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Hans Joachim Gross (Ed.)

Artificial Nucleases

Marina A. Zenkova (Ed.)



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Artificial Nucleases

Bernard Dujon, Georges Pelletier



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expanding area to provide a novel overview of protein cyclodextrin metal and porphyrin based artificial enzymes as well as enzyme like polymers and dendrimers A must for all scientists interested in this emerging field **Functional Genomics and Biotechnology in Solanaceae and Cucurbitaceae Crops** Hiroshi Ezura,Tohru Ariizumi,Jordi Garcia-Mas,Jocelyn Rose,2016-01-04 This volume summarizes recent technological advances in the design and engineering of Solanaceae and Cucurbitaceae crops It begins with contributions on the tomato and melon genome sequence databases for Solanaceae and Cucurbitaceae research DNA markers in the breeding of the two families and mutant resources and TILLING platforms in tomato research Subsequent chapters address the use of molecular techniques for the modification of important breeding traits such as tomato fruit set growth ripening and sugar accumulation as well as disease and insect resistance in melons The volume closes with chapters on genome editing using artificial nucleases as a future breeding tool and on the development of an in silico crop design system It offers a valuable resource for plant breeders molecular biologists and agronomists

Library of Congress Subject Headings Library of Congress,Library of Congress. Subject Cataloging Division,Library of Congress. Office for Subject Cataloging Policy,2013 **Nucleic Acids from A to Z** Sabine Möller,2008-09-08 Concise but complete this mini encyclopedia contains over 1 500 entries covering all important concepts compounds techniques and acronyms for quick and easy reference Guiding readers through the ever increasing jungle of nucleic acid science and technology the book distills the key information out of the large body of primary literature and presents it in a single volume A first stop resource for everyone from students to established researchers as both a desktop and library reference

Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office,2009 Nucleic Acids Hybridization Anton Buzdin,Sergey Lukyanov,2007-06-07 Several approaches such as microarray hybridization have become extremely popular tools for specialists in biochemistry and biomedicine while the potential of many other advantageous techniques seems to be underestimated Written by an international team of authors this book details the current state of art in hybridization techniques Coverage includes experimental protocols along with comprehensive and detailed method descriptions **Targeted Genome Editing Using Site-Specific Nucleases** Takashi Yamamoto,2015-01-05 This book serves as an introduction to targeted genome editing beginning with the background of this rapidly developing field and methods for generation of engineered nucleases Applications of genome editing tools are then described in detail in iPS cells and diverse organisms such as mice rats marine invertebrates fish frogs and plants Tools that are mentioned include zinc finger nucleases ZFNs transcription activator like effector nucleases TALENs and CRISPR Cas9 all of which have received much attention in recent years as breakthrough technologies Genome editing with engineered nucleases allows us to precisely change the target genome of living cells and is a powerful way to control functional genes It is feasible in almost all organisms ranging from bacteria to plants and animals as well as in cultured cells such as ES and iPS cells Various genome modifications have proven successful including gene knockout and knock in experiments with targeting

vectors and chromosomal editing Genome editing technologies hold great promise for the future for example in biomedical research clinical medicine and generation of crops and livestock with desirable traits A wide range of readers will find this book interesting and with its focus on applications in a variety of organisms and cells the book will be valuable for life scientists in all fields DNA in Supramolecular Chemistry and Nanotechnology Eugen Stulz,Guido H. Clever,2015-09-28 This book covers the emerging topic of DNA nanotechnology and DNA supramolecular chemistry in its broader sense By taking DNA out of its biological role this biomolecule has become a very versatile building block in materials chemistry supramolecular chemistry and bio nanotechnology Many novel structures have been realized in the past decade which are now being used to create molecular machines drug delivery systems diagnosis platforms or potential electronic devices The book combines many aspects of DNA nanotechnology including formation of functional structures based on covalent and non covalent systems DNA origami DNA based switches DNA machines and alternative structures and templates This broad coverage is very appealing since it combines both the synthesis of modified DNA as well as designer concepts to successfully plan and make DNA nanostructures Contributing authors have provided first a general introduction for the non specialist reader followed by a more in depth analysis and presentation of their topic In this way the book is attractive and useful for both the non specialist who would like to have an overview of the topic as well as the specialist reader who requires more information and inspiration to foster their own research **Human Genome Analysis Programme** Manuel Hallen,Andreas Klepsch,1995 The first Human Genome Analysis Programme HGAP was launched for the years 1990 1992 The aim of this programme has been to ensure a significant European contribution to the worldwide effort to map the human genome and in the long term to set a basis for support of European research activities in future wide ranging medical applications

Inorganic Chemical Biology Gilles Gasser,2014-06-23 Understanding identifying and influencing the biological systems are the primary objectives of chemical biology From this perspective metal complexes have always been of great assistance to chemical biologists for example in structural identification and purification of essential biomolecules for visualizing cellular organelles or to inhibit specific enzymes This inorganic side of chemical biology which continues to receive considerable attention is referred to as inorganic chemical biology Inorganic Chemical Biology Principles Techniques and Applications provides a comprehensive overview of the current and emerging role of metal complexes in chemical biology Throughout all of the chapters there is a strong emphasis on fundamental theoretical chemistry and experiments that have been carried out in living cells or organisms Outlooks for the future applications of metal complexes in chemical biology are also discussed Topics covered include Metal complexes as tools for structural biology IMAC AAS XRF and MS as detection techniques for metals in chemical biology Cell and organism imaging and probing DNA using metal and metal carbonyl complexes Detection of metal ions anions and small molecules using metal complexes Photo release of metal ions in living cells Metal complexes as enzyme inhibitors and catalysts in living cells Written by a team of international experts Inorganic

Chemical Biology Principles Techniques and Applications is a must have for bioinorganic bioorganometallic and medicinal chemists as well as chemical biologists working in both academia and industry **Small Molecule DNA and RNA Binders** Martine Demeunynck, Christian Bailly, W. David Wilson, 2006-03-06 The development of molecules that selectively bind to nucleic acids has provided many details about DNA and RNA recognition The range of such substances such as metal complexes peptides oligonucleotides and a wide array of synthetic organic compounds is as manifold as the functions of nucleic acids Nucleic acid recognition sequences are often found in the major or minor groove of a double strand while other typical interactions include intercalation between base pairs or the formation of triple or quadruple helices One example of a binding mode that has recently been proposed is end stacking on such complex structures as the telomere tetraplex In this comprehensive book internationally recognized experts describe in detail the important aspects of nucleic acid binding and in so doing present impressive approaches to drug design Since typical substances may be created naturally or synthetically emphasis is placed on natural products chemical synthesis the use of combinatorial libraries and structural characterization The whole is rounded off by contributions on molecular modeling as well as investigations into the way in which any given drug interacts with its nucleic acid recognition site **Instant Insights: Regulatory frameworks for new agricultural products and technologies** Various authors, Dr Johnny Yeung, Dr Yong Quan Tan, Dr Siew Herng Chan, Dr Kern Rei Chng, Dr Calvin Yeo, Dr Jer Lin Poh, Dr Teng Yong Low, Ms Joanne Sheot Harn Chan, Mr Gregory Jaffe, Dr Rüdiger Hauschild, Dr Willem J. Ravensberg, Prof Wyn Grant, Dr Roma Gwynn, Dr Manfred Lützow, 2024-04-23 Utilises case studies to highlight the processes involved in receiving regulatory approval for new agricultural products Highlights the need for consistent regulation of genome edited crops products from country to country Reviews recent advances in plant protection regulations in the EU focussing on those applicable to biopesticides and bioprotectants **Trajectories of Genetics** Bernard Dujon, Georges Pelletier, 2020-06-03 As genetics becomes increasingly important in our everyday environment misinterpretation of its scientific foundation leads to mixed feelings of hope and fear about the potential of its applications Trajectories of Genetics uncovers the many facets of genetics from humans to animals plants and the microscopic world through more than a century of scientific progress It summarizes the evolution of ideas as the organization and functioning of genetic material has become clearer The book analyzes how genetic information transmitted from generation to generation in nucleic acids enables the fulfillment of biological functions and the evolution of the living world It illustrates current developments in many areas the improvement of species of agronomic interest an increased understanding of microbial worlds the management of genetic pathologies and the synthesis of new forms of life **Biomedical Applications of Acridines** Jan Ježek, Jan Hlaváček, Jaroslav Šebestík, 2017-08-15 This book describes applications of acridines for the treatment of various neurodegenerative diseases such as Alzheimer s disease Parkinson s disease and various prion diseases and discusses the potential of acridines in neuro regenerative medicine Using modern data mining software it presents structures

of acridines with nucleic acids and proteins and compares them with the native structures Furthermore the book presents modern methods of acridine synthesis comparing them with the most useful conventional methods Acridines interact with both nucleic acids and proteins and due to their direct interactions with various enzymes they can be suitable for the treatment of neurodegenerative diseases inflammation immunological disorders and protozoal diseases The characteristic spectral properties of acridines can be employed in labeling proteins nucleic acids lipids and even cells and their compartments Moreover they can be applied in photodynamic therapy

Enzymology Primer for Recombinant DNA Technology Hyeon-Myong Eun, 1996-06-03 Enzymes are indispensable tools in recombinant DNA technology and genetic engineering This book not only provides information for enzymologists but does so in a manner that will also aid nonenzymologists in making proper use of these biocatalysts in their research The Enzymology Primer for Recombinant DNA Technology includes information not usually found in the brief descriptions given in most books on recombinant DNA methodology and gene cloning Provides essential basics as well as up to date information on enzymes most commonly used in recombinant DNA technology Presents information in an easily accessible format to serve as a quick reference source Leads to a better understanding of the role of biocatalysts in recombinant DNA techniques

Nucleases Stuart M. Linn, R. Stephen Lloyd, Richard J. Roberts, 1993 The 1982 publication *Nucleases* was the first book to survey this diverse and important group of enzymes The new edition has been completely revised and updated It provides a comprehensive review of all classes of nucleases their modes of action and biological significance The book is an invaluable source of information for investigators of DNA replication recombination and repair and RNA processing and for everyone interested in the rational use of nucleases as research reagents

Recent Advances in Food Biotechnology Ajay Kumar, Kiran Patrni, Vijai Singh, 2022-06-24 This book highlights important aspects of food biotechnology It is very thoughtfully divided into five sections The first section introduces the readers to food biotechnology and discusses functional foods use of plant and animal biotechnology in improving food quality The second section deals with food microbiology and includes topics such as application of microbial surfactants use of probiotics beneficial microorganisms used in food industry etc The third section describes important macro and micromolecules in foods It includes chapters on food enzymes gluten free formulations use of biopolymers biofortification of food and other important topics The next section discusses novel technologies such as use of nanotechnology in food industry reverse micelle techniques genome editing in food crops etc The book culminates with a section on food quality and management It describes important topics about biosafety and regulatory issues in food biotechnology This book is meant for students researchers and course instructors in food science food technology and biotechnology It is also useful for industry experts in the area of food technology

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