Special Issue

Label-Free Biosensors and Chemical Sensors

Message from the Guest Editors

Until recently, the employment of labels (radioisotope, fluorescent dyes, enzymes) has been considered as a pre-requisite 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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About the Journal

Message from the Editorial Board

Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry.

Chemosensors is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

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