Lecture: 7th cosmetics amendment – can all goals be achieved in time?

High-content cellular imagining approach for *in vitro* toxicology

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High-content cellular imaging (HCI) is increasingly applied to the *in vitro* assessment of toxic compounds. HCI is an automated fluorescent cell-based technology, which allows rapid investigation of cellular effects of chemicals or siRNAs *via* imaging at cellular, sub-cellular and molecular levels of individual cells. The method delivers integrated information on morphology, cell movement, co-localization of different parameters, alteration of patterns and changes in specific pathways. In this presentation, HCI will be introduced by results generated from the Cellomics ArrayScan^{TM} system. Applications for assessing general cellular toxicity as well as specific pathological changes, such as cholestasis in the liver, will be discussed.

Keywords: high-content cellular imagining, in vitro toxicology, cholestasis