

Hiroyuki Osada *Editor*

Bioprobables

Biochemical Tools for Investigating Cell
Function

Second Edition

 Springer

Bioprobes Biochemical Tools For Investigating Cell Function

Richard Bailey



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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

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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 mosquito-cidal 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

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. *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

Biomimetic Sensor Technologies Deepa Suhag,2025-12-02 This book dives into the forefront of biosensing technology focusing on the groundbreaking innovations in dopamine and nitric oxide neurotransmitter detection From fundamental principles to advanced applications this book explores how biomimetic sensor technologies are revolutionizing biomedical research and clinical diagnostics Methods results and topics of interest explore the intricate world of biomimetic materials from their principles and design to cutting edge synthesis techniques unlocking the secrets behind their exceptional performance in sensing applications Through multiple case studies and real world examples this book witnesses the transformative impact of biomimetic strategies in enhancing sensitivity and selectivity for dopamine and nitric oxide detection Additionally this book explores the antibacterial properties of nitrogen doped carbon nanosheets and their relevance to biosensing environments providing a holistic understanding of biomimetic sensor technologies Illustrations tables and concise yet comprehensive explanations contribute to a visually engaging journey for the reader making complex concepts easily understandable The book s didactic approach ensures a seamless learning experience guiding readers through the intricacies of biomimetic sensor development and characterization techniques Whether you re a researcher practitioner or student this book unlocks practical insights and strategies to overcome current challenges and explore emerging trends in neurotransmitter biosensing This book gains a deeper understanding of biomimetic sensor development and characterization techniques equipping the reader to make meaningful contributions to biomedical research and clinical diagnostics

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

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