

Special Issue

DNA Nanotechnology for Biosensing and Bioimaging

Message from the Guest Editors

DNA nanostructures can interact with proteins, indigenous DNA and RNA, gold nanoparticles, quantum dots, DNazymes, aptamers, and ions, among other molecules, and dynamically reconfigure to give out a reportable signal. DNA-based nanosystems also exemplify signal transduction from organic to inorganic complexes, signal amplification, and in vitro and in vivo biocompatibility. We welcome research that leverages the versatility of DNA nanotechnology as stand-alone nanosensors or as components that are coupled with physical phenomena such as resonance energy transfer, biological machines such as CRISPR-Cas, or sophisticated engineering in the form of advanced microscopy for biosensing/imaging purposes.

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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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