

Lab on a Chip for High-Throughput Drug Screening

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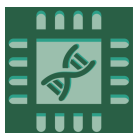
Message from the Guest Editors

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.

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Message from the Editor-in-Chief

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