

# Galileo v2.0 Release Notes

February, 2025

Dear valued users,

We are excited to announce the release of Galileo v2, featuring a complete overhaul and significant enhancements to deliver improved functionality and a seamless user experience. Below are the highlights of the new update:

## Major Enhancements

- Complete Code Rewrite**  
 Rebuilt both the backend and frontend as modular components within an R package, adhering to Golem package guidelines.
- Improved User Interface**  
 Simplified and less cluttered UI design with frequently used buttons hidden in sliding tabboxes for cleaner navigation.



- Optimized Reactivity**  
 Redesigned app reactivity to minimize unnecessary computations, enhancing performance.

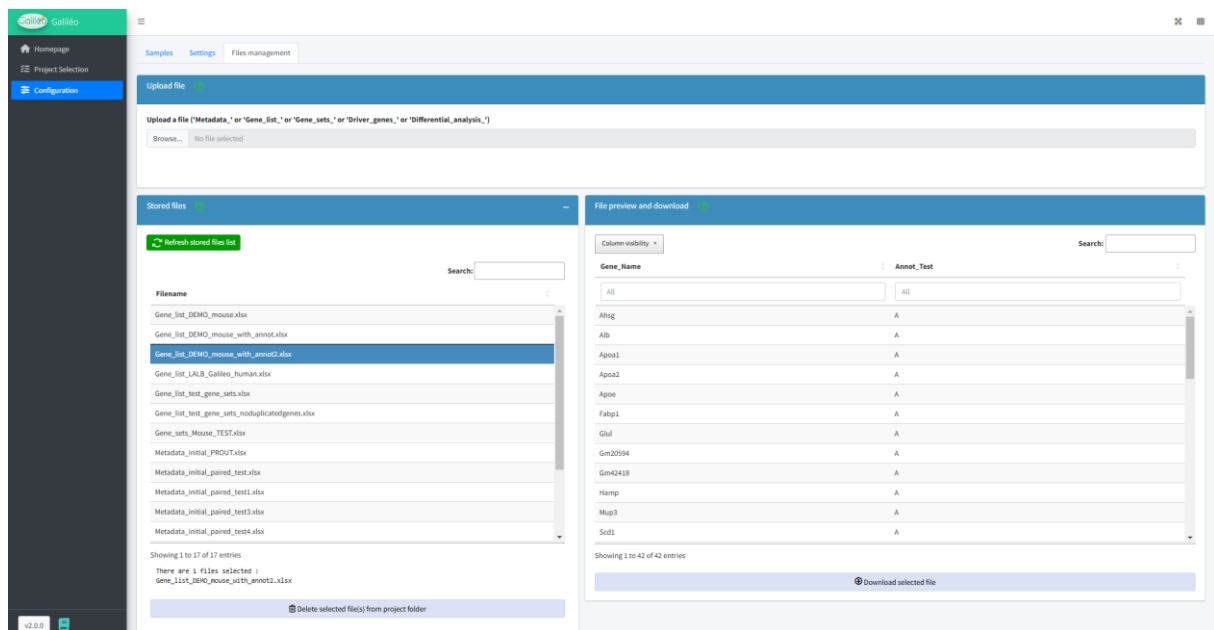
## New Features

- **RNAseq Capture Dataset Compatibility**

Added support for RNAseq capture datasets, broadening the app's data-handling capabilities.

- **File Management Tab**

Introduced a dedicated tab for managing files. This centralized hub facilitates the upload, download, preview, and deletion of internal files such as metadata, gene lists, and gene sets.

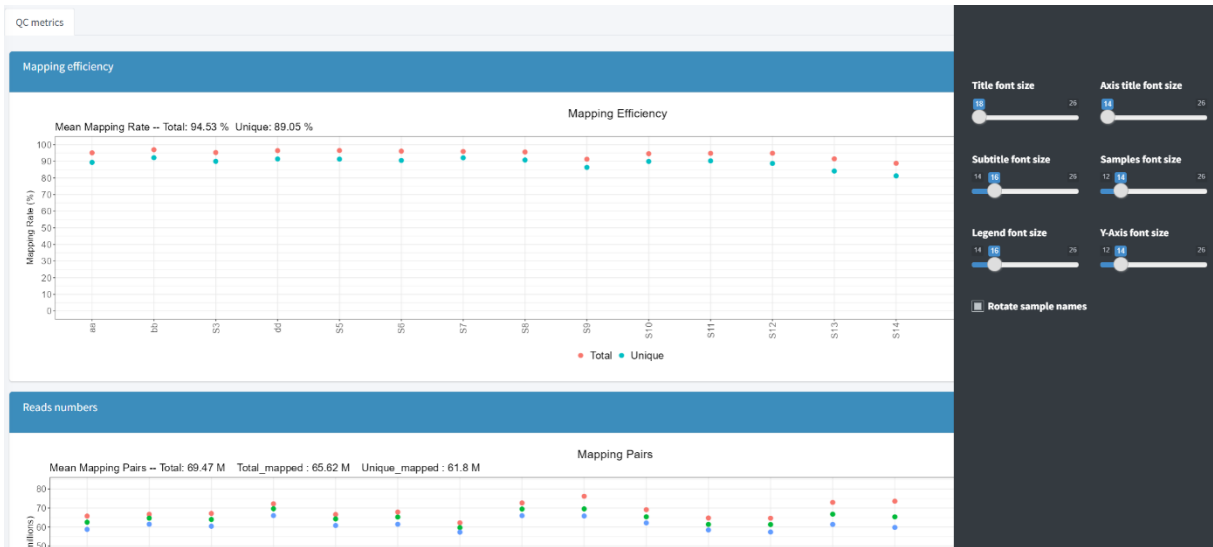


- **Help Documentation Overhaul**

Unified help documentation with standardized designs embedded in box headers for better guidance.

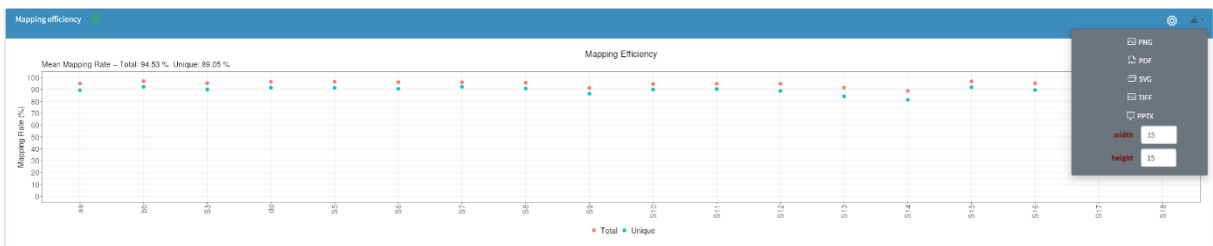
- Plot Customization Toolbar**

Added a lateral toolbar for QC plot customization, making configuration options more accessible.



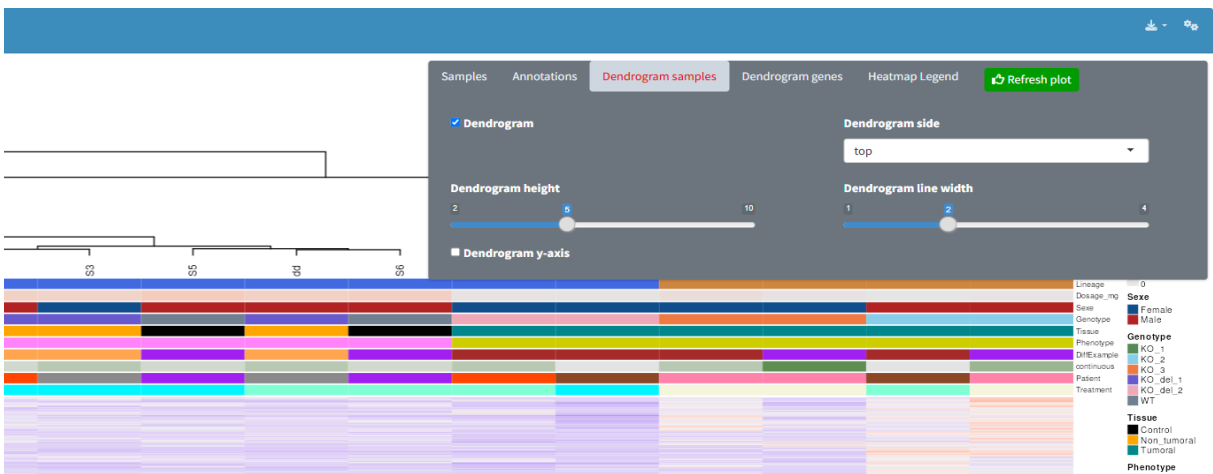
- Enhanced Plot Downloads**

Unified download interfaces now support additional formats, including PNG, SVG, PDF, TIFF, and PowerPoint (PPTX).



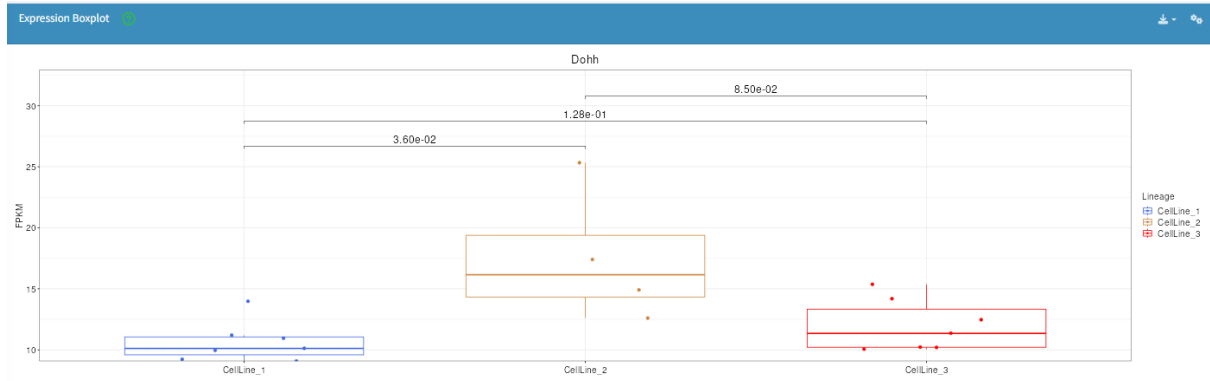
- Expandable Plot Settings**

Plot customization settings moved to sliding tabboxes within box headers, allowing more display space for the plots.



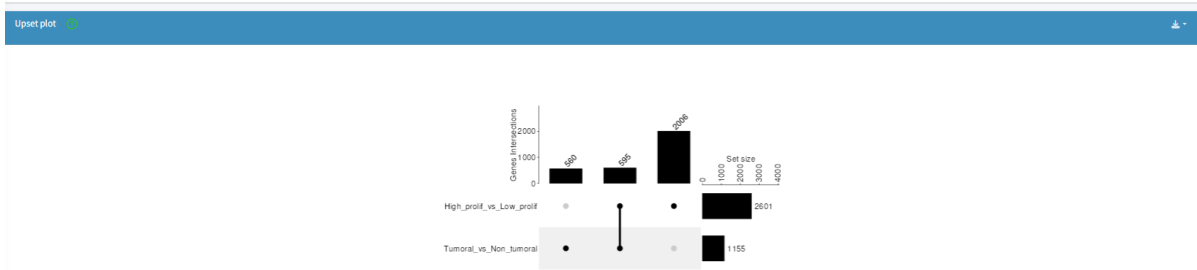
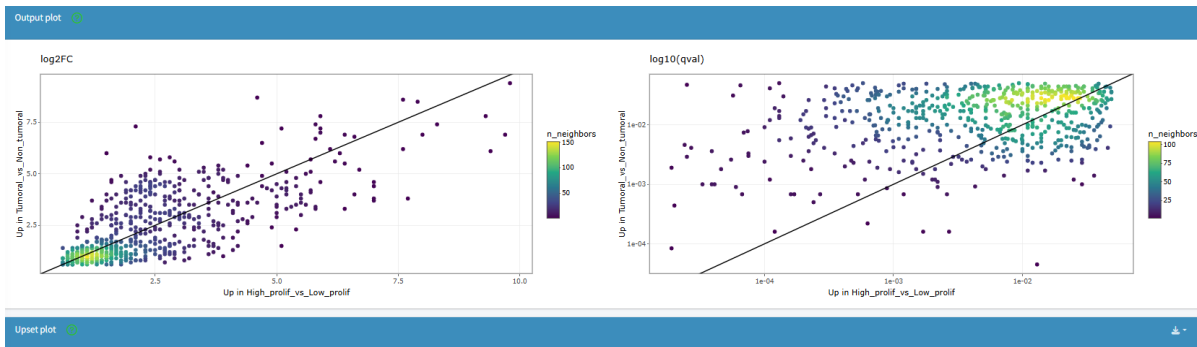
- **Compare differential analysis**

A new tab enables the comparison of two differential analysis tables. It can be used to know the common or specific genes in one table or the other.



- **Display pvalues on boxplots**

Possibility to display the pvalues on boxplots.



## Technical Updates

- **Updated Infrastructure**

Upgraded **R** and **ShinyProxy 3.0** for improved stability and modern functionality.

## **In Conclusion**

This latest release, Galileo v2, represents a significant step forward in our ongoing efforts to create the most user-friendly and efficient tool for biological analysis. We've made numerous enhancements across the platform, all aimed at optimizing your experience and ensuring that you can leverage the full power of our software. We are truly grateful for your continued support and feedback, which have been invaluable in shaping these updates. As always, we remain committed to helping you achieve your research goals, and we look forward to continuing this journey together. Please, explore these new features and improvements at your convenience. We believe they will significantly enhance your Galileo experience. Should you have any questions, require assistance, or wish to share your feedback, our dedicated support team is ready and eager to help.

Thank you for choosing Galileo!

### **The Galileo Development Team**

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