evotec

High-Content Image Analysis

FOR FURTHER INFORMATION:

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EVOTEC OFFERS A SOPHISTICATED IMAGING & ANALYSIS PLATFORM, RUN BY HIGHLY EXPERIENCED SCIENTISTS THAT DEVELOP BESPOKE IMAGING-FOCUSED EXPERIMENTS AND IMAGE ANALYSIS STRATEGIES

▶ Automated liquid handling and microscopy systems for High Throughput Screens (HTS)
▶ Automated analysis of "small scale" tissue & cell-based experiments
▶ Team of dedicated image analysis experts working with highly skilled assay development teams to establish robust, sensitive and biologically meaningful readouts

AUTOMATED ANALYSES OF TISSUE SECTIONS
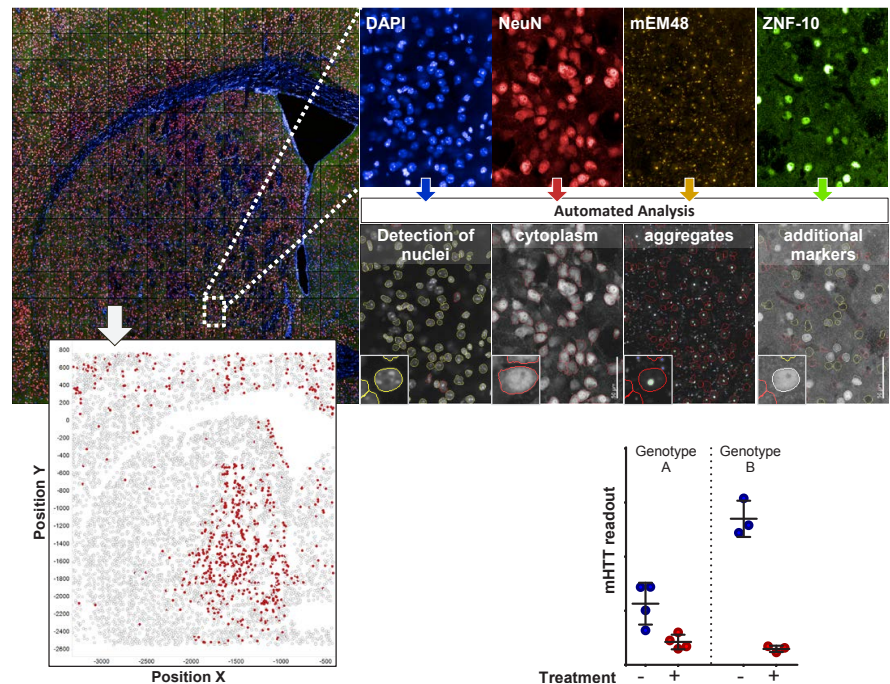
▶ Automated recording of mouse / rat brain sections in multiwell plates
▶ High-Content quantitative analysis of cells & subcellular structures in defined brain regions
▶ Readouts per section or as single-cell results
▶ Multiparametric analyses (e.g. LDA)

HIGH-CONTENT FINGERPRINTING OF STEM CELL DERIVED CULTURES
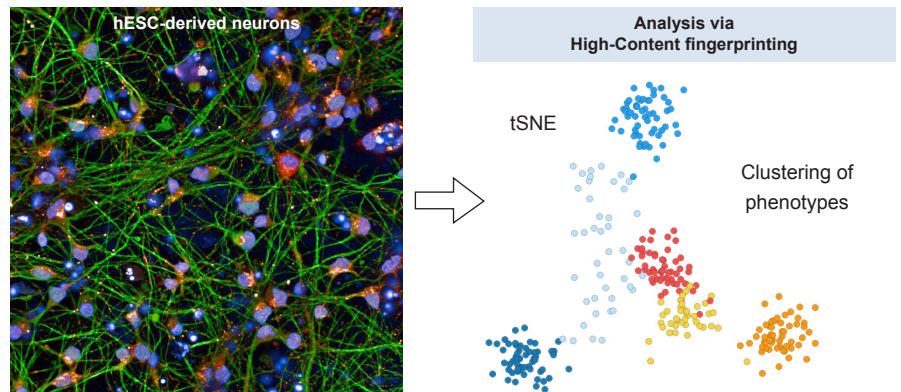
- High-Content fingerprinting ("Cell Painting") reveals subtle cellular signatures based on thousands of phenotypic parameters extracted from High-Content imaging
- Perturbagens (e.g. compounds) can be grouped according to their phenotypic signature, enabling unbiased hypotheses about the underlying biological mechanisms

AUTOMATED ANALYSES OF NEURONAL PRIMARY CULTURES
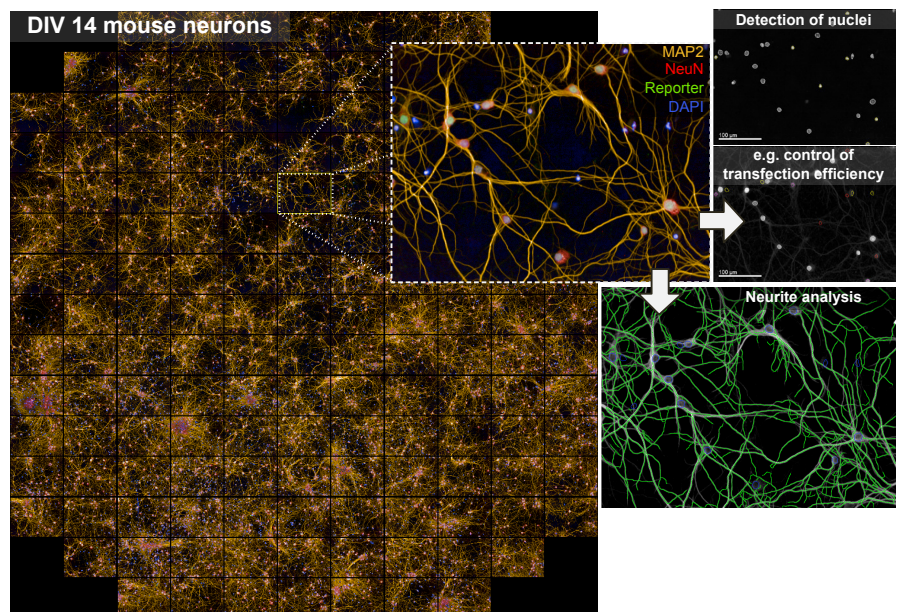
- Automated recording and analysis of primary cultures in microtiter plates
- High-Content quantitative analysis of cellular and subcellular structures
- Investigation of toxicology, e.g. via neurite analysis