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Disposable Lab-on-Chip Systems for Biotechnological Screening

By Stefanie Demming

Shaker Verlag Apr 2011, 2011. Taschenbuch. Book Condition: Neu. Neuware - The main goal of this work was to develop different disposable Lab-on-Chip (LoC) systems for the application of biotechnological screening e.g. for bioprocess development through microorganisms or drug testing with human cell lines. Nowadays, microfluidics represents a highly promising field for the fabrication of microtools, as the increasing demand for screening data are difficult to meet with current platforms. This is mainly due to time and cost aspects as well as a limited amount of newly developed drugs. The ideal microfluidic platform for biotechnological screening should include three different groups of elements: (i) microbioreactors (MBR) in which cultivation takes place; (ii) auxiliary microfluidic systems (for transportation, filtration or mixing), and (iii) enzymatic biosensors for onchip analysis of substrate concentrations which are difficult to measure offline due to small available sample volumes. Within the scope of this work, various horizontally and vertically positioned MBR designs (resembling plug flow reactors, micro stir tanks or bubble columns) were developed, fabricated and successfully applied to the screening of different biological expression systems, such as yeast cells (*S. cerevisiae*), fungal spores (*A. ochraceus*) and primary human endothelial cells. Different integrated functional structures based on...



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