

StratoMineR™ for Toxicology

Develop and apply more predictive high content toxicology platforms

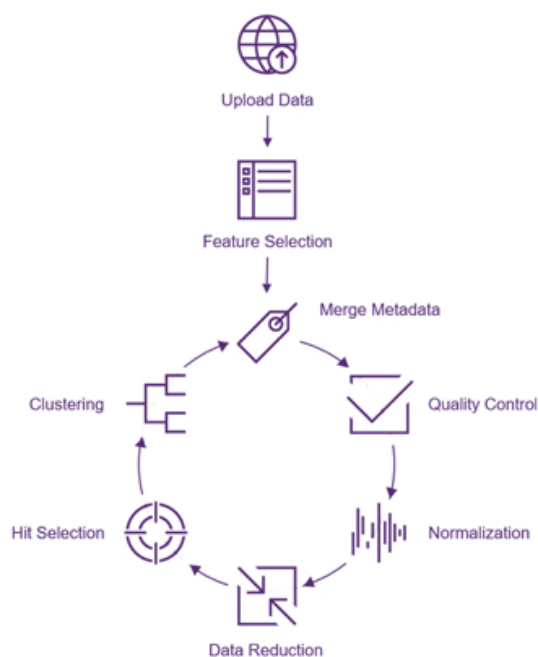
One of the biggest nightmares of a drug development program leader is the emergence of unexpected toxicities in human trials, or worse, after a drug reaches the market. In order to prevent this, there is increasing interest in high content screening (HCS) of physiologically relevant in vitro assay platforms. This approach offers great potential in assessing **pre-clinical toxicity**,

High content toxicology screening

In HCS, automated high throughput microscopy is used to visualize and quantify changes in cell morphology in response to compounds or other treatments. The resulting high resolution, quantitative data output is then analyzed, allowing the user to characterize **complex cellular phenotypes**. These analyses can provide critical insights into mechanisms of toxicity, based on the extent and detail of the data. Such assays have previously been described for commonly investigated forms of toxicity, including hepatotoxicity, genotoxicity, and nephrotoxicity.

Make full use of your HCS data

The outputs of HCS, however, are large and complex datasets, which are often analytically overwhelming. Statistical expertise and computational power are needed, making a lot of the collected data go unused. Our intuitive online data analytics platform, StratoMineR™, guides you through these highly complex data analyses, helping you get the most out of your data and leave no number behind.



The StratoMineR workflow

Why StratoMineR for Toxicology

- **Reduce wait time.** Analyze your own experiments and get results instantly!
- Leverage the full power of your data and make **data-based analysis** decisions, rather than answering simple research questions.
- **Reduce the complexity** of your data, and see the biology emerge.
- Unfettered access to **rich visualizations**.
- Cloud-based, so **no need to invest in expensive hardware and software**.

Curious to see how this works? We used StratoMineR to analyze the publicly available LINCS data set. Read the full app-note here:



Core Life Analytics