



Biosensors State-of-the-Art in Italy

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Message from the Guest Editors

In Italy, biosensors are fast moving from the laboratory stage to the market due to efforts in both the academic and industrial fields. Moreover, the evolution of nanotechnology and nanoscience has played a key role in the design and development of novel nanomaterials and nanodevices that can be applied to the field of biosensors. In this context, the combination of nanotechnology with biochemistry represents an efficient tool in the design of highly sensitive and highly specific biochemical sensors. Among them, optical, electrical, electrochemical, piezoelectric, and their combination are the most studied and promising, since they can be easily integrated with microelectronics in portable biosensing devices that have found applications in medical diagnostics, theranostic systems, environmental monitoring, and food quality control.

This Special Issue focuses on recent progress in the design, fabrication, and applications of biosensors and biosensing technologies in Italy. The aim is not only to summarize the current realities but also to increase the network connections of research groups both in the academic and industrial fields.





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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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