



Nucleic Acid Nanotechnology

Guest Editors:

Prof. Dr. Bernard Yurke

Micron School of Materials
Science and Engineering, Boise
State University, Boise, ID, USA

Dr. Reza Zadegan

Department of Nanoengineering,
The Joint School of Nanoscience
and Nanoengineering, North
Carolina A&T State University,
Greensboro, NC 27401, USA

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Message from the Guest Editors

Dear colleagues,

DNA nanotechnology, defined as the field in which the structure of DNA and its supramolecular interactions are exploited to organize and manipulate matter at the nanoscale, provides powerful tools for a variety of fields, such as synthetic biology, drug delivery, photonics, semiconductors, chemistry, biology, molecular computation, and data storage. The power of DNA nanotechnology arises from the simplicity of DNA structure and the predictability of its hybridization chemistry, and grows with advances in DNA synthesis, chemical functionalization and sequencing. Exploiting the combinatorial space of DNA sequences to program hybridization reactions and thereby control self-assembly, a variety of static and dynamic DNA nanostructures have been created. These include mechanical devices, molecular motors, molecular walkers, logic gates that perform in vitro, or in situ, and diagnostic agents (therapeutics and diagnostics). We are pleased to announce that scientifically valid and technically sound papers related to any aspect of nucleic acid nanotechnology will be considered for publication.





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Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, St. Alban-Anlage 66
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