Chunhai Fan Editor

# DNA Nanotechnology

From Structure to Function



# **Dna Nanotechnology From Structure To Function**

Jie Chen, Yiwei Feng, Scott MacKay

#### **Dna Nanotechnology From Structure To Function:**

**DNA Nanotechnology** Chunhai Fan, Yonggang Ke, 2020-09-07 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field The chapter DNA Programmed Chemical Synthesis of Polymers and Inorganic Nanomaterials is available open access under a CC BY 4 0 **DNA in Supramolecular Chemistry and Nanotechnology** Eugen Stulz, Guido H. License via link springer com 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 **DNA Nanotechnology for Cell Research** Zhou Nie,2024-02-13 DNA Nanotechnology for Cell Research Comprehensive coverage of DNA nanotechnology with a focus on its biomedical applications in disease diagnosis gene therapy and drug delivery Bringing together multidisciplinary aspects of chemical material and biological engineering DNA Nanotechnology for Cell Research From Bioanalysis to Biomedicine presents an overview of DNA nanotechnology with emphasis on a variety of different applications in cell research and engineering covering a unique collection of DNA nanotechnology for fundamental research and engineering of living cells mostly in cellulo and in vivo for the first time Broad coverage of this book ranges from pioneering

concepts of DNA nanotechnology to cutting edge reports regarding the use of DNA nanotechnology for fundamental cell science and related biomedical engineering applications in sensing bioimaging cell manipulation gene therapy and drug delivery The text is divided into four parts Part I surveys the progress of functional DNA nanotechnology tools for cellular recognition Part II illustrates the use of DNA based biochemical sensors to monitor and image intracellular molecules and processes Part III examines the use of DNA to regulate biological functions of individual cells Part IV elucidates the use of DNA nanotechnology for cell targeted medical applications Sample topics covered in DNA Nanotechnology for Cell Research include Selections and applications of functional nucleic acid toolkits including DNA RNA aptamers DNAzymes and riboswitches for cellular recognition metabolite detection and liquid biopsy Developing intelligent DNA nanodevices implemented in living cells for amplified cell imaging smart intracellular sensing and in cellulo programmable biocomputing Harnessing dynamic DNA nanotechnology for non genetic cell membrane engineering receptor signaling reprogramming and cellular behavior regulation Construction of biocompatible nucleic acid nanostructures as precisely controlled vehicles for drug delivery immunotherapy and tissue engineering Providing an up to date tutorial style overview along with a highly valuable in depth perspective DNA Nanotechnology for Cell Research is an essential resource for the entire DNA based nanotechnology community including analytical chemists biochemists materials scientists and bioengineers Aspects of Declarative Languages Matthew Flatt, Hai-Feng Guo, 2013-12-09 This book constitutes the refereed proceedings of the 16th International Symposium on Practical Aspects of Declarative Languages PADL 2014 held in SanDiego CA USA in January 2014 co located with POPL 2014 the 41st Symposium on Principles of Programming Languages The 15 revised papers presented were carefully reviewed and selected from 27 submissions They cover a wide range of topics related to logic and functional programing including language support for parallelism and GPUs constructs and techniques for modularity and extensibility and applications of declarative programming to document processing and DNA simulation

Dna Nanotechnology For Bioanalysis: From Hybrid Dna Nanostructures To Functional Devices Giuseppe Domenico Arrabito, Liqian Wang, 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 assemblage 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 Spherical Nucleic Acids Chad A. Mirkin, 2021-10-14 Spherical nucleic acids SNAs comprise a nanoparticle core and a densely packed and highly oriented nucleic acid shell They have novel structure dependent properties that differ from those of linear nucleic acids and that makes them useful in chemistry biology the life sciences medicine materials science and engineering This book is a reprint volume that compiles 101 key papers that have been published by the Mirkin Group at Northwestern University USA and their collaborators over the past more than two decades Volume 1 provides an overview and a historical framework of SNAs and discusses their enabling features which set them apart from all other forms of matter Volume 2 covers the general design rules for colloidal crystal engineering with DNA spanning the building blocks and DNA and RNA based programmable bonds that can be utilized in preparing such structures Volume 3 continues the discussion of colloidal crystallization processes and routes to hierarchical assembly featuring dynamic nanoparticle superlattices and lattices prepared on surfaces or via templating strategies and explores what one can uniquely learn from and do with colloidal crystals prepared from nucleic acid functionalized nanomaterials in optics plasmonics and catalysis Volume 4 covers the role of SNAs in biomedicine especially as diagnostic probes both inside and outside of cells and treatments based on gene regulation and immunotherapy Biomimetic Nanomaterials Bing Ni, Zhicheng Zhang, 2025-08-05 An accurate and authoritative discussion of the structure fabrication and applications of biomimetic materials In Biomimetic Nanomaterials Inorganic and Macromolecular Structures Catalytic Processes a team of distinguished researchers delivers an up to date discussion of select emerging topics in nature inspired approaches to biomimetic nanomaterials The authors focus on two core subjects mimicking biological structures and replicating biological functions The book begins with an exploration of bio inorganic structures and biomineralization processes including biominerals and bio inspired architectures like aerogels and chiral nanoparticles It continues on to discuss biomacromolecule based materials and synthetic mimics as well as their structural and functional attributes Finally it covers bio inspired functional materials including nanozymes and catalytic systems for applications like artificial photosynthesis CO2 conversion and N2 fixation Readers will also find A thorough introduction to the foundational concepts and the latest developments in biomimetic nanomaterials Comprehensive explorations of the latest applications of biomimetic nanomaterials including artificial muscles protective coatings and catalytic processes Practical discussions of the structures of biomimetic inorganic nanomaterials like biominerals biomorphs artificial plastic materials and chiral nanoparticles Complete treatments of particularly remarkable uses of biomimetic materials including water splitting catalysis nanozymes Perfect for materials scientists bioinorganic chemists and biotechnologists Biomimetic Nanomaterials will also benefit bioengineers polymer chemists and biochemists Memoirs of the Institute of Scientific and Industrial Research, Osaka University Ösaka Daigaku. Sangyō Kagaku Kenkyūjo,2012 Cumulated Index Medicus ,1998 TectoRNA Fouad Sabry, 2025-03-08 TectoRNA a groundbreaking book within the DNA Nanotechnology series unveils the fascinating world of molecular

engineering and selfassembling systems This book delves into the revolutionary potential of nucleic acids and their applications in the creation of nanostructures with unprecedented precision Whether you re a professional an undergraduate or graduate student or simply an enthusiast this book serves as an essential resource that bridges theoretical principles and cuttingedge applications The cost of this book is far outweighed by the immense value it offers to anyone interested in DNA nanotechnology Chapters Brief Overview 1 TectoRNA An introduction to the role of TectoRNA in building complex nanostructures advancing DNAbased technology 2 Nanoring Focuses on the design and function of DNAbased nanorings and their importance in molecular engineering 3 Selfassembly of nanoparticles Explores how nanoparticles selforganize facilitating breakthroughs in nanotechnology 4 Molecular assembler Discusses the principles and applications of molecular assemblers in nanotechnology 5 Coiled coil Examines the role of coiled coils in stabilizing structures at the molecular level 6 DNA origami Delves into the techniques used to fold DNA into complex shapes and structures for various applications 7 Nanoruler Describes how DNA nanotechnology can be applied in precise measurement and regulation at the nanoscale 8 DNA nanotechnology A comprehensive look at the foundational principles and modern advancements in DNA nanotechnology 9 M13 bacteriophage Investigates the unique properties of M13 bacteriophages in the context of nanotechnology 10 Spherical nucleic acid Explains the novel concept of spherical nucleic acids and their potential applications in molecular design 11 Macromolecular cages Details how DNA can be utilized to create cages for encapsulating molecules and drug delivery 12 Nucleic acid design Focuses on the creation and optimization of nucleic acid structures for various scientific purposes 13 Nucleic acid tertiary structure Discusses the complex threedimensional structures formed by nucleic acids 14 RNA origami Expands on the principles of RNA origami showcasing how RNA can be folded into complex shapes 15 Selfassembling peptide Describes how peptides selfassemble into functional nanostructures playing a role in biomedicine 16 Nucleic acid secondary structure Explores the significance of secondary structures in nucleic acids and their biological functions 17 Nadrian Seeman Honors the contributions of Nadrian Seeman to the field of DNA nanotechnology and its evolution 18 Selfreplication Examines the potential for selfreplicating molecular systems in advancing nanotechnology 19 Robert Dirks Highlights the contributions of Robert Dirks in the development of DNA nanotechnology 20 Holliday junction Discusses the role of the Holliday junction in genetic recombination and its implications in nanotech 21 Tetraloop Explores the structure and function of tetraloops in nucleic acid folding and stability TectoRNA offers readers a deep dive into the intersection of biology and technology presenting an invaluable collection of insights and practical knowledge that will inspire anyone working with DNA nanotechnology This book s comprehensive coverage of cuttingedge topics ensures that it remains an essential resource for anyone in the field TectoRNA Fouad Sabry, 2025-03-23 TectoRNA is a groundbreaking book that takes readers deep into the world of DNA nanotechnology focusing on the remarkable potential of TectoRNA and its applications in molecular biology and nanoscience Through 21 insightful chapters this book explores key concepts

cuttingedge research and practical implementations offering readers a comprehensive understanding of DNAbased nanotechnology Chapters Brief Overview 1 TectoRNA Introduces the TectoRNA concept detailing its structure and role in DNA nanotechnology 2 Selfreplication Explores the fascinating process of DNA replication and its applications in molecular devices 3 Molecular assembler Delves into the creation of molecular assemblers pivotal for constructing DNAbased machines 4 Coiled coil Examines the coiled coil motif a crucial structure in the design of DNAbased nanomaterials 5 Nanoruler Investigates the development of a DNAbased nanoruler essential for measuring molecular distances 6 M13 bacteriophage Discusses the M13 bacteriophage and its importance in DNA nanotechnology 7 DNA origami Introduces DNA origami showcasing its role in constructing complex threedimensional DNA structures 8 Holliday junction Explores the Holliday junction a pivotal intermediate in DNA recombination and its use in nanodevices 9 Tetraloop Focuses on the tetraloop a short DNA sequence and its structural implications in molecular design 10 Nucleic acid design Covers the principles behind designing functional nucleic acid sequences for nanotechnology 11 Molecular models of DNA Discusses molecular modeling techniques for visualizing and designing DNA structures 12 Selfassembling peptide Explores selfassembling peptides and their integration into DNAbased nanotechnology 13 Nucleic acid tertiary structure Investigates the complex folding patterns of nucleic acids and their role in nanostructures 14 DNA nanotechnology Provides an overview of the field of DNA nanotechnology its challenges and its vast potential 15 Nucleic acid secondary structure Explores the secondary structure of nucleic acids essential for functional DNA designs 16 Nadrian Seeman Highlights the work of Nadrian Seeman a pioneer in DNA nanotechnology and TectoRNA 17 Spherical nucleic acid Discusses spherical nucleic acids their properties and their application in diagnostics 18 Selfassembly of nanoparticles Explores the selfassembly processes of nanoparticles key to advancing nanotechnology 19 Robert Dirks Focuses on Robert Dirks contributions to the field of DNA nanotechnology and his work on TectoRNA 20 RNA origami Introduces RNA origami extending the principles of DNA origami to RNA structures 21 Macromolecular cages Examines the design and use of macromolecular cages in DNAbased nanotechnology TectoRNA is not just for students and researchers it s a mustread for professionals enthusiasts and hobbyists interested in the rapidly evolving field of DNA nanotechnology Whether you re an undergraduate graduate or a seasoned professional the knowledge within these pages will elevate your understanding and spark new ideas The book offers comprehensive insights into key concepts making it an invaluable resource for anyone passionate about advancing science The Handbook of Nanomedicine Kewal K. Jain, 2017-03-20 Nanomedicine is defined as the application of nanobiotechnology in clinical medicine which is currently being used to research the pathomechanism of disease refine molecular diagnostics and aid in the discovery development and delivery of drugs In The Handbook of Nanomedicine Third Edition Prof Kewal K Jain updates reorganizes and replaces information in the comprehensive second edition in order to capture the most recent advances in this dynamic field Important components of nanomedicine such as drug delivery via nanobiotechnology and

nanopharmaceuticals as well as nanooncology where the greatest number of advances are occurring are covered extensively As this text is aimed at nonmedical scientists pharmaceutical personnel as well as physicians descriptions of the technology involved and other medical terminology are kept as clear and simple as possible In depth and cutting edge The Handbook of Nanomedicine Third Edition informs its readers of the ever growing field of nanomedicine destined to play a significant role Bionanotechnology: Engineering Concepts and Applications Jie Chen, Yiwei Feng, Scott in the future of healthcare MacKay, 2022-05-06 Understand the principles practices and applications of bionanotechnology This hands on textbook covers key aspects of bionanotechnology from an engineering perspective The book delves into a wide variety of topics including materials science micro nano fabrication general physics fluid flow electromagnetics thermodynamics molecular biology immunology biochemistry and organic chemistry Developed from an advanced engineering course taught by its authors Bionanotechnology Engineering Concepts and Applications fully explains all of the underlying concepts and shows how that theory can be directly applied in practical applications Readers will get examples problem sets real world case studies and engineering design methodologies that illustrate each concept The book contains complete discussions on microfluidics lab on a chip devices organ on a chip devices quantum dots DNA RNA technology micro nano fabrication techniques the modelling simulation of microsystems and bionanotechnology based biosensors targeted therapies and drug delivery systems Combines many different bionanotechnology topics into one resource Based on a course developed and taught by the authors at the University of Alberta Written by recognized experts and experienced educators **DNA Nanotechnology** Thimmaiah Govindaraju, 2019-01-30 Nucleic acids have structurally evolved over billions of years to effectively store and transfer genetic information In the 1980s Nadrian Seeman's idea of constructing a 3D lattice from DNA led to utilizing DNA as nanomolecular building blocks to create emergent molecular systems and nanomaterial objects This bottom up approach to construct nanoscale architectures with DNA marked the beginning of a new field DNA nanotechnology contributing significantly to the broad area of nanoscience and nanotechnology. The molecular architectonics of small designer molecules and short DNA sequences through complementary binding interaction engenders well defined functional nanoarchitectures with realistic applications in areas ranging from biology to materials science and is termed DNA nanoarchitectonics This book discusses novel approaches adapted by leading researchers from all over the world to create functional nucleic acid molecular systems and nanoarchitectures Individual chapters contributed by active practitioners provide fundamental and advanced knowledge emanated from their own and others work Each chapter includes numerous illustrations historical perspectives case studies and practical examples critical discussions and future prospects This book can serve as a practical handbook or as a textbook for advanced undergraduate and graduate level students of nanotechnology and DNA nanotechnology supramolecular chemistry and nanoarchitectonics and researchers working on macromolecular science nanotechnology chemistry biology and medicine especially those with an interest in sensors

biosensors nanoswitches and nanodevices diagnostics drug delivery and therapeutics DNA Fouad Sabry, 2025-03-16 The book DNA offers an indepth exploration of DNA within the revolutionary field of DNA Nanotechnology It is an essential resource for professionals students enthusiasts and anyone intrigued by the intersection of molecular biology and nanotechnology With its wellstructured chapters and cuttingedge insights this book not only provides knowledge but also emphasizes the growing importance of DNA in technological and scientific advancements Chapters Brief Overview 1 DNA Introduces the foundational structure and function of DNA explaining its role in life processes and nanotechnology 2 Nuclear DNA Focuses on the organization and functions of nuclear DNA within cells vital for understanding cellular mechanisms 3 Timeline of the history of genetics A chronological review of key genetic discoveries illustrating the evolution of DNA knowledge 4 Complementarity molecular biology Delves into base pair complementarity a principle crucial for DNA structure and molecular interactions 5 Sense molecular biology Explores the sense strand in molecular biology shedding light on genetic encoding 6 Molecular genetics Discusses gene expression and regulation at the molecular level bridging genetics and biotechnology 7 Nucleic acid Introduces the broader category of nucleic acids encompassing both DNA and RNA critical for understanding genetic material 8 Base pair Explains the concept of base pairs and their significance in the structure and function of DNA 9 Nucleic acid hybridization Investigates the process of nucleic acid hybridization pivotal for gene mapping and diagnostics 10 Nucleic acid sequence Details the sequencing of nucleic acids a foundational technique in genetics and biotechnology 11 Central dogma of molecular biology Clarifies the flow of genetic information from DNA to RNA to protein synthesis 12 Gene Focuses on the concept of genes their role in heredity and their impact on biotechnology and medicine 13 Triplestranded DNA Discusses the intriguing phenomenon of triplestranded DNA and its potential applications in nanotechnology 14 Nucleotide Breaks down the building blocks of DNA providing insight into their role in genetic coding 15 History of RNA biology Reviews the development of RNA biology helping understand the broader context of genetic research 16 Palindromic sequence Analyzes palindromic sequences in DNA essential for genetic manipulation and design in nanotechnology 17 Nucleic acid secondary structure Investigates the complex secondary structures of nucleic acids key to their biological function 18 RNA Provides an indepth understanding of RNA's structure function and its relationship with DNA in genetic processes 19 DNA synthesis Covers the process of DNA synthesis vital for biotechnology gene editing and nanotechnology 20 RNA world Explores the hypothesis that early life was based on RNA shaping our understanding of molecular evolution 21 DNA replication Discusses the mechanisms of DNA replication crucial for cellular reproduction and biotechnology With each chapter offering a focused indepth analysis this book is indispensable for anyone aiming to explore the role of DNA in advancing nanotechnology and molecular biology Its content is meticulously structured to enhance understanding making it a valuable resource for professionals students and hobbyists alike Biomolecular Structure Fouad Sabry, 2025-03-14 Biomolecular Structure delves deep into the cuttingedge realm of DNA Nanotechnology exploring the

intricate structures that govern life at the molecular level Aimed at professionals students and enthusiasts alike this book offers a comprehensive understanding of the molecular biology and bioengineering principles vital for advancing nanotechnology Through an indepth exploration of nucleic acids proteins and computational methods this book bridges theoretical knowledge with practical applications Chapters Brief Overview 1 Biomolecular structure Discover the fundamental building blocks of life essential for DNA nanotechnology 2 History of molecular biology Explore the evolution of molecular biology and its role in modern science 3 Biomolecule Understand the significance of biomolecules in the development of nanotechnology 4 Nucleic acid structure determination Learn how scientists decode the complex structure of nucleic acids 5 Biomolecular engineering Dive into the techniques used to engineer biomolecules for various applications 6 Molecular models of DNA Understand the different models that describe DNA s complex molecular structure 7 Nucleic acid secondary structure Investigate the unique secondary structures that play key roles in DNA functions 8 Noncanonical base pairing Explore alternative base pairing mechanisms in nucleic acids 9 Nucleic acid design Discover how scientists design artificial nucleic acids for novel applications 10 Protein biosynthesis Learn about the critical process of protein synthesis in living organisms 11 Nucleic acid quaternary structure Unveil the complex higherorder structures that influence nucleic acid function 12 Protein structure Delve into the molecular architecture of proteins and their implications in biotechnology 13 PSIPRED Understand how PSIPRED predicts protein structures a crucial tool in bioinformatics 14 Nucleic acid structure prediction Learn about the prediction methods that model nucleic acid structures 15 Structural bioinformatics Explore computational methods used to understand biomolecular structures 16 Nucleic acid thermodynamics Gain insight into the thermodynamic principles governing nucleic acid stability 17 Nucleic acid structure Explore the comprehensive study of nucleic acid structures and their functionalities 18 Hoogsteen base pair Investigate the Hoogsteen base pairing a special form of nucleic acid interaction 19 Nucleic acid Examine the essential role of nucleic acids in cellular processes and nanotechnology 20 Nucleic acid tertiary structure Understand the threedimensional structures of nucleic acids 21 Denaturation biochemistry Learn about the denaturation process and its impact on biomolecular function This book is designed to provide readers with a detailed understanding of DNA nanotechnology from foundational structures to advanced computational techniques It not only highlights the theoretical aspects but also offers practical insights that can be applied in research industry and future innovations in molecular engineering Whether you re a professional in the field an undergraduate or graduate student or a hobbyist exploring the world of DNA nanotechnology this book serves as a vital resource that will guide you through the complex yet fascinating world of biomolecular structures **Visions of DNA** Nanotechnology at 40 for the Next 40 Nataša Jonoska, Erik Winfree, 2023-07-04 This open access book provides a unique and state of the art view on DNA nanotechnology with an eye toward future developments Intended as a tribute to Nadrian C Seeman who founded the field of DNA nanotechnology the content is an exciting mixture of technical and non technical

material reviews tutorials perspectives new findings and open questions. The book aims to inspire current researchers to sit back and think about the big picture while also enticing new researchers to enter the field Most of all the book captures voices from a unique moment in time 40 years after the publication of the first paper that envisioned DNA nanotechnology From this vantage point what are the untold stories the unspoken concerns the underlying fundamental issues the overlooked opportunities and the unifying grand challenges What will help us see more clearly see more creatively or see farther What is transpiring right now that could pave the way for the future To address these questions leading researchers have contributed 22 chapters grouped into five sections perspectives chemistry and physics structures biochemical circuits and spatial systems This book will be an important reference point in the field of DNA nanotechnology both for established researchers looking to take stock of the field and its future and for newcomers such as graduate students and researchers in other fields who are beginning to appreciate the power and applicability of its methods Annual Review of Biochemistry Professor of Recent Advances and Issues in Molecular Nanotechnology David E. Musicology John Richardson, D Phil, 1998-06 Newton, 2002-10-30 This book covers an exciting new field involving the manipulation of individual atoms and molecules to produce materials and devices with very precise predictable properties Science John Michels (Journalist), 2012

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