UniApp Quarterly Update: Trajectory Inference, Interaction analysis, Gene correlation and more

UniApp release note | May 2024

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

Key metrics

5 New algorithms
To analyze your data in more depth and identify novel patterns

15 modules
Upgraded with speed and stability improvements

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

- Gene metadata integration
- Pathway analysis
- GeneCards integration

Find out more on how we accelerate biomedical research on Unicle.com

New and improved functionality

1 **Trajectory inference:** Model gene expression along differentiation trajectories in single cell data

2 **Cell-Cell interaction:** Understand how cell might communicate via receptor-ligand signaling

3 **Gene regulatory networks:** Understand how your genes of interest are regulated by other genes

4 **Gene correlation analyses:** Determine what genes in your dataset have similar expression patterns as your target gene

5 **Gene cards integration:** Explore and quantitatively analyze Genecards data directly via the UniApp

6 **Gene metadata tables:** Upload gene metadata tables such as differential analysis results and integrate with your analysis

7 **Upgrades and bug fixes:** Improved functionality of the pivot table, metadata editor and meta-analysis modules

8 **Speed updates:** Interactive plots now load and update faster. Plot over 250K data points easily

Outlook next quarter update

1 **Concurrent license model:** We plan to release a new licensing model to accommodate smaller and starting laboratories

2 **Documentation and template:** On your request we are creating reference material to inspire and showcase how to use the UniApp

3 **Landing page:** We will update the UniApp landing page to facilitate the exploration of public data portals and Unicle provided analyses templates