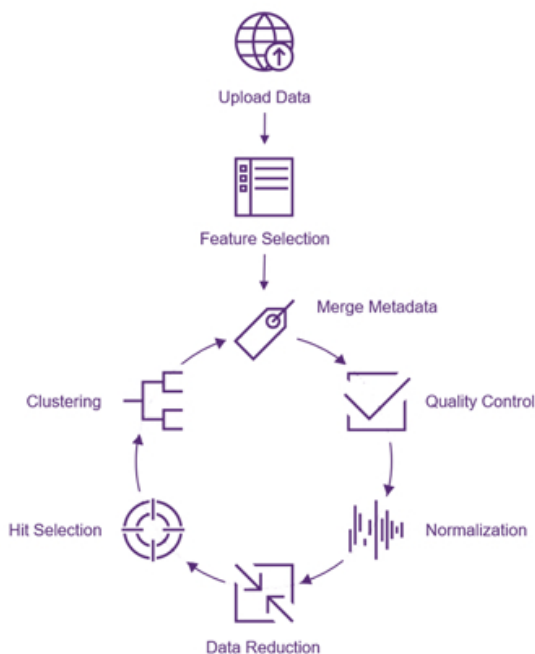# StratoMineR™ for Cell Painting

Analyze your own Cell Painting datasets, even at cellular resolution

Cell Painting is a powerful phenotypic profiling tool. Using six fluorescent dyes - revealing eight cellular components or organelles -, combined with quantitative microscopy, this technique allows users to **characterize rich cellular profiles**. These profiles consist of thousands of features; measures of morphological characteristics, including size, intensity, texture and more. These highly detailed datasets allow detection of subtle phenotypic differences in response to treatments. These datasets, however, are analytically overwhelming and their analysis requires sophisticated data analytics knowledge and tools.
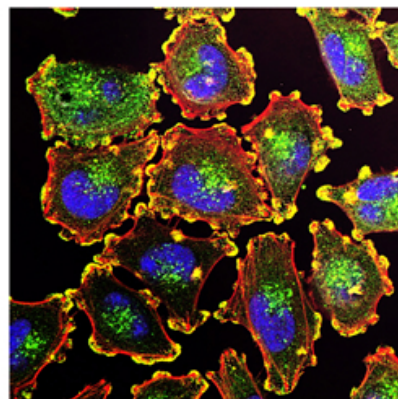
Make full use of your data

StratoMineR is an **intuitive cloud-based data analytics platform**, which guides you through these highly complex analyses, thus allowing you to see the biology emerge from your data. StratoMineR helps you to quickly remove irrelevant features, to perform data reduction and hit picking, and to subsequently cluster these hits based on phenotypic similarities. This information can then be used to gain valuable insights into compounds' mechanisms of action.

The StratoMineR workflow

Why StratoMineR for Cell Painting

• **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