# EMIF Deliverable 13.6: Final suite of modules and tools for data analysis, visualisation and linkage of EHR data with omics data

## Executive summary

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Deliverable D13.6 is the final deliverable of WP13 and thus is the summary of our previous deliverables D13.1 ("Evaluation of technologies and tools available for data analysis and visualisation"), D13.2 ("Data analysis tools for vertical projects v1"), D13.3 ("Data analysis and visualisation tools, including workflows for linkage with omics data v1"), D13.4 ("Data analysis tools for vertical projects v2") and D13.5 ("Data analysis and visualisation tools, including workflows for linkage with omics data v2").

Deliverable D13.6 is also "proof of principle" where the software proposed and developed in previous deliverables is deployed in a real research project: "Metabolomic biomarkers for Alzheimer's disease" with great success. This validates the selection of components in the final suite of modules and tools for data analysis, visualisation and linkage of EHR/clinical data with omics data. We believe this has much potential for future projects.

Through this work, we demonstrate two critical aspects of the final suite:

- tranSMART, where EHR/clinical cohorts are collected and unified from a terminology perspective;
- "Multi-omics Research Environment", a Cloud research environment, needed to perform analytical tasks.
- Deliverable D13.6 consists of two parts:
- Brief description of the research project "Metabolomic biomarkers for Alzheimer's disease" where EMBL-EBI collaborated with EMIF-AD vertical;
- Final remarks about software components that were used to achieve this multi-omics research project's goals.

## Contacts

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