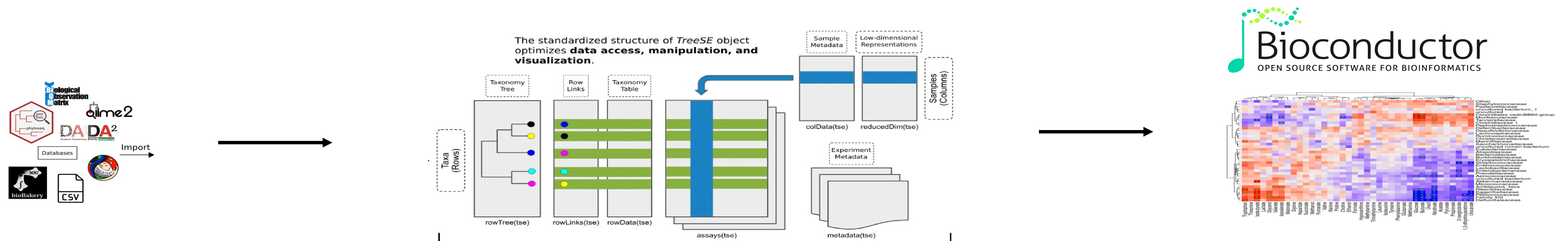


# Statistical programming framework for multi-modal microbiome data integration

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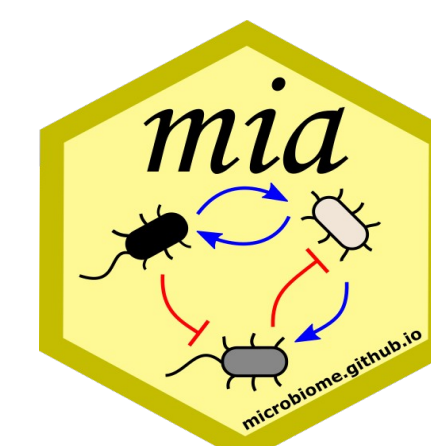
The need to integrate multiple assays and data modalities (e.g. omics) keeps increasing but systematic frameworks for jointly analysing heterogeneous data modalities remain limited.

Bioconductor has a long track record in distributing quality-controlled solutions for statistical programming in many fields of omics and bridging the gap between them.

A dedicated data science framework, *miaverse*, has recently emerged to streamline hierarchical, multi-modal data analyses in microbiome research.

Community-driven development is supported by optimized multi-assay data containers and open data resources from e.g. curatedMetagenomicData, MGnify & ExperimentHub.

Open online resources showcase integrative & optimized microbiome data science workflows based on the new framework.



[microbiome.github.io/OMA](https://microbiome.github.io/OMA)

