

**H. Osada** (Ed.)



# Bioprobes

Biochemical Tools for  
Investigating Cell Function



Springer

# Bioprobes Biochemical Tools For Investigating Cell Function

**Mrutyunjay Suar, Namrata  
Misra, Chandravanu Dash**



## **Bioprobes Biochemical Tools For Investigating Cell Function:**

**Bioprobes** Hiroyuki Osada,2017-05-16 This new edition provides the most advanced research using bioprobes on the chemical control of 1 cell cycle and differentiation 2 epigenetics 3 apoptosis and autophagy and 4 immune response The bioprobe first proposed in the first edition has become an indispensable tool for chemical biology and has substantially assisted in the investigation of complex biochemical processes of cells New areas of investigation such as stem cell research epigenetic research and autophagy research have rapidly advanced in the past 10 years Including these new findings this second edition supplies up to date information on the biochemical tools called bioprobes Data on each bioprobe such as chemical structure origin function and references are presented as one item in this volume Readers will easily find useful information and will be able to determine the appropriate bioprobes to investigate cell functions The information on bioprobes and their use in research makes this book a valuable source for researchers in diverse fields Not only scientists in academia but also in the pharmaceutical industries will discover the most important information about small molecules useful for drug discovery

**Bioprobes** H Osada,2000-05-01 Rapid advances in the study of the molecular basis of mammalian cell proliferation differentiation and apoptosis have made it possible to develop new screening systems for isolating from microbial metabolites specific inhibitors of mammalian cell functions Bioprobes is the term used to describe these inhibitors which are extremely useful agents in investigating the molecular and chemical regulation of eukaryotic cell function and apoptosis Another area where bioprobes are playing an important role is research into immune cell function This book is the first to present the groundbreaking applications of bioprobes as tools for biochemical research A large appendix contains the chemical structure origin function key references and other essential data for more than 80 important bioprobes The information for each bioprobe is shown in a two page display in an easy to use format for identifying specific bioprobes for investigation of cell function

**Bioprobes** H. Osada,2012-12-06 Rapid advances in the study of the molecular basis of mammalian cell proliferation differentiation and apoptosis have made it possible to develop new screening systems for isolating from microbial metabolites specific inhibitors of mammalian cell functions Bioprobes is the term used to describe these inhibitors which are extremely useful agents in investigating the molecular and chemical regulation of eukaryotic cell function and apoptosis Another area where bioprobes are playing an important role is research into immune cell function This book is the first to present the groundbreaking applications of bioprobes as tools for biochemical research A large appendix contains the chemical structure origin function key references and other essential data for more than 80 important bioprobes The information for each bioprobe is shown in a two page display in an easy to use format for identifying specific bioprobes for investigation of cell function

**Protein Targeting with Small Molecules** Hiroyuki Osada,2009-07-31 Discover the link between the latest chemical biology approaches and novel drug therapies Protein Targeting with Small Molecules Chemical Biology Techniques and Applications takes readers beyond the use of chemical biology in basic research

providing a highly relevant look at techniques that can address the challenges of biology and drug design and development This indispensable bench companion features up to date coverage of advances in chemistry and assesses their impact on developing new therapeutics making it ideal for chemical biologists and medicinal chemists who are developing small molecule drugs to target proteins and treat diseases In addition the book examines the full range of complex biological systems and their interrelationship with chemistry from the interaction of biological response modifiers with proteins to the chemical biology of cell surface oligosaccharides Distinguished by an overview of chemical biology that is reinforced and clarified by detailed examples and descriptions of techniques Protein Targeting with Small Molecules Chemical Biology Techniques and Applications Introduces key technologies and methods of chemical biology designed to detect the interactions of small molecules and proteins Facilitates the discovery of small molecules that bind to proteins and describes the molecules application in the investigation of biological processes Presents timely coverage of the development of fluorescent probes for small molecules as well as the generation of small molecule ligands and inhibitors Reviews important techniques such as chemical genomics target profiling immobilization technology detection methods chemical inhibition and structure based targeting Offers a compelling synopsis of data that underscores the recent progress made in the area of targeting proteins by small molecules

**Handbook of Microalgal Culture** Amos Richmond, 2008-04-15 Handbook of Microalgal Culture is truly a landmark publication drawing on some 50 years of worldwide experience in microalgal mass culture This important book comprises comprehensive reviews of the current available information on microalgal culture written by 40 contributing authors from around the globe The book is divided into four parts with Part I detailing biological and environmental aspects of microalgae with reference to microalgal biotechnology and Part II looking in depth at major theories and techniques of mass cultivation Part III comprises chapters on the economic applications of microalgae including coverage of industrial production the use of microalgae in human and animal nutrition and in aquaculture in nitrogen fixation hydrogen and methane production and in bioremediation of polluted water Finally Part IV looks at new frontiers and includes chapters on genetic engineering microalgae as platforms for recombinant proteins bioactive chemicals heterotrophic production microalgae as gene delivery systems for expressing mosquitoicidal toxins and the enhancement of marine productivity for climate stabilization and food security Handbook of Microalgal Culture is an essential purchase for all phycologists and also those researching aquatic systems aquaculture and plant sciences There is also much of great use to researchers and those involved in product formulation within pharmaceutical nutrition and food companies Libraries in all universities and research establishments teaching and researching in chemistry biological and pharmaceutical sciences food sciences and nutrition and aquaculture will need copies of this book on their shelves Amos Richmond is at the Blaustein Institute for Desert Research Ben Gurion University of the Negev Israel **Journal of Cell Science** ,2001 **Journal of Experimental Biology** ,2001 *Microbial Engineering for Therapeutics* Mrutyunjay Suar, Namrata Misra, Chandravanu

Dash,2022-10-29 This book highlights the recent advances in the field of microbial engineering and its application in human healthcare It underscores the systemic and synthetic biology approaches for engineering microbes and discusses novel treatments for inflammatory bowel diseases based on engineered probiotics The book also reviews the different options and methods for engineering microbes ranging from recombinant DNA technology to designing microbes for targeting specific sites and delivering therapeutics Further it discusses genetically engineered microorganisms for smart diagnostics and describes current approaches in microbial gene editing using CRISPR Cas9 based tools Lastly it summarizes the potential applications of human microbiome engineering in improving human health and explores potential strategies for scaling up the production of engineered microbial strains for commercial purposes as well as the challenges Given its scope this book is a valuable resource for students researchers academics and entrepreneurs interested in understanding microbial engineering for the production of commercial products      Methods in Protein Biochemistry Harald Tschesche,2011-12-23 This book presents a survey of recent developments in protein biochemistry Top researchers in the field of protein biochemistry describe modern methods to address the challenges of protein purification by three phase partitioning and their folding and degradation by the functions of chaperones The significance of peptide purity for fibril formation is addressed as well as the use of target oriented peptide arrays in palliative approaches in mucoviscidose The design and application of protein epitope mimetics just as the structural resolving of the misfolding of various mutant proteins in serpinopathies enlarge our tools in resolving pathophysiological imbalances      *Chemical Sensors and Biosensors for Medical and Biological Applications* Ursula E. Spichiger-Keller,2008-11-21 This book introduces the principles and concepts of chemical and biochemical sensors for analyzing medical as well as biological samples For applications like analyzing or monitoring gastric juice or blood plasma the potential of sensors is exceptionally large Focussed on these applications the interpretation of analytical results is explained Specific advantages are compared to other analytical techniques Numerous tables with data provide useful information not easily found elsewhere and make a handy source of reference Ursula E Spichiger Keller is head of the Center for Chemical Sensors Biosensors and Bioanalytical Chemistry at the Swiss Federal Institute of Technology ETH in Zurich      Comprehensive Materials Processing ,2014-04-07 Comprehensive Materials Processing Thirteen Volume Set provides students and professionals with a one stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe It provides authoritative analysis of all processes technologies and techniques for converting industrial materials from a raw state into finished parts or products Assisting scientists and engineers in the selection design and use of materials whether in the lab or in industry it matches the adaptive complexity of emergent materials and processing technologies Extensive traditional article level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features Coverage encompasses the general categories of solidification powder deposition and deformation processing and includes discussion on plant and tool design

analysis and characterization of processing techniques high temperatures studies and the influence of process scale on component characteristics and behavior Authored and reviewed by world class academic and industrial specialists in each subject field Practical tools such as integrated case studies user defined process schemata and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources Biosensors Based on Aptamers and Enzymes Man Bock

Gu,Hak-Sung Kim,2014-07-08 Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3 5 years The series also discusses new discoveries and applications Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification In general special volumes are edited by well known guest editors The series editor and publisher will however always be pleased to receive suggestions and supplementary information Manuscripts are accepted in English

*Bibliography of Agriculture with Subject Index* ,2000 Structured Biological Modelling Michael Kraus,Bernhard Wolf,2024-11-01 Structured Biological Modelling presents a straightforward introduction for computer aided analysis mathematical modelling and simulation of cell biological systems This unique guide brings together the physiological structural molecular biological and theoretical aspects of the signal transduction network that regulates growth and proliferation in normal and tumor cells It provides comprehensive survey of functional and theoretical features of intracellular signal processing and introduces the concept of cellular self organization Exemplified by oscillatory calcium waves strategies for the design of computer experiments are presented that can assist or even substitute for time consuming biological experiments The presented minimal model for proliferation associated signal transduction clearly shows the alterations of the cellular signal network involved in neoplastic growth This book will be useful to cell and molecular biologists oncologists physiologists theoretical biologists computer scientists and all other researchers and students studying functional aspects of cellular signaling *Modeling and Simulation of Functional Nanomaterials for Forensic Investigation* Rakha, Allah,Munawar, Anam,Khanna, Virat,Bansal, Suneev Anil,2023-06-12 Nanotechnology continues to contribute to the progress of innovations in the area of forensic science ranging from sensing DNA monitoring and counterfeiting to fingerprinting In recent years functional nanomaterials are widely applied in nanoscience and forensic investigation They can be used in future interdisciplinary research by scientists engineers and biotechnologists Modeling and Simulation of Functional Nanomaterials for Forensic Investigation focuses on multiple applications related to forensics and provides information linked with nanoparticles This book provides nanotechnology results in improving the sensitivity of established forensic techniques It further focuses on different fabrication and characterization techniques of nanomaterials and relates their characteristics with forensic applications Covering topics such as explosive detection nano forensic testing and nano trackers this premier reference source is a comprehensive resource for material engineers chemical engineers

nanotechnologists biotechnologists forensic scientists students and educators of higher education researchers and academicians      **Electrochemical Aptamer-Based Biosensors for Disease Biomarkers** Masoud Negahdary,2025-07-01

*Electrochemical Aptamer Based Biosensors for Disease Biomarkers* comprehensively presents the principles of designing aptamer based biosensors for disease detection using biomarkers The book considers the latest research and discusses the application of aptasensors design against different diseases In addition sections explore innovative types of electrochemical diagnostic techniques used based on various advanced elements and assemblies such as nanomaterials and signal transducers This is an effective practical guide for researchers to use as a reference for the development of their own laboratory research Covers the collection classification and comparison of recent research in the design of electrochemical aptasensors for the diagnosis of various diseases Presents reviews and compares all applied detection mechanisms in developed aptasensors Provides a practical guide for designing electrochemical aptasensors and showing how to select the optimal components in their design      *Surface Engineering and Functional Nanomaterials for Point-of-Care Analytical Devices* Buddhadev Purohit,Pranjal Chandra,2023-09-22 This book chronicles the role of advanced nanomaterials and surface engineering technologies in the development of point of care biosensors for health and environmental monitoring All aspects of nanomaterial synthesis and characterization functionalization methods sensing surface engineering signal amplification strategies use of innovative technologies to enhance sensor efficiency and performances and innovative applications of nanobiosensors to tackle real life problems are discussed in this book with a focus on optical and electrochemical based sensing It also covers the detection of infectious diseases and various disease biomarkers smartphone based biosensing and portable diagnostics module developments with a discussion on the working mechanisms of these devices in various domains The book also illustrates the recent trends in biosensing and an overview of the challenges and probable solutions for the translation of biosensors from laboratory prototypes to commercial success      **Perspectives in Zebrafish Research** Maria

Caterina Mione,Patrick Blader,Filippo Del Bene,Eirini Trompouki,Isaac Henry Bianco,2020-04-22 In the past decade a small tropical vertebrate fish zebrafish has rapidly gained the interest of research laboratories worldwide as a model system This topic will provide updated perspectives on all fields of zebrafish research from experts gathering at the 5th Zebrafish Principal Investigators Meeting in Trento 20 23 March 2018 The community of researchers using zebrafish is rapidly expanding necessitating a clear plan for how to tackle central questions that remain a challenge in the field and providing inspiration for future studies This is the aim of the workshop and the Frontiers Research Topic will provide a platform for dissemination of novel ideas arising from this meeting      **Label-Free Monitoring of Cells in vitro** Joachim

Wegener,2019-11-18 This book is dedicated to label free non invasive monitoring of cell based assays and it comprises the most widely applied techniques Each approach is described and critically evaluated by an expert in the field such that researchers get an overview on what is possible and where the limitations are The book provides the theoretical basis for

each technique as well as the most successful and exciting applications Label free bioanalytical techniques have been known for a long time as valuable tools to monitor adsorption processes at the solid liquid interface in general and biomolecular interaction analysis BIA in particular The underlying concepts have been progressively transferred to the analysis of cell based assays The strength of these approaches is implicitly given with the name label free the readout is independent of any label reagent or additive that contaminates the system under study and potentially affects its properties Thus label free techniques provide an unbiased analytical perspective in the sense that the sample is not manipulated by additives but pure They are commonly based on physical principles and read changes in integral physical properties of the sample like refractive index conductivity capacitance or elastic modulus to mention just a few Even though it is not implied in the name label free approaches usually monitor the cells under study non invasively meaning that the amplitude of the signal e g electric field strength mechanical elongation that is used for the measurement is too low to interfere or affect In contrast to label based analytical techniques that are commonly restricted to a single reading at a predefined time point label free approaches allow for a continuous observation so that the dynamics of the biological system or reaction become accessible

**Fundamentals of Biosensors in Healthcare** Md Saquib Hasnain, Amit Kumar Nayak, Tejraj M. Aminabhavi, 2024-11-23  
Fundamentals of Biosensors in Healthcare Volume One provides comprehensive coverage on fundamentals while also delving into the diverse types of biosensors used in healthcare This first of three volumes covers biosensors in healthcare and explains the history classifications and fundamentals of biosensing It presents current research and the development of biosensors while also exploring and detailing the distinct types of biosensors and their application in healthcare Combined with Volume Two Materials and Components of Biosensors in Healthcare and Volume Three Applications of Biosensors in Healthcare users will find a holistic set of reference sources that are suitable for researchers graduate students postgraduates and industry professionals involved in biosensing biosensors and biomedical applications Provides information on the basic principles and types of biosensors used in healthcare Examines current research potential challenges and future prospects for biosensor technologies Contributed by global leaders and experts in the field from academia research and industry

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