

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

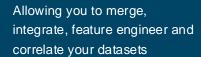
UniApp release note | July 2024

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





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 lolliplot
- Merging
- Integration
- Feature engineering
- Save a new plot
- Reopen pivot table plot



Find out more on how we accelerate biomedical research on <u>Unicle.com</u>

New and improved functionality

- Meta-interaction analysis: Identify and visualize relationships in gene expression between different cell types across multiple datasets using regression lines.
- Gene and gene enhancer lolliplots: Visualize gene structure, variant information, and enhancer binding locations and customize their details using the pivot table.
- Dataset merging: Effortlessly combine data and metadata from multiple scRNA-seq datasets into one unified dataset.
- Integration: Remove batch effects from your scRNA-seq dataset for visualization and clustering.
- Feature engineering: Transform your gene-byobservation matrix into a gene set-by-observation matrix for a gene set-centered analysis of your data.
- Save a new plot: Save the current customized plot visualization in the interactive plot page as a new plot in your track.
- Reopen pivot table plot: Reopen exported plots in the pivot table to modify them again.
- 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.
- 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

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

Rerun analyses: Easily rerun your analyses with updated settings