

Special Issue

Lab on a Chip for High-Throughput Drug Screening

Message from the Guest Editors

The current state of drug-screening methods suffers from increasing costs, a time-consuming nature, and the fact that more than 90% of screened drug candidates fail after entering clinical trials, largely due to the inability to accurately capture human responses in drug screening. Although challenges remain, the development of biosensor technologies and materials offers new opportunities for lab on a chip, which can be adopted in academia and the pharmaceutical industry to benefit drug screening. Importantly, during the drug-screening stage, lab on a chip allows high-throughput testing and flexible automation with miniaturized sizes, low costs, high accuracy and user-friendliness, based on the miniaturization and integration of multiple laboratory functions.

Guest Editors

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Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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