

Shiny App for Histone Post-translational Modifications Data Visualization

This Shiny application provides an interactive platform for **loading, filtering, visualizing, and downloading data.**

It is designed to help researchers process peptide-level tables exported from skyline and generate common exploratory plots such as PCA, heatmaps, and barplots.

Features

- **Upload Data**
 - Import table from Skyline
- **Data Filtering**
 - Select or exclude unmodified peptides.
 - Choose samples or peptides of interest interactively.
- **Visualization**
 - **PCA plot** for dimensionality reduction and sample clustering.
 - **Heatmap** for peptide intensity patterns.
 - **Barplots** for selected peptides.
- **Download**
 - Export filtered tables in wide format.

Quick Start

1. Open the `app.R` in RStudio.

Make sure `app.R` and `functions.R`, `ui.R`, and `server.R` are in the same directory.

2. Load required packages.

In the R console, run:

```
1 source("functions.R")
2 depends_check()
```

3. Run the app

Click the **Run App** button in the top-right corner of Rstudio.



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