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Microfluidic Device Fabrication and Cell Manipulation

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Microfluidic devices have been used for biological cell manipulation and analyses for twenty years. Methods for device fabrication and cell-manipulation applications have a relationship with each other. Based on the improved spatial resolution and/or throughput which can be obtained through recent fabrication methods, new approaches to cell manipulation can be suggested. The necessity of cell handling leads to the design of novel microfluidic devices and the application of these devices in the biomedical field, especially in medical treatment, diagnosis, and environmental analyses for improved quality of life.

This Special Issue collects developments in novel microfluidic device fabrication and applications for cell manipulation. Potential topics include, but are not limited to, cell and tissue culture, cell sorting, biomolecular analyses, sensing, systems biology, and cell handling for biomedical applications. Bacterial, fungal (including yeasts), insect, plant, and animal cells are potential subjects, but the Issue's scope is not limited to these.

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Message from the Editor-in-Chief

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