



# Charged Diphenylalanine Nanotubes And Controlled

**Anwar Sunna, Andrew Care, Peter L.  
Bergquist**



## **Charged Diphenylalanine Nanotubes And Controlled:**

**The Road from Nanomedicine to Precision Medicine** Shaker A. Mousa,Raj Bawa,Gerald F. Audette,2019-12-09 The enormous advances in nanomedicine and precision medicine in the past two decades necessitated this comprehensive reference which can be relied upon by researchers clinicians pharmaceutical scientists regulators policymakers and lawyers alike This standalone full color resource broadly surveys innovative technologies and advances pertaining to nanomedicine and precision medicine In addition it addresses often neglected yet crucial areas such as translational medicine intellectual property law ethics policy FDA regulatory issues nano nomenclature and artificial nano machines all accomplished in a user friendly broad yet interconnected format The book is essential reading for the novice and the expert alike in diverse fields such as medicine law pharmacy genomics biomedical sciences ethics and regulatory science The book s multidisciplinary approach will attract a global audience and serve as a valuable reference resource for industry academia and government

**Nanogenerators** Sang Jae Kim,Arunkumar Chandrasekhar,Nagamalleswara Rao Alluri,2020-07-01 This book provides an introduction to nanogenerators which are the newest technological advancement in the field of energy conversion Chapters discuss the physics behind energy conversion using detailed research results and experimental techniques for fabricating triboelectric and piezoelectric devices as well as nanogenerators in the field of biomedicine and the construction of stretchable electrodes for wearable devices

**Peptide Self-Assembly and Engineering** Xuehai Yan,2024-02-09 Peptide Self Assembly and Engineering State of the art research in peptide self assembly with coverage of fundamental aspects of how peptides self assemble and an extensive number of applications Peptide Self Assembly and Engineering Fundamentals Structures and Applications 2V set covers the latest progresses in the field of peptide self assembly and engineering including the fundamental principles of peptide self assembly new theory of nucleation and growth thermodynamics and kinetics materials design rules and precisely controlled structures and unique functions The broad contents from this book enable readers to obtain a systematical and comprehensive knowledge in the field of peptide self assembly and engineering Contributed by the leading scientists and edited by a highly qualified academic and an authority in the field Peptide Self Assembly and Engineering includes information on Emerging areas in peptide assembly such as immune agents bioelectronics energy conversion flexible sensors biomimetic catalysis and more Existing applications in biomedical engineering nanotechnology and photoelectronics including tissue engineering drug delivery and biosensing devices History of peptide self assembly for design of functional materials and peptides unique mechanical optical electronic and biological properties Various solvent conditions such as pH ionic strength and polarity that can affect the structure and stability of peptide assemblies A very comprehensive reference covering the latest progresses in the field of peptide self assembly and engineering Peptide Self Assembly and Engineering is an essential resource for all scientists performing research intersecting with the subject including biochemists biotechnologists pharmaceutical chemists protein chemists materials

scientists and medicinal chemists **Peptides and Peptide-based Biomaterials and their Biomedical Applications** Anwar Sunna, Andrew Care, Peter L. Bergquist, 2017-10-26 Solid binding peptides have been used increasingly as molecular building blocks in nanobiotechnology as they can direct the assembly and functionalisation of a diverse range of materials and have the ability to regulate the synthesis of nanoparticles and complex nanostructures Nanostructured materials such as sheet fibril forming peptides and helical coiled coil systems have displayed many useful properties including stimulus responsiveness modularity and multi functionality providing potential technological applications in tissue engineering antimicrobials drug delivery and nanoscale electronics The current situation with respect to self assembling peptides and bioactive matrices for regenerative medicine are reviewed as well as peptide target modeling and an examination of future prospects for peptides in these areas

**Peptide Materials** Carlos Aleman, Alberto Bianco, Mariano Venanzi, 2013-03-29 Peptides are the building blocks of the natural world with varied sequences and structures they enrich materials producing more complex shapes scaffolds and chemical properties with tailorable functionality Essentially based on self assembly and self organization and mimicking the strategies that occur in Nature peptide materials have been developed to accomplish certain functions such as the creation of specific secondary structures  $\alpha$  or  $310$  helices  $\beta$  turns  $\beta$  sheets coiled coils or biocompatible surfaces with predetermined properties They also play a key role in the generation of hybrid materials e g as peptide inorganic biomineralized systems and peptide polymer conjugates producing smart materials for imaging bioelectronics biosensing and molecular recognition applications Organized into four sections the book covers the fundamentals of peptide materials peptide nanostructures peptide conjugates and hybrid nanomaterials and applications with chapters including Properties of peptide scaffolds in solution and on solid substrates Nanostructures peptide assembly and peptide nanostructure design Soft spherical structures obtained from amphiphilic peptides and peptide polymer hybrids Functionalization of carbon nanotubes with peptides Adsorption of peptides on metal and oxide surfaces Peptide applications including tissue engineering molecular switches peptide drugs and drug delivery Peptide Materials From Nanostructures to Applications gives a truly interdisciplinary review and should appeal to graduate students and researchers in the fields of materials science nanotechnology biomedicine and engineering as well as researchers in biomaterials and bio inspired smart materials

**Functional Nanomaterials for Regenerative Tissue Medicines** Mariappan Rajan, 2021-12-08 This book covers nanomaterials in tissue engineering for regenerative therapies of heart skin eye skeletal muscle and the nervous system The book emphasizes fundamental design concepts and emerging forms of nanomaterials in soft and hard tissue engineering FEATURES Fills a gap in the literature related to the application of nanomaterials in hard and soft tissue regeneration repair and restructure Discusses a variety of applications including cardiac kidney liver bone wound healing artificial organs and dental Presents advantages and limitations of various nanomaterials alongside future challenges Functional Nanomaterials for Regenerative Tissue Medicines is essential for academics and industry professionals working in

tissue engineering biomedicine biopharmaceuticals and nanotechnology It is primarily intended for materials researchers to develop the platforms related to tissue regeneration as well as clinicians to learn and apply nanomaterials in their practice and industrial scientists to develop commercial blood substitute products **Handbook of Nanophysics** Klaus D.

Sattler,2010-09-17 Intensive research on fullerenes nanoparticles and quantum dots in the 1990s led to interest in nanotubes and nanowires in subsequent years Handbook of Nanophysics Nanotubes and Nanowires focuses on the fundamental physics and latest applications of these important nanoscale materials and structures Each peer reviewed chapter contains a broad

**Characterization and Utilization of Self-assembled Diphenylalanine Nanotubes** Kairuo Xu,2011 Diphenylalanine FF peptide is the core recognition motif of amyloid polypeptide a peptide associated with diseases such as Alzheimer s and which is known to be capable of self assembly FF has attracted interest in nanotechnology due to the physical and chemical stability and mechanical rigidity of the self assembled nanotube form of the peptide A number of promising applications of FF nanotubes have previously been explored To extend this work to biomedical and pharmaceutical areas an improved understanding of the physicochemical properties of FF tubes together with the influence of assembly conditions cytotoxicity properties and potential in drug delivery field are presented in this thesis The studies presented in Chapter 2 address the self assembly of FF peptide prepared by two known methods of preparation one aqueous based the other utilizing an organic solvent A range of complementary characterization methods is applied including atomic force microscopy scanning electron microscopy focused ion beam scanning electron microscopy X ray powder diffraction and Raman Spectroscopy The investigations reveal differences in morphology of the tubes formed by the different preparation methods The aqueous based method produces tubes that are long straight and unbranched and are consistent with previous work The alternative organic solvent method produced tubes that are shorter and narrower In addition these tubes displayed flexibility and nucleation points Following on from these findings a proposed mechanism of tube growth is discussed Chapter 3 further extends the investigation to the biological field Possible cytotoxicity issues are studied using a MTT assay on a HeLa cell line Moreover total internal reflection microscopy was applied to investigate HeLa cell behaviour in the presence of FF nanotubes The results from these studies reveal that the nanotubes and FF peptide do not cause any mitochondrial related damage to HeLa cells Furthermore short tubes were observed to be taken up by cells through a suggested macropinocytosis pathway Finally in Chapter 4 the focus turns to the investigation of the potential of FF tubes as drug carriers in drug delivery Here successful synthesis of drug loaded FF tubes is presented with two model drugs The physical characterization of the complex formed under different conditions using scanning electron microscopy reveals FF nanotube self assembly is a drug concentration and solvent type dependent process Finally in vitro drug release from FF nanotubes is performed and compared to that of the drug alone Extended drug release is observed for both drug candidates and release mechanisms are proposed The results presented throughout this thesis demonstrate the versatility of self assembling FF peptides for the formation of tubular

nanostructures with different morphologies and physical properties under different conditions The assembled nanostructures appear non toxic to cells and offer promise in drug delivery as novel drug carriers Investigating the Structure and Properties of Diphenylalanine Nanotubes Kai Lu,2010 **Investigation of Physical Properties of Diphenylalanine Peptide Nanotubes Having Different Chiralities and Embedded Water Molecules** ,2018 Stability of Diphenylalanine Peptide [i.e. Peptide] Nanotube Studied by Molecular Dynamics Simulation Haiqing Zhao,2012

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