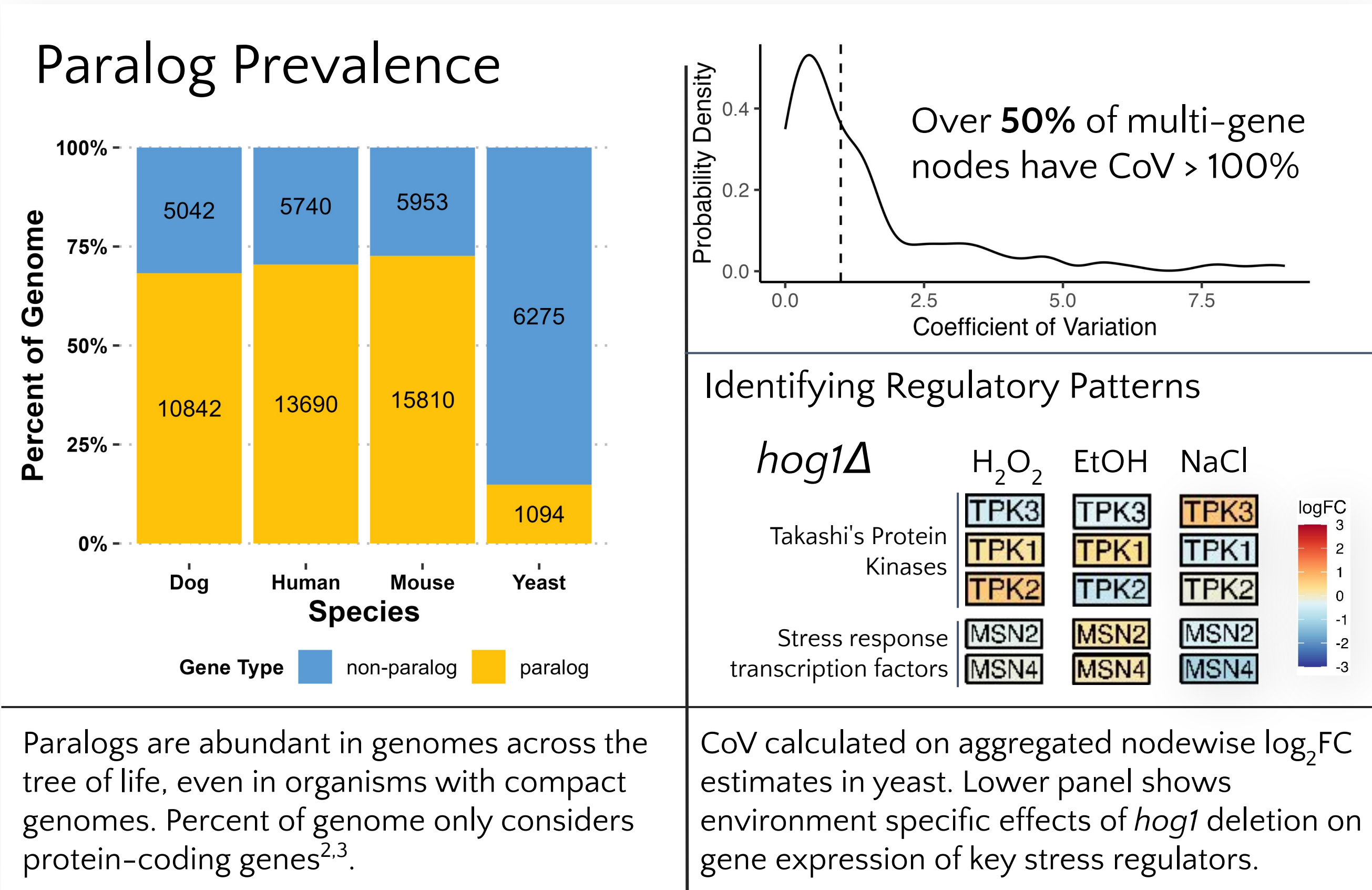


Meaning beyond means: See gene-level responses like never before.

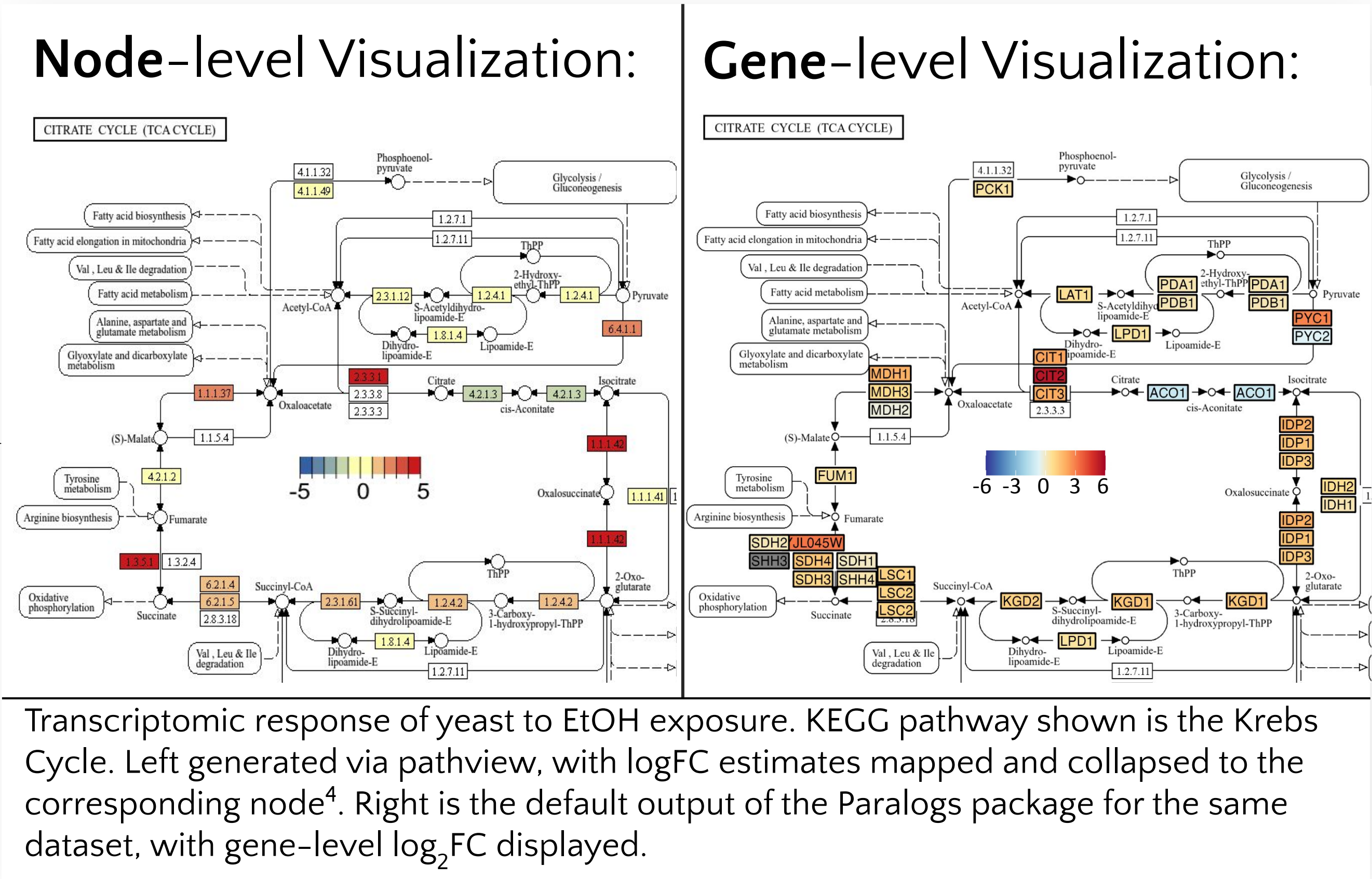
Paralogs: An R Package for Visualizing Differential Paralog Expression in KEGG gene Pathways

Background: Paralogous genes often exhibit diverse functions and regulation. However, current KEGG pathway visualization techniques merge these genes, missing individual responses¹. The *Paralogs* R package introduced here facilitates visualization of these unique expression patterns in context of broader pathway dynamics.

Result 1: Paralogs are everywhere; visualizing their changes produces novel biological insights.



Result 2: Facilitate quick insights into functional pathways of interest, or publication quality figures.



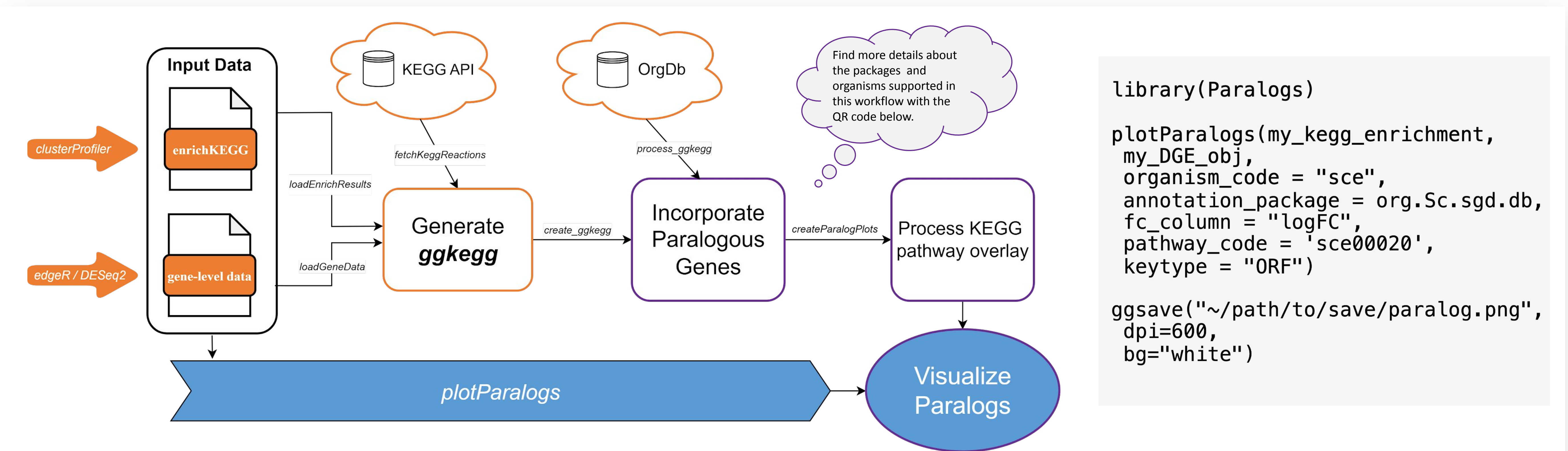
Methods

Integration

Customization

Ease of Use

- 1 Integration with the Bioconductor Ecosystem
- 2 Grammar of Graphics Customizability
- 3 All-In-One Functionality



Limitations: Paralogs has limited functionality, it is made for one job: visualizing paralogs. This tool requires an internet connection to access the KEGG API. Lastly, large complex KEGG pathways are not supported at this time.

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