



Label-Free Biosensors and Chemical Sensors

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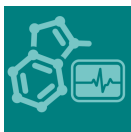
Message from the Guest Editors

Until recently, the employment of labels (radioisotope, fluorescent dyes, enzymes) has been considered as a prerequisite in monitoring biological interactions. While label strategies seem straightforward in biological and chemical sensor technology, they suffer from inherent disadvantages: Impact on labelled molecule bioactivity, variability when tagging different molecules, increased cost, increased assay time, increased complexity for microsystem implementations. Label-free approaches on the other hand, reduce biochemical interaction to the minimum required: Molecule/cell A and molecule/cell B. Owing to this specific advantage, label-free sensors are increasingly being pursued both by researchers and by the relevant industries as an alternative.

The purpose of this Special Issue in “Label-Free Biosensors and Chemical Sensors” is to present the state-of-the-art of this wide field, including all relevant transduction approaches: Optical, electronic, mechanical.

- Label-free assay
- Biosensor
- Chemical sensor
- High-throughput
- Miniaturization





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Message from the Editor-in-Chief

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