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Microsystems for Bio Applications

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Message from the Guest Editor

Dear Colleagues,

Microsystems have extensive applications in biological sciences, from diagnosis to prognosis to characterization. Microsystems, whether lab-on-a-chip or micro total analysis systems or chips with moving structures, have been contributing to the field of bio application, from the protein level to the tissue level to the organism level, in, not only understanding the fundamentals of the interdisciplinarity between engineering and bio science, but also in applying the basic principles for realizing useful devices for various bio applications, such as assays, cellular manipulations and characterization, organs-on-a-chip, bio diagnosis and prognosis, and sensing. Microsystems for bio applications also involves integration of many elements, such as microfluidics, microphotonics, nano materials and structures, and various actuation and sensing mechanisms. This Special Issue will address challenges involved with modeling, fabrication, integration and application of specific issues when microsystems are designed for bio applications.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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