Advanced Data Analytics for High Content Biology

To **unlock the full potential of high content methods,** complex data analyses are needed. These analyses require extensive know-how and sophisticated tools most scientists do not have at their disposal. **StratoMineR™** is a web-based data analytics platform that guides its users through such data analyses, allowing the non-specialists to make full use of the data they generate.

With StratoMineR, you can:

✓ easily remove redundant data and reduce dimensionality;

✓ quickly characterize phenotypic signatures;

✓ leverage the power of AI for unbiased hit picking;

and much more.

Common Applications

Functional Genomics
Use image-derived data to link genetic alterations to phenotypic profiles.

Cell Painting
Determine phenotypic signatures, and correlate them with mechanisms of action

Drug Discovery
Identify compounds with similar mechanisms of action.

Why StratoMineR?

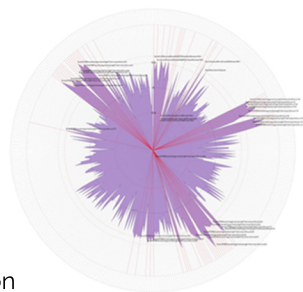## Accelerate Discovery, Mine Your Own Data

StratoMineR's intuitive workflow guides you through complex data analyses. This allows even the non-specialist to make full use of their data independently. No coding or programming required.

Easily Transform Large Datasets to Phenotypic Signatures

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.

Rich Visualizations

StratoMineR offers sophisticated visualization options, such as 3D scatterplots, spider plots, and hierarchical clustering and network graphs, allowing you to quickly see the biology emerge from your data.
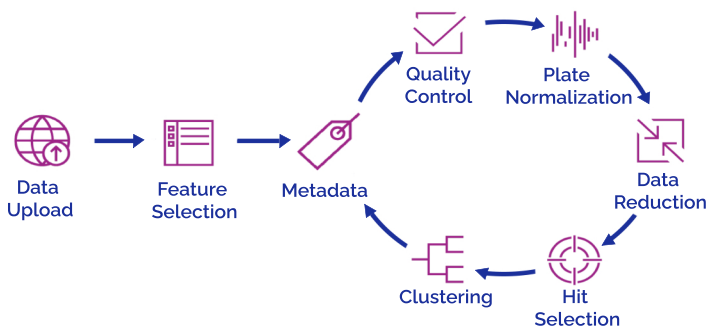
Artificial Intelligence

Use your data to build AI models for hit selection and rapidly identify hits with similar or dissimilar phenotypes.

Training and Support

We offer training sessions to help you get started quickly and easily. Do you need any further support? Just ask, we are here to help.

The Workflow

Data Upload → Feature Selection → Metadata → Quality Control → Plate Normalization → Data Reduction → Hit Selection → Clustering

Curious to learn what StratoMineR can do for your research? Let's have a chat! Contact us at sales@corelifeanalytics.com

Core Life Analytics