explores the fundamental concepts and rules in bioelectrochemistry and details the latest advancements Presents principles of electrocatalysis electroactive microorganisms types and mechanisms of electron transfer at electrode electrolyte interfaces electron transfer kinetics in bioelectrocatalysis and more Covers microbial electrochemical systems and discusses bioelectrosynthesis and biosensors and bioelectrochemical wastewater treatment Reviews microbial biosensor microfluidic and lab on chip devices flexible electronics and paper and stretchable electrodes Written for researchers technicians and students in chemistry biology energy and environmental science Bioelectrochemical Interface Engineering provides a strong foundation to this advanced field by presenting the core concepts basic principles and newest advances

Phosphors, Up Conversion Nano Particles, Quantum Dots and Their Applications Ru-Shi Liu, 2016-09-01 This book introduces readers to fundamental information on phosphor and quantum dots It comprehensively reviews the latest research advances in and applications of fluoride phosphors oxide phosphors nitridosilicate phosphors and various quantum dot materials Phosphors and phosphor based quantum dot materials have recently gained considerable scientific interest due to their wide range of applications in lighting displays medical and telecommunication technologies This work will be of great interest to researchers and graduate students in

materials sciences and chemistry who wish to learn more about the principles synthesis and analysis of phosphors and quantum dot materials

Membrane Biophysics Hongda Wang,Guohui Li,2017-11-21 This book highlights recent advances in and diverse techniques for exploring the plasma membrane s structure and function It starts with two chapters reviewing the history of membrane research and listing recent advances regarding membrane structure such as the semi mosaic model for red blood cell membranes and the protein layer lipid protein island model for nucleated tissue cell membranes It subsequently focuses on the localization and interactions of membrane components dynamic processes of membrane transport and transmembrane signal transduction Classic and cutting edge techniques e g high resolution atomic force microscopy and super resolution fluorescence microscopy used in biophysics and chemistry are presented in a very comprehensive manner making them useful and accessible to both researchers in the field and novices studying cell membranes This book provides readers a deeper understanding of the plasma membrane s organization at the single molecule level and opens a new way to reveal the relationship between the membrane s structure and functions making it essential reading for researchers in various fields

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Biopolymers for Biomedical and Biotechnological Applications Bernd H. A. Rehm,M. Fata Moradali,2021-07-06 Provides insight into biopolymers their physicochemical properties and their biomedical and biotechnological applications This comprehensive book is a one stop reference for the production modifications and assessment of biopolymers It highlights the technical and methodological advancements in introducing biopolymers their study and promoted applications Biopolymers for Biomedical and Biotechnological Applications begins with a general overview of biopolymers properties and biocompatibility It then provides in depth information in three dedicated sections Biopolymers through Bioengineering and Biotechnology Venues Polymeric Biomaterials with Wide Applications and Biopolymers for Specific Applications Chapters cover advances in biocompatibility advanced microbial polysaccharides microbial cell factories for biomanufacturing of polysaccharides exploitation of exopolysaccharides from lactic acid bacteria and the new biopolymer for biomedical

application called nanocellulose Advances in mucin biopolymer research are presented along with those in the synthesis of fibrous proteins and their applications The book looks at microbial polyhydroxyalkanoates PHAs as well as natural and synthetic biopolymers in drug delivery and tissue engineering It finishes with a chapter on the current state and applications of and future trends in biopolymers in regenerative medicine Offers a complete and thorough treatment of biopolymers from synthesis strategies and physiochemical properties to applications in industrial and medical biotechnology Discusses the most attracted biopolymers with wide and specific applications Takes a systematic approach to the field which allows readers to grasp and implement strategies for biomedical and biotechnological applications Biopolymers for Biomedical and Biotechnological Applications appeals to biotechnologists bioengineers and polymer chemists as well as to those working in the biotechnological industry and institutes

Bioconjugate Techniques Greg T. Hermanson, 2010-07-26 Bioconjugate Techniques 2nd Edition is the essential guide to the modification and cross linking of biomolecules for use in research diagnostics and therapeutics It provides highly detailed information on the chemistry reagent systems and practical applications for creating labeled or conjugate molecules It also describes dozens of reactions with details on hundreds of commercially available reagents and the use of these reagents for modifying or cross linking peptides and proteins sugars and polysaccharides nucleic acids and oligonucleotides lipids and synthetic polymers A one stop source for proven methods and protocols for synthesizing bioconjugates in the lab Step by step presentation makes the book an ideal source for researchers who are less familiar with the synthesis of bioconjugates More than 600 figures that visually describe the complex reactions associated with the synthesis of bioconjugates Includes entirely new chapters on the latest areas in the field of bioconjugation as follows Microparticles and nanoparticles Silane coupling agents Dendrimers and dendrons Chemoselective ligation Quantum dots Lanthanide chelates Cyanine dyes Discrete PEG compounds Buckyballs fullerenes and carbon nanotubes Mass tags and isotope tags Bioconjugation in the study of protein interactions

Perspectives In Micro- And Nanotechnology For Biomedical Applications Juliana M Chan, Chenjie Xu, 2016-07-28 Perspectives in Micro and Nanotechnology for Biomedical Applications is an exciting new book that takes readers inside the fast paced world of biomedical sciences fueled by advancements in nanotechnology polymer chemistry and pharmacology Guided by biotech researchers Chenjie Xu and Juliana Chan an international ensemble of leading experts in the field cover topics ranging from classical chemical tools to nanoparticles as imaging probes and drug carriers and combinatorial screens for new lipids and polymers At the microscale it discusses advancements in hydrogels and platform technologies such as cell ghosts This book provides a broad perspective into the basic principles and applications of today's most promising micro and nanotechnologies and is an up to date reference book for researchers It is also suitable for undergraduate and graduate students patent lawyers and investors who are interested in the latest innovations taking place in the biomedical sciences many of which may dramatically improve the lives of millions of people

Biomedical Photonics Handbook Tuan

Vo-Dinh,2014-07-29 Shaped by Quantum Theory Technology and the Genomics RevolutionThe integration of photonics electronics biomaterials and nanotechnology holds great promise for the future of medicine This topic has recently experienced an explosive growth due to the noninvasive or minimally invasive nature and the cost effectiveness of photonic modalities in Medical Nanotechnology and Nanomedicine Harry F. Tibbals,2017-12-19 Considering the fluid nature of nano breakthroughs and the delicate balance between benefits and consequences as they apply to medicine readers at all levels require a practical understandable base of information about these developments to take greatest advantage of them Medical Nanotechnology and Nanomedicine meets that need by introducing non experts to nanomedicine and its evolving organizational infrastructure This practical reference investigates the impact of nanotechnology on applications in medicine and biomedical sciences and the broader societal and economic effects Eschewing technological details it focuses on enhancing awareness of the business regulatory and administrative aspects of medical applications It gives readers a critical balanced and realistic evaluation of existing nanomedicine developments and future prospects an ideal foundation upon which to plan and make decisions Covers the use of nanotechnology in medical applications including imaging diagnosis and monitoring drug delivery systems surgery tissue regeneration and prosthetics Part of the Perspectives in Nanotechnology series which contains broader coverage of the societal implications of nanotechnology this book can be used as a standalone reference Organized by historical perspective current status and future prospects this powerful book Explores background definitions and terms and recent trends and forces in nanomedicine Surveys the landscape of nanomedicine in government academia and the private sector Reviews projected future directions capabilities sustainability and equity of nanomedicine and choices to be made regarding its use Includes graphical illustrations references and keywords to reinforce concepts and aid further research In its assessment of alternative and sometimes conflicting concepts proposed for the application of nanotechnology to medicine this book surveys major initiatives and the work of leading labs and innovators It uses informative examples and case summaries to illustrate proven accomplishments and imagined possibilities in research and development

Colloids in Drug Delivery Monzer Fanun,2016-04-19 Colloidal drug delivery systems present a range of therapeutic benefits in the treatment of a number of challenging conditions allowing researchers to cross barriers that have previously prevented efficient treatment while offering improved and more targeted absorption Summarizing recent research in the field Colloids in Drug Delivery assembles

Modern Physical Chemistry: Engineering Models, Materials, and Methods with Applications Reza K. Haghi,Emili Besalu,Maciej Jaroszewski,Sabu Thomas,Praveen K.M.,2018-09-03 This volume brings together innovative research new concepts and novel developments in the application of new tools for chemical engineers It presents significant research reporting on new methodologies and important applications in the field of chemical engineering Highlighting theoretical foundations real world cases and future directions this book covers selected topics in a variety of areas including chemoinformatics and computational chemistry advanced dielectric materials

nanotechniques polymer composites It also presents several advanced case studies The topics discussed in this volume will be valuable for researchers practitioners professionals and students of chemistry material and chemical engineering

Regenerative Medicine and Plastic Surgery Dominik Duscher, Melvin A. Shiffman, 2019-11-26 This book discusses the current research concepts and the emerging technologies in the field of stem cells and tissue engineering It is the first authoritative reference documenting all the ways that plastic surgical practice and regenerative medicine science overlap or provide a road map for the future of both specialties The Editors have provided a valuable service by gathering in one place the leading voices in these two fields in clear and concise manner Divided into five parts the book opens with a description of the elements of regenerative medicine including definitions basic principles of soft and bone tissue regeneration biomaterials and scaffolds Current research concepts are explored in the second part of this book for example mechanotransduction and the utility of extracellular vesicles In the third part the editors present the emerging technologies and highlight the novel perspectives on bionic reconstruction and biomimetics in surgery and regenerative medicine Part four deals with translational aspects including practical information on moving scientific findings from bench to bedside The final part then describes in detail applications in clinical plastic surgery Written by leading experts this book is an invaluable resource for researchers students beginners and experienced clinicians in a range of specialties In your hands is a comprehensive encyclopedia of two rapidly converging fields Drs Duscher and Shiffman have done an outstanding job of highlighting the interdependent relationship between plastic surgery and regenerative medicine Ultimately this is to the benefit of both fields Geoffrey C Gurtner MD FACS Johnson and Johnson Distinguished Professor of Surgery Professor by courtesy of Bioengineering and Materials Science Inaugural Vice Chairman of Surgery for Innovation Stanford University School of Medicine

Synthetic Inorganic Chemistry Ewan J. M. Hamilton, 2021-04-17 Synthetic Inorganic Chemistry New Perspectives presents summaries of the work of some of the most creative researchers in the field The book highlights the most novel approaches and burgeoning applications of synthetic inorganic chemistry in development Topics include non precious metals in catalysis smart inorganic polymers new inorganic therapeutics new photocatalysts for hydrogen production and more As the first volume in the Developments in Inorganic Chemistry series this work is a valuable resource for students and researchers working in inorganic chemistry and material science Illustrates the scope and vitality of modern synthetic inorganic chemistry Shows the centrality of inorganic chemistry addressing a variety of global challenges Serves to define the current important and expanding roles of synthetic inorganic chemistry in interdisciplinary areas such as materials science synthetic organic chemistry homogeneous and heterogeneous catalysis

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