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Microfluidic for Biological Applications

Guest Editor:

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Message from the Guest Editor

Dear colleagues,

Microfluidics is now found in many research laboratories involved in transdisciplinary research combining optics, physics, biology and chemistry. Recent advances towards organ-on-chip, point of care devices, biomaterial synthesis and biological component (proteins, cells) sorting and/or analysis benefit from the advantages provide by microfluidics (well-defined flow, low product consumption, size miniaturization, reduced time of analysis, single particle analysis, high throughput capabilities, integration of several functions). Concerning fabrication, continuous efforts are being made to provide new functionalized, structured (3D printing methods) or biodegradable materials with high biocompatibility within microfluidic devices.

This Special Issue aims to highlight research papers and review articles on recent microfluidic developments for biological applications from DNA to tissue engineering. Particular attention will be paid to papers focusing on a biological issue where microfluidics offers an original and novel approach.

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Message from the Editor-in-Chief

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