Special Issue

Electrochemical Sensors in Biological Applications

Message from the Guest Editors

Due to their inherent analytical performance characteristics, electrochemical sensors have attracted more and more attention in recent years, being used as detection tools in various applications, an important role being played by biological ones. The plenty of electrode materials as well as the methods and compounds developed for modifying the sensor surfaces, coupled with appropriate electrochemical techniques ensure the sensitivity and selectivity of the sensors, making them suitable for the detection of analytes from complex matrices like pharmaceuticals, biological fluids, food or environmental samples. On the other hand, as they can be miniaturized and employed in portable instruments, sometimes as disposable electrodes, they are easy-to-use and cost-effective analytical devices enabling on-site, real time, on-line and in-line analysis. Considering all these aspects, electrochemical sensors are often the best choice for the rapid and simple detection of various biological active compounds from different matrices.

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