Special Issue

Electrochemical (Bio)sensors for Biomarkers Analysis

Message from the Guest Editors

Electrochemical biosensors have gained broad attention over the years, not only due to their inherent sensitivity and specificity, but also because of their potential for portability and amenability to miniaturization. Recent progress in the fields of microfluidics, micro/nanofabrication, as well as development of novel conducting and electroactive polymers, functionalised nanomaterials, bionanoconjugates, and electrodes have paved the way for commercialisation and wide ranging application of electrochemical sensors. The importance of electrochemical sensors for biomonitoring and biomarker analysis in environmental, industrial, agricultural, and above all clinical applications is increasingly being recognised. In clinical settings, electrochemical sensing devices have proven to be specifically helpful for personalised medicine, precision theranostics, as well as minimally invasive diagnostic applications. This Special Issue will focus on recent developments in electrochemical biosensing platforms, especially those that may enable point-of-care and field testing.

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