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# Macromolecular Biorecognition

Principles and Methods

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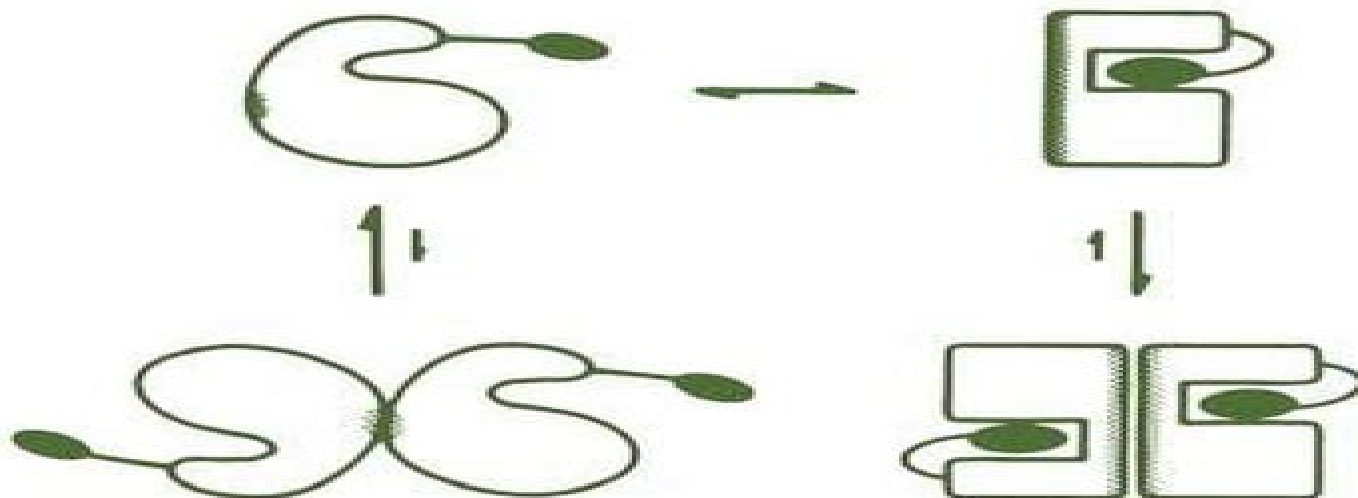
Edited by

*Irwin Chaiken*

*Emilia Chiancone*

*Angelo Fontana and Paolo Neri*

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# Macromolecular Biorecognition

**Ian Pickup**




## Macromolecular Biorecognition:

**Macromolecular Biorecognition** Irwin Chaiken, Emilia Chiancone, Angelo Fontana, Paolo Neri, 2012-12-06

*Comprehensive Biomaterials II* Kevin Healy, Dietmar W. Hutmacher, David W. Grainger, C. James Kirkpatrick, 2017-05-18

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**Library of Medicine Current Catalog** National Library of Medicine (U.S.),1988      **Design of Polymeric Platforms for Selective Biorecognition** Juan Rodríguez-Hernández,Aitziber L. Cortajarena,2015-08-21 This book addresses in an integrated manner all the critical aspects for building the next generation of biorecognition platforms from biomolecular recognition to surface fabrication The most recent strategies reported to create surface nano and micropatterns are thoroughly analyzed This book contains descriptions of the types of molecules immobilized at surfaces that can be used for specific biorecognition how to immobilize them and how to control their arrangement and functionality at the surface Small molecules peptides proteins and oligonucleotides are at the core of the biorecognition processes and will constitute a special part of this book The authors include detailed information on biological processes biomolecular screening biosensing diagnostic and detection devices tissue engineering development of biocompatible materials and biomedical devices

*Encyclopedia of Microfluidics and Nanofluidics* Dongqing Li, 2008-08-06 Covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research insights and applied techniques across all areas Coverage includes electrical double layers optofluidics DNC lab on a chip nanosensors and more  , 1989 **Macromolecular Anticancer**

Therapeutics L. Harivardhan Reddy, Patrick Couvreur, 2010-03-20 In spite of the development of various anticancer drugs the

therapy of cancer has remained challenging for decades The current therapy of cancer is overwhelmed because of the inability to deliver therapeutics to all regions of a tumor in effective therapeutic concentrations intrinsic or acquired resistance to the treatment with currently available agents via genetic and epigenetic mechanisms and toxicity As a result cancer therapy using conventional therapeutics and different types of treatment regimens using this therapeutics has not led to a convincing survival benefit of the patients In this context Macromolecular therapeutics offer several advantages over conventional low molecular therapeutics by various ways such as enable the use of larger doses of these agents by limiting the toxicity by enhanced permeability and retention into tumors by tumor targeting using tumor specific antibodies by specific inhibition of oncogenes using anticancer oligonucleotides etc Cancer treatment using this macromolecular therapeutics has considerably improved the survival benefit for patients As a result various macromolecular therapeutics are already commercialized or are under clinical development Although we are far from a real magic bullet today looking at the pace of research and current success in this field of macromolecular therapeutics it appears that we are approaching a magic bullet for the efficient treatment of cancer Thus we believe that the subject of this book is very timely and that the book will fill an unmet need in the market This book is unique and assembles various types and aspects of macromolecular anticancer therapeutics for cancer therapy in one shell and conveys the importance of this interdisciplinary field to the broad audience Thus in a nutshell this book details the basics of cancer and various therapeutic strategies such as those based on macromolecular therapeutics hence can become an important reference for practitioners oncologists medical pharmacologists medicinal chemists biomedical scientists experimental pharmacologists pharmaceutical technologists and particularly it can essentially become a handbook of macromolecular therapeutics for cancer therapy for graduates post graduates and Ph D students in these fields

*Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70*

**Smart Nanosensors** Imran Uddin, 2025-04-21 This book serves as a comprehensive compilation of contemporary research conducted in the domain of nanosensors The amalgamation of many elements within the emerging field contributes to the development of a useful collection specifically designed for inexperienced researchers in the domain of smart materials and nanosensor technologies An adequate range of subjects has been incorporated into the present book It includes enzyme mimetic use of smart nanomaterials for enhanced biosensing applications theranostic utilization of smart nanomaterials for targeted drug delivery sensors for pollutant detection and the utilization of smart nanomaterials in the development of biosensors for studying host microbe interactions Nanosensors have emerged as a promising avenue for various applications including sensing in the fields of medicine packaging and heavy metal ion detection Recent developments in the field of smart nanomaterials have led to significant advancements in the application of intelligent switches and sensors within the domains of agriculture food production and water treatment The primary emphasis of this book is the study of the synthesis and fabrication processes involved in the production of smart materials

together with their application within the domain of sensor technology The existing body of literature has two main categories introductory textbooks that provide fundamental knowledge about the field and specialized publications that focus exclusively on certain subtopics within the domain of sensor technology The existing material of the book makes it a complete reference resource that is well suited for researchers in the area It especially caters to advanced graduate students who are seeking senior graduate MTech and MS degrees in the subject of sensor technology Additionally this publication would function as an essential resource for researchers across diverse disciplines within the area of materials science who are aiming to propel the development of smart materials

**Macromolecules in the Functioning Cell** Aleksandr Aleksandrovich Baev, A. D. Mirzabekov, 1991 **Current Catalog**, 1988 First multi year cumulation covers six years 1965 70

Surface Engineering of Polymeric Biomaterials Todorka G Vladkova, 2013-01-10 Biomaterials work in contact with living matter and this gives a number of specific requirements for their surface properties such as bioinertness or bioactivity antibiofouling and so on Surface engineering based on physical chemical physical chemical biochemical or biological principles is important for the preparation of biomaterials with the desired biocontact properties This book helps the reader gain the knowledge to enable them to work in such a rapidly developing area with a comprehensive list of references given for each chapter Strategies for tailoring the biological response through the creation of biomaterial surfaces resistant to fouling are discussed Methods of eliciting specific biomolecular interactions that can be further combined with patterning techniques to engineer adhesive areas in a noninteractive background are also covered The theoretical basis of surface engineering for improvement of biocontact properties of polymeric biomaterials as well as the current state of the art of the surface engineering of polymeric biomaterials are presented The book also includes information on the most used conventional and advanced surface engineering methods The book is targeted at researchers post doctorates graduate students and those already working in the field of biomaterials with a special interest in the creation of polymeric materials with improved biocontact properties via surface engineering

**Surface Design: Applications in Bioscience and Nanotechnology** Renate Förch, Holger Schönherr, A. Tobias A. Jenkins, 2009-08-06 This carefully selected balance of tutorial like review chapters and advanced research covers hot topics in the field of biointerfaces biosensing nanoparticles at interfaces and functionalized quantum dots It also includes chapters arising from non published work with topics such as surface design and their applications as well as new developments in analytical tools for materials science and life science Based on the very close and complementary collaboration of three distinguished leading research groups this book highlights recent advances in the field ranging from synthesis and fabrication of organic and polymeric materials surface and interface science to advanced analytical methods It thus addresses new concepts in micro and nanofabrication bio nanotechnology biosensors and the necessary compositional and structural analysis Particular attention is paid throughout to complex hierarchical interface architectures and possible applications of the chemical and physical methodologies discussed covering

bio diagnostics novel biosensors and adhesion science With its unique combination of expertise from chemistry physics biology surface science and engineering this is a valuable companion for students practitioners and established experts

*Lactoferrin* T. William Hutchens, Bo Lönnerdal, 2012-12-06 The number of investigators focusing their attention on lactoferrin has increased dramatically in recent years Lactoferrin is a protein with more than one known structure and a number of proposed biological functions including several with important regulatory consequences In many ways it has been an easy protein to investigate however there have been difficulties understanding specific structure function relationships particularly as it functions in vivo Research funding dedicated to this protein has previously been limited but is now increasing As lactoferrin begins to emerge formally as a protein of significance to the medical and industry it is more important than ever to coordinate professional and integrate research efforts whenever possible and to share the results of these efforts within the expanding array of medical and scientific disciplines involved It was our intention to provide a forum to summarize and disseminate the most recent advances in this field Included in *Lactoferrin Interactions and Biological Functions* are selected presentations representing the many disciplines involved in defining lactoferrin function in terms of its known structural features including its carbohydrate side chains receptor binding sites its capacity to bind different metal ions and other newly discovered bioactive domains Several of the possible physiological functions of lactoferrin are described and summarized in detail including the role of lactoferrin in bacterial killing its involvement in cell growth and proliferation in the modulation of immune function and in iron absorption

**Neoplastic Transformation in Human Cell Culture** John S. Rhim, Anatoly Dritschilo, 2012-12-06 The role of carcinogenic agents in the development of human cancers is now being defined using a variety of human cells as experimental model systems A workshop on neoplastic transformation in human cell systems in vitro mechanisms of carcinogenesis was held at the Georgetown University Medical Center Washington DC on April 25-26 1991 The aims of the workshop were to present the state of the art in the transformation of human cells in culture as well as to provide insight into the molecular and cellular changes involved in the conversion of normal cells to a neoplastic state of growth The following topics were closely related to the theme of the workshops 1 Derivation of in vitro model systems epithelial fibroblastic and hematopoietic 2 Factors modulating cellular transformation 3 Usefulness of defined in vitro model systems for viral chemical and radiation carcinogenesis 4 Multistep nature of human cell carcinogenesis 5 Role of activated and suppressor oncogenes in neoplastic transformation The workshop was organized by J S Rhim and A Dritschilo cochairmen G Jay Little M McCormick R Tennant and R R Weischelbaum There were 32 speakers 30 poster presentations and about 190 participants

*Bioinspired and Biomimetic Polymer Systems for Drug and Gene Delivery* Zhongwei Gu, 2015-03-09 Here front line researchers in the booming field of nanobiotechnology describe the most promising approaches for bioinspired drug delivery encompassing small molecule delivery delivery of therapeutic proteins and gene delivery The carriers surveyed include polymeric proteinaceous and lipid systems on the nanoscale with a focus on

their adaptability for different cargoes and target tissues Thanks to the broad coverage of carriers as well as cargoes discussed every researcher in the field will find valuable information here      *Immobilised Macromolecules: Application Potentials* U.B. Sleytr,P. Messner,D. Pum,M. Sara,2013-06-29 Immobilized functional biomolecules particularly enzymes are important tools in biotechnology biochemistry biochemical engineering biomedicine and biosensor research This book provides an introduction and overview of selected major areas of the science and technology of immobilized systems The chapters are intended as an introduction and overview to these interdisciplinary areas as well as a source of practical details and of new research trends This book will be useful for scientists technologists academics and students in direct and related fields      Metal-Organic Frameworks-Based Hybrid Materials for Environmental Sensing and Monitoring Ram K. Gupta,Tahir Rasheed,Tuan Anh Nguyen,Muhammad Bilal,2022-06-22 With an unprecedented population boom and rapid industrial development environmental pollution has become a severe problem for the ecosystem and public health Classical techniques for sensing and determining environmental contaminants often require complex pretreatments expensive equipment and longer testing times Therefore new and state of the art sensing technologies possessing the advantages of excellent sensitivity rapid detection ease of use and suitability for in situ real time and continuous monitoring of environmental pollutants are highly desirable Metal Organic Frameworks based Hybrid Materials for Environmental Sensing and Monitoring covers the current state of the art hybrid nanomaterials based on metal organic frameworks for electrochemical monitoring purposes Accomplished authors cover various synthetic routes methods and theories behind enhancing the electrochemical properties and applications of metal organic frameworks based hybrid nanomaterials for electrochemical sensing of environmental pollutants under one roof This book is essential reading for all academic and industrial researchers working in the fields of materials science and nanotechnology      **Analytical Affinity Chromatography** Irwin M. Chaiken,2018-01-10 This volume presents discussions of theoretical and experimental considerations that have led to the analytical affinity chromatography field as well as current efforts to use this methodology to characterize the interaction mechanisms of biological macromolecules and to establish conditions for employing bioaffinity chromatographic systems as preparative tools The chapters include a comprehensive discussion of interactive chromatography theory DeLisi and Hethcote a review of experimental data obtained for biological macromolecules and the relevant theoretical considerations of affinity chromatography which led to them Swaisgood and Chaiken an evaluation of rate processes in affinity chromatography and the potential to determine biologically meaningful chemical rate constants Walters and the use of quantitative and molecular considerations to design affinity chromatographic systems Stellwagen and Liu      **Advanced Molecularly Imprinting Materials** Ashutosh Tiwari,Lokman Uzun,2016-11-02 Molecularly imprinted polymers MIPs are an important functional material because of their potential implications in diverse research fields The materials have been developed for a range of uses including separation environmental biomedical and sensor applications In this book the

chapters are clustered into two main sections Strategies to be employed when using the affinity materials and rational design of MIPs for advanced applications In the first part the book covers the recent advances in producing MIPs for sample design preparation and characterizations In the second part the chapters demonstrate the importance and novelty of creation of recognition imprinted on the materials and surfaces for a range of microbial detection sensors in the biomedical environmental and food safety fields as well as sensing human odor and virus monitoring systems Part 1 Strategies of affinity materials Molecularly imprinted polymers MIP nanomaterials Micro and nanotraps for solid phase extraction Carbonaceous affinity nanomaterials Fluorescent MIPs MIP based fiber optic sensors Part 2 Rational design of MIP for advanced applications MIP based biomedical and environmental sensors Affinity adsorbents for environmental biotechnology MIP in food safety MIP based virus monitoring MIP based drug delivery and controlled release Biorecognition imprints on the biosensor surfaces MIP based sensing of volatile organic compounds in human body odour MIP based microcantilever sensor system



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