



Optical Biosensors: Technology, Development and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is devoted to present the current evolution of optical biosensors for the sensitive and specific detection of biomolecules (analytes) taking into account technological and development aspects, such as novel photonic transducers (either based on optical fibers or integrated circuits), signal processing techniques, mathematical and numerical analysis of sensitivity and specificity limits and other sensing characteristics, and innovative fabrication and measurement techniques. Novel classical and quantum principles, advanced materials and metamaterials will also be considered. Finally, it is strongly desirable that the optical biosensors presented and discussed in this Special Issue should exhibit features compatible with the Point-of-Care or Lab-on-a-Chip concepts and visions, and suitable to be used for a number of applications such as medical diagnosis, food safety, environmental control, homeland security, drug discovery, and many others.

Prof. Dr. Hugo Enrique Hernandez-Figueroa
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Message from the Editor-in-Chief

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