**Hybrid nucleic acids as a tool for nanobiotechnology**

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The combination of nucleic acids chemistry (e.g., nucleoside, nucleotides, oligonucleotides) with supramolecular principles provides an efficient and powerful approach to prepare well-defined systems with tunable physico-chemical properties and functions. We develop new nano-systems based on nucleic acids chemistry for i) drug delivery applications (therapeutic, theranostic), and ii) tissue engineering. This communication will present novel “smart” nucleic acid derivatives (nucleolipids, lipid-oligonucleotide conjugates) developed in our lab [1].

**References**

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