

New Developments for Efficient Rapid Bioassays

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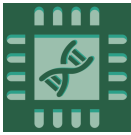
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Message from the Guest Editor

The task of this Special Issue is to present new developments in the field of efficient and rapid bioassays. Actively progressing bioanalytical systems such as membrane test strips, homogeneous kits with the generation of fluorescent signals, and portable electrochemical sensors are of particular interest, but other developing methods are relevant as well. Systems using antibodies and alternative receptors (for example, aptamers) are considered as the basis for new biosensors. It is important to underline that the potential and prospects for the widespread application of new bioassays can be established only after a thorough testing, involving specific and sequential stages. We will welcome works presenting solutions to common difficulties that are being encountered in the achievement of ideal biosensors, focusing on:

- right sample preparation (rapid and complete)
- right receptor molecule (with high affinity and specific)
- right interaction mode (providing fast formation of detected complexes);
- right signal generation (through new markers and amplification tools)
- right information output (multiplexity, automated processing and transfer of data).





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Message from the Editor-in-Chief

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