

Dna Origami&sortm

**João O. Malva,Jorge Valero,Miguel Castelo-
Branco,Alard Roebroek**

Self-assembling Biomaterials Helena S. Azevedo,Ricardo

M. P. da Silva,2018-04-17 Self-assembling biomaterials: molecular design, characterization and application in biology and medicine provides a comprehensive coverage on an emerging area of biomaterials science, spanning from conceptual designs to advanced characterization tools and applications of self-assembling biomaterials, and compiling the recent developments in the field. Molecular self-assembly, the autonomous organization of molecules, is ubiquitous in living organisms and intrinsic to biological structures and function. Not surprisingly, the exciting field of engineering artificial self-assembling biomaterials often finds inspiration in Biology. More important, materials that self-assemble speak the language of life and can be designed to seamlessly integrate with the biological environment, offering unique engineering opportunities in bionanotechnology. The book is divided in five parts, comprising design of molecular building blocks for self-assembly; exclusive features of self-assembling biomaterials; specific methods and techniques to predict, investigate and characterize self-assembly and formed assemblies; different approaches for controlling self-assembly across multiple length scales and the nano/micro/macrosopic properties of biomaterials; diverse range of applications in biomedicine, including drug delivery, theranostics, cell culture and tissue regeneration. Written by researchers working in self-assembling biomaterials, it addresses a specific need within the Biomaterials scientific community. Explores both theoretical and practical aspects of self-assembly in biomaterials Includes a dedicated section on characterization techniques, specific for self-assembling biomaterials Examines the use of dynamic self-assembling biomaterials

Springer Handbook of Microscopy Peter W. Hawkes,John C.H.

Spence,2019-11-02 This book features reviews by leading experts on the methods and applications of modern forms of microscopy.

The recent awards of Nobel Prizes awarded for super-resolution optical microscopy and cryo-electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies. Earlier Nobel Prizes for electron microscopy (the instrument itself and applications to biology), scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science, from the study of nanostructures in materials science, physics and chemistry to structural biology. Separate chapters are devoted to confocal, fluorescent and related novel optical microscopies, coherent diffractive imaging, scanning probe microscopy, transmission electron microscopy in all its modes from aberration corrected and analytical to in-situ and time-resolved, low energy electron microscopy, photoelectron microscopy, cryo-electron microscopy in biology, and also ion microscopy. In addition to serving as an essential reference for researchers and teachers in the fields such as materials science, condensed matter physics, solid-state chemistry, structural biology and the molecular sciences generally, the Springer Handbook of Microscopy is a unified, coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy.

Structural DNA Nanotechnology Nadrian C.

Seeman, 2016-01-07 Written by the founder of the field, this is the first text of its kind, providing a definitive introduction to structural DNA nanotechnology. Readers will learn everything there is to know about the subject from the unique perspective of the leading expert in the field. Topics covered range from origins and history, to design, experimental techniques, DNA nanomechanics devices, computing, and the uses of DNA nanotechnology in organising other materials. Clearly written, and benefiting from over 200 full colour illustrations, readers will find this an accessible and easy to follow text that is essential reading for anyone who wants to enter this rapidly growing field. Ideal for advanced undergraduate and graduate students, as well

as researchers in a range of disciplines including nanotechnology, materials science, physics, biology, chemistry, computational science and engineering.

DNA and RNA Origami Julián Valero, 2023-05-11 This volume details diverse methodological approaches on the assembly and applications of DNA origami assemblies. Chapters guide readers through different synthetic and computational methods, isolation and structural characterization of 2D and 3D DNA origami nanoarchitectures, nanophotonics, drug delivery, biophysics, and synthetic biology. Written in the successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *DNA and RNA Origami: Methods and Protocols* aims to serve as a guideline describing the current state-of-the-art assembly methodologies and applications of DNA origami nanostructures.

Advanced Imaging Methods in Neuroscience João O. Malva, Jorge Valero, Miguel Castelo-Branco, Alard Roebroek, 2022-01-11

High-order DNA Origami Structures for DNA Machines Miran Liber Sasson, 2017 In this work, we aimed to develop and demonstrate the technology for long-range maneuvering of molecular motors operating on tracks consisting of more than a single origami unit. -- from abstract.

Chemical Biology of Nucleic Acids Volker A. Erdmann, Wojciech T. Markiewicz, Jan Barciszewski, 2014-04-22 This volume contains 29 engrossing chapters contributed by worldwide, leading research groups in the field of chemical biology. Topics include pre-biology; the establishment of the genetic code; isomerization of RNA; damage of nucleobases in RNA; the dynamic structure of nucleic acids and their analogs in DNA replication, extra- and intra-cellular transport; molecular

crowding by the use of ionic liquids; new technologies enabling the modification of gene expression via editing of therapeutic genes; the use of riboswitches; the modification of mRNA cap regions; new approaches to detect appropriately modified RNAs with EPR spectroscopy and the use of parallel and high-throughput techniques for the analysis of the structure and new functions of nucleic acids. This volume discusses how chemistry can add new frontiers to the field of nucleic acids in molecular medicine, biotechnology and nanotechnology and is not only an invaluable source of information to chemists, biochemists and life scientists but will also stimulate future research.

Investigations of the DNA Origami Folding Process Jean-Philippe Sobczak, 2018

DNA Nanoscience Kenneth Douglas, 2016-10-14 DNA Nanoscience: From Prebiotic Origins to Emerging Nanotechnology melds two tales of DNA. One is a look at the first 35 years of DNA nanotechnology to better appreciate what lies ahead in this emerging field. The other story looks back 4 billion years to the possible origins of DNA which are shrouded in mystery. The book is divided into three parts comprised of 15 chapters and two Brief Interludes. Part I includes subjects underpinning the book such as a primer on DNA, the broader discipline of nanoscience, and experimental tools used by the principals in the narrative. Part II examines the field of structural DNA nanotechnology, founded by biochemist/crystallographer Nadrian Seeman, that uses DNA as a construction material for nanoscale structures and devices, rather than as a genetic material. Part III looks at the work of physicists Noel Clark and Tommaso Bellini who found that short DNA (nanoDNA) forms liquid crystals that act as a structural gatekeeper, orchestrating a series of self-assembly processes using nanoDNA. This led to an explanation of the polymeric structure of DNA and of how life may have emerged from the prebiotic clutter.

Nucleic Acid Nanotheranostics Marco Filice, Jesús Ruiz-

Cabello,2019-02-26 Nucleic Acid Nanotheranostics: Biomedical Applications offers a comprehensive overview of improvements and new trends in fabrication of nanostructures as theranostic multifunctional carriers in gene therapy. With a strong focus on medical applications (comprising diagnosis, therapy and imaging), the book also examines gene therapy in an individual patient's cells or tissues to treat genetic diseases. Sections cover Biomedical and Diagnostic applications of Nucleic Acids, Biologic and Synthetic Advanced Nanostructures for nucleic acid delivery, and important considerations of nanomedicine. This book is a valuable guide for materials scientists, physicians, chemists and engineers, but is also ideal for clinicians wishing to expand their knowledge. Provides a unique source of knowledge (theoretical as well as practical) on nanotheranostic materials for gene therapy at all levels and related scientific areas Covers the pros and cons related to viral and nanomaterial-based delivery of nucleic acids in terms of biosafety, carrier selection, synthesis and bioimaging Presents the only book to include an analysis of nanoformulations approved for clinical use

The exploration of lowdimensional nanoparticles for disease diagnosis and therapy Hua Yue,Zhen Liu,Shaohua Wang,2023-07-27

Biological and Bio-inspired Nanomaterials Sarah Perrett,Alexander K. Buell,Tuomas P.J. Knowles,2019-11-11 This book summarizes naturally occurring and designed bio-inspired molecular building blocks assembled into nanoscale structures. It covers a fascinating array of biomimetic and bioinspired materials, including inorganic nanozymes, structures formed by DNA origami, a wide range of peptide and protein-based nanomaterials, as well as their applications in diagnostics and therapeutics. The book elucidates the mechanism of assembly of these materials and characterisation of their mechanical and physico-chemical properties which inspires readers not only to exploit the potential applications of nanomaterials, but also to

understand their potential risks and benefits. It will be of interest to a broad audience of students and researchers spanning the disciplines of biology, chemistry, engineering, materials science, and physics.

Dna Nanotechnology For Bioanalysis: From Hybrid Dna Nanostructures To Functional Devices Arrabito Giuseppe Domenico, Wang Liqian, 2017-09-25 This book is intended for non-specialists and students, presenting a unique introduction to the field of DNA nanotechnology. The primary focus is on the extraordinary advantages of specificity and sensitivity obtained by integrating DNA nanostructures in bioanalytical devices. DNA Nanotechnology for Bioanalysis provides a concise and rigorous description for the fabrication of various types of functional nanostructures by optimized software-aided high-yield synthesis. Following this is the explanation of methods to decorate these nanostructures with molecules such as proteins, metal nanoparticles or bioorganic moieties covalently bonded onto DNA via self-assembly processes. Also provided is a concise review on non-canonical DNA structures (such as G-quadruplexes) and their targeting by small molecules for applications in pharmacology. Finally, it describes the exciting applications of DNA nanostructures in life sciences and nanomedicine, including ultraspecific molecular delivery, control of cell behavior, analysis of cell lysate and DNA-based nano-tools for super-resolution sub-cellular imaging. Contents: Nanotechnology and the Unique Role of DNA (Elisa-C Schöneberg, Andreas Jaekel and Barbara Saccà) DNA as Building Material at the Nanoscale: From Concepts to Software-aided Design (Wolfgang Pfeifer, Georg Homa, Giuseppe Arrabito and Barbara Saccà) DNA Sensors for the Detection of Biomolecules and Biochemical Conditions (Birgitta R Knudsen, Anni H Andersen, Magnus Stougaard, Giuseppe Arrabito, Raffaella Suriano and Yi-Ping Ho) DNA Nanostructures in Cell Biology and Medicine (Liqian Wang and Giuseppe Arrabito) Targeting G-quadruplex DNA as Potential Anti-cancer

Therapy (Riccardo Bonsignore, Elisa Trippodo and Giampaolo Barone) DNA-aided Super-resolution Bioimaging (JiaJun Li, Giuseppe Arrabito and ZhaoShuai Gao) Readership: Non-specialists, undergraduate students and researchers who are interested in learning the basics of DNA nanotechnology. Keywords: DNA Nanotechnology; Nanostructures; Non-Canonical DNA Structures; G Quadruplexes; Nano-Tools; DNA Origami; DNA Aptamers; Biosensors; Drug Delivery Review: Key Features: Constitutes a clear introduction to the field of DNA Nanotechnology Written in an easy and catchy style Contains information of the most recent findings in the world of DNA Nanotechnology (up to 2016), optimal for researchers who want to keep updated with the latest breakthroughs in the field

Molecular Force Sensors Rachel Bender, Khalid

Salaita, 2022-03-09 Molecular force sensors are a powerful tool for studying the mechanics of cells. These sensors not only provide information on the general mechanical behavior of cells but also can help elucidate the mechanical markers of disease formation and progression. For example, can we use cell mechanics as a biomarker to diagnose cancer? What are the mechanics associated with immune system function? Can cell mechanics be used to better understand the effect of drug treatments? The number of available questions in the field of mechanobiology is endless. After reading this e-book, you will be equipped with the information needed to begin designing your own molecular force sensors, and to begin answering the multitude of questions surrounding cell mechanobiology.

Biophotonics: Spectroscopy, Imaging, Sensing, and Manipulation Baldassare Di Bartolo, John Collins, 2010-11-03 This volume describes an impressive array of the current photonic-related technologies being used in the investigation of biological systems. The topics include various types of microscopy (fluorescence correlation microscopy, two-photon microscopy), sensitive detection of biological molecules, nano-surgery

techniques, fluorescence resonance energy transfer, nano-plasmonics, terahertz spectroscopy, and photosynthetic energy conversion. The emphasis is on the physical principles behind each technique, and on examining the advantages and limitations of each. The book begins with an overview by Paras Prasad, a leader in the field of biophotonics, of several important optical techniques currently used for studying biological systems. In the subsequent chapters these techniques are discussed in depth, providing the reader with a detailed understanding of the basic physical principles at work. An excellent treatment of terahertz spectroscopy demonstrates how photonics is being extended beyond the visible region. Recent results in the use of femtosecond lasers as a tool to porate cell walls demonstrate that the manipulation of light can be used as a tool for the study and the treatment of biological systems. The field of Bio-photonics is broad and still growing, so cannot be covered comprehensively in one volume. But here the reader will find an introduction to some of the major tools used for studying biological systems, and at the same time a detailed, first-principles treatment of the physics behind these tools.

High Resolution Imaging in Microscopy and Ophthalmology

Josef F. Bille, 2019-08-13 This open access book provides a comprehensive overview of the application of the newest laser and microscope/ophthalmoscope technology in the field of high resolution imaging in microscopy and ophthalmology. Starting by describing High-Resolution 3D Light Microscopy with STED and RESOLFT, the book goes on to cover retinal and anterior segment imaging and image-guided treatment and also discusses the development of adaptive optics in vision science and ophthalmology. Using an interdisciplinary approach, the reader will learn about the latest developments and most up to date technology in the field and how these translate to a medical setting. High Resolution Imaging in Microscopy and Ophthalmology - New Frontiers in Biomedical Optics has been

written by leading experts in the field and offers insights on engineering, biology, and medicine, thus being a valuable addition for scientists, engineers, and clinicians with technical and medical interest who would like to understand the equipment, the applications and the medical/biological background. Lastly, this book is dedicated to the memory of Dr. Gerhard Zinser, co-founder of Heidelberg Engineering GmbH, a scientist, a husband, a brother, a colleague, and a friend.

RNA Nanotechnology and Therapeutics Peixuan Guo, Farzin Haque, 2013-07-09 Interest in RNA nanotechnology has increased in recent years as recognition of its potential for applications in nanomedicine has grown. Edited by the world's foremost experts in nanomedicine, this comprehensive, state-of-the-art reference details the latest research developments and challenges in the biophysical and single molecule approaches in RNA nanotechnology. In addition, the text also provides in-depth discussions of RNA structure for nanoparticle construction, RNA computation and modeling, single molecule imaging of RNA, RNA nanoparticle assembly, RNA nanoparticles in therapeutics, RNA chemistry for nanoparticle synthesis, and conjugation and labeling.

Fluorescence Spectroscopy and Microscopy in Biology Radek Šachl, Mariana Amaro, 2023-04-27 This book provides the reader with an updated comprehensive view of the rapidly developing and fascinating field of fluorescence spectroscopy and microscopy. In recent years, fluorescence spectroscopy and microscopy have experienced rapid technological development, which has enabled the detection and monitoring of single molecules with high spatial and temporal resolution. Thanks to these developments, fluorescence has become an even more popular method in physical, biological and related fields. This book guides the reader through both basic and advanced fluorescence spectroscopy and microscopy approaches with a focus on their applications in membrane and protein biophysics.

Each of the four parts: A - Fluorescence Spectroscopy, B - Fluorescence Microscopy, C - Applications of Fluorescence Spectroscopy and Microscopy to biological membranes and D - Applications of Fluorescence Spectroscopy to protein studies are written by experts within the field. The book is intended for both complete beginners who want to quickly orient themselves in the large number of existing fluorescent methods, as well as for advanced readers who are interested in particular methods and their proper use.

Structural DNA Nanotechnology Nadrian C. Seeman, 2015
Written by the founder of the field, this is a comprehensive and accessible introduction to structural DNA nanotechnology.

Biophysics of Infection Mark C. Leake, 2016-05-18
This book describes modern biophysical techniques that enable us to understand and examine dynamic processes of infection at the molecular level. Cutting-edge research articles, laboratory protocols, case studies and up-to-date reviews cover topics such as single-molecule observation of DNA replication repair pathways in *E. coli*; evolution of drug resistance in bacteria; restriction enzymes as barriers to horizontal gene transfer in *Staphylococcus aureus*; infectious and bacterial pathogen biofilms; killing infectious pathogens through DNA damage; bacterial surfaces in host-pathogen interactions; bacterial gene regulation by riboswitches; transcription regulation in enterobacterial pathogens; the bacterial flagellar motor; initial surface colonization by bacteria; *Salmonella Typhi* host restrictions; as well as monitoring proton motive force in bacteria; microbial pathogens using digital holography; mathematical modelling of microbial pathogen motility; neutron reflectivity in studying bacterial membranes; force spectroscopy in studying infection and 4D multi-photon imaging to investigate immune responses. The focus is on the development and application of complex techniques and protocols at the interface of life sciences and physics, which increase the physiological

relevance of biophysical investigations.

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