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DNA Switches and Machines - DNA in Supramolecular ...

It thus brings together the toolbox of supramolecular chemistry with the predictable and programmable nature of DNA. The result of this molecular partnership is a variety of hybrid architectures, that expand DNA assembly beyond the boundaries of Watson-Crick base pairing into new structural and functional properties.

Supramolecular DNA assembly - Chemical Society Reviews ...

DNA hybridization is arguably the most studied and best understood natural

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supramolecular interaction, but hybrid systems that combine synthetic supramolecular polymers with DNA-based assembly have only recently been reported.

Functionalization of DNA-Dendron Supramolecular Fibers and ...

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.

Structure and Stabilization of CGC+ Triplex DNA - DNA in ...

Supramolecular chemistry is the domain of chemistry concerning chemical systems composed of a discrete number of molecules. The strength of the forces responsible for spatial organization of

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the system range from weak intermolecular forces, electrostatic charge, or hydrogen bonding to strong covalent bonding,...

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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.

DNA-Functionalized Supramolecular Polymers: Dynamic ...

The canonical DNA triplex structure is generally formed between an oligonucleotide and a homopurine-homopyrimidine duplex. The third strand (triplex-forming oligonucleotide (TFO)) binds in the major groove of the duplex

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and forms hydrogen bonds with the hydrogen bond donor and acceptor groups available on the major groove edge of the purine bases.

Supramolecular Nucleic Acid Chemistry | Frontiers Research ...

Entdecken Sie "DNA in Supramolecular Chemistry and Nanotechnology" von Guido H. Clever und finden Sie Ihren Buchhändler. 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 versatil

Supramolecular Chemistry with DNA - Macrocyclic and ...

Summary DNA is one of the most predictable and programmable self-assembling molecules. This Chapter will focus on an emerging research area at the interface of DNA nanotechnology and supramolecular...

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Supramolecular assembly - Wikipedia

Moreover, single or multiple DNA restriction enzyme sites could be incorporated into the hydrogels by sequence design and greatly expand the latitude of their responses. Compared with most supramolecular hydrogels, these DNA cross-linked hydrogels could be relatively strong and easily adjustable via sequence variation,...

DNA in Supramolecular Chemistry and Nanotechnology ...

DNA switches and machines are expected to provide effective scaffolds for programmed synthesis by the dictated stimuli-triggered interactions of chemical reactants. DNA in Supramolecular Chemistry and Nanotechnology

DNA as a supramolecular building block - Phys.org

Indeed, the high fidelity and programmable molecular recognition

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properties of DNA have long been the source of inspiration to many a supramolecular chemist in designing molecular assemblies that are both discrete in shape and dynamic in nature.

Dna In Supramolecular Chemistry And

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.

DNA in Supramolecular Chemistry and Nanotechnology von ...

Specific carbohydrate recognition in biology is a dynamic process. Thus, supramolecular multivalent scaffolds with dynamic features have been

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applied to mimic this process. Herein, we prepared DNA-dendron supramolecular fibers and synthesized carbohydrate-oligonucleotide conjugates (C18-mannose). Via DNA hybridization, the C18-mannose could be guided onto the fiber platform and form multiple ...

Supramolecular Hydrogels Based on DNA Self-Assembly ...

DNA as a supramolecular building block. PhD student Willem Noteborn has investigated supramolecular structures. These can be useful for the loading of medicines and signalling molecules regarding, for example, cellular differentiation. In his thesis, he describes the functioning of these structures.

Supramolecular Chemistry with DNA - Macrocyclic and ...

DNA in Supramolecular Chemistry and Nanotechnology. This book covers the emerging topic of DNA nanotechnology and DNA supramolecular chemistry in its broader sense. By taking DNA out of its

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biological role, this biomolecule has become a very versatile building block in materials chemistry, supramolecular chemistry and bio-nanotechnology.

DNA in Supramolecular Chemistry and Nanotechnology | Wiley ...

DNA is one of the most predictable and programmable self-assembling molecules. This Chapter will focus on an emerging research area at the interface of DNA nanotechnology and supramolecular chemistry. This area brings a range of orthogonal interactions to DNA assembly, resulting in new motifs from a minimum number of DNA sequences.

Supramolecular chemistry - Wikipedia

A supramolecular assembly or "supermolecule" is a well defined complex of molecules held together by noncovalent bonds. While a supramolecular assembly can be simply composed of two molecules (e.g., a DNA

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double helix or an inclusion compound), it is more often used to denote larger complexes of molecules that form sphere-, rod-, or sheet-like species.

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Our Researches focus on DNA nanotechnology, Supramolecular self-assembly, Exosome, and the Engineered Nanomaterials for biomedical applications, including: Based on the structural similarity, herein, nucleoside analogue therapeutics were integrated into DNA strands through conventional solid-phase synthesis.