# Enzyme-Based Biosensors for Biomedical Analysis

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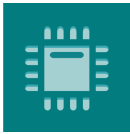## Message from the Guest Editors

Dear Colleagues,

Over the years, scientists have searched for adequate methods to diagnose diseases, following the prognosis of these diseases over time, and understanding the efficiency of the treatment procedures. Biosensors, namely devices incorporating a biological sensing element connected to a transducer for converting an observed response into a measurable signal, have been developed to achieve the better diagnosis and monitoring of diseases. While there are many types of biosensors based on the biological sensing element, enzyme-based biosensors have attracted the attention of the scientific community for their distinct advantages. This type of biosensor, which combines an enzyme to a transducer in order to produce a detectible signal emerging out of a reaction catalyzed by the enzyme, have higher sensitivity and specificity as well as faster response times compared to most traditional analytical methods. Moreover, in practice, portable and cheap enzyme-based biosensors can be designed and they have been extensively used in biomedical analysis by incorporating nanomaterials, microfluidic devices and paper or lab-on-a-chip based infrastructures. This Special Issue, therefore, attempts to focus on this developing and very promising field of biosensing and gathers different studies on enzyme-based biosensors for biomedical analysis.

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*Guest Editors*

**Special** Issue

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