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### Can we improve the process of development, implementation and quality control of cosmetics production?

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#### Abstract

Modern cosmetology delivers to the market specialized products which are very close to Pharma products in the area of cells metabolism regulation. It needs advanced tools for cosmetic development and quality control.

In addition to classic chemical analyses, it is necessary to study the effect of active substances on the viability of cells and the cellular biochemical processes. This is possible thanks to specialized equipment such as automatic, multimode plate readers and High Content Screening imaging systems, which allow performing high-throughput, standardized procedures for testing the cytotoxicity of compounds, quantifying their impact on individual cell metabolism or assessing the quality of starting materials and finished cosmetic preparations. The results of these studies are an important element of admitting a given preparation to the market.

The presentation aims at introducing technologies necessary for the standardization of high-throughput procedures for the study of cytotoxicity of compounds and its biological effectiveness in the process of new cosmetics development. During the presentation efficient systems for high throughput testing which are useful in this area will be presented. We deliver, install systems and train staff responsible for new active compound research in R&D labs.

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