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Microsystems for Cell Cultures

Collection Editors:

Prof. Dr. Iordania Constantinou

Institute of Microtechnology, Technische Universität Braunschweig, 38124 Braunschweig, Germany

Dr. Thomas E. Winkler

Institute of Microtechnology & Center of Pharmaceutical Engineering, Technische Universität Braunschweig, 38106 Braunschweig, Germany

Message from the Collection Editors

Dear Colleagues,

increasingly Microsystems being utilized are biotechnological, biomedical. and pharmaceutical research and development as a replacement for in vitro cell cultures and animal experiments. Platforms such as organon-chip (OoC) can be designed to recapitulate biochemical and biophysical conditions and replicate the natural microenvironment of living cells and tissues. In addition to OoC platforms, microbioreactors have become versatile bioprocess engineering tools used for microbial and mammalian cell cultivation. Such cell culture technologies are often equipped with miniaturized sensors that provide feedback, allow process monitoring and control, and ensure the necessary cell culture conditions maintained. This Special Issue aims to assemble a collection of novel microsystems for cell cultivation. Advances in the areas of system design, sensor integration, as well as target applications are welcome.













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Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

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