

UniApp quarterly update: Meta-interaction analysis, gene and enhancer lollipop plots, dataset engineering algorithms, improved UI & UX and more

UniApp release note | July 2024

Summer is here, and the Unicle team has been working tirelessly to bring you a wave of exciting updates. Contact us for a live demonstration and to brainstorm how these upgrades could benefit your project!

Key metrics



4 New algorithms

Allowing you to merge, integrate, feature engineer and correlate your datasets



57 deployed upgrades

Upgrades include enhancements for plotting speed, pivot table module stability and label clarity



4 hours

To map your ambitions onto tech possibilities



Maximize benefit

Contact us to learn about these new functionalities and how to leverage them maximally

How to get started



- [Meta-interaction analysis](#)
- [Gene & enhancer lollipop plot](#)
- [Merging](#)
- [Integration](#)
- [Feature engineering](#)
- [Save a new plot](#)
- [Reopen pivot table plot](#)



Find out more on how we accelerate biomedical research on [Unicle.com](https://unicle.com)

New and improved functionality

1

Meta-interaction analysis: Identify and visualize relationships in gene expression between different cell types across multiple datasets using regression lines.

2

Gene and gene enhancer lollipops: Visualize gene structure, variant information, and enhancer binding locations and customize their details using the pivot table.

3

Dataset merging: Effortlessly combine data and metadata from multiple scRNA-seq datasets into one unified dataset.

4

Integration: Remove batch effects from your scRNA-seq dataset for visualization and clustering.

5

Feature engineering: Transform your gene-by-observation matrix into a gene set-by-observation matrix for a gene set-centered analysis of your data.

6

Save a new plot: Save the current customized plot visualization in the interactive plot page as a new plot in your track.

7

Reopen pivot table plot: Reopen exported plots in the pivot table to modify them again.

8

Project-focused landing page: A simplified design for easy exploration of public data portals, Unicle's analysis templates, and quick access to your recent projects.

9

Overall improvements: Improved loading times for GSEA and marker gene results, enhanced color-coding options for pivot table plots, enhanced plot burst functionality.

Outlook next quarter update

1

Data driven project page: We plan to release a project page with an improved UI that enables seamless data-driven storytelling while keeping the scientific narrative of the project as the main focus

2

Rerun analyses: Easily rerun your analyses with updated settings