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DNA Nanotechnology for Biosensing and Bioimaging

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Deadline for manuscript
submissions:

closed (31 August 2021)

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.



mdpi.com/si/58300

Special Issue



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Message from the Editor-in-Chief

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