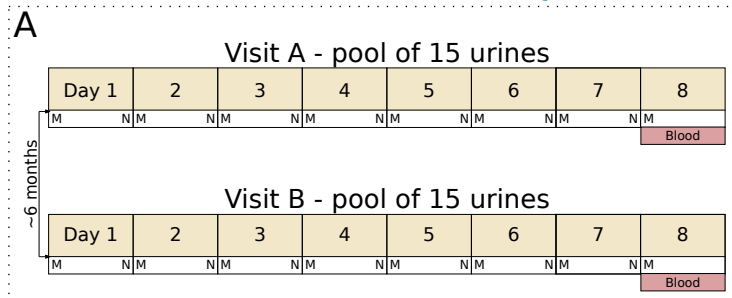


Study design



Data collection

B Exposure assessment



Urine samples
(weekly pool)

- Organophosphate (OP) pesticides
- Phenols
- Phthalates

C Omics



Blood samples

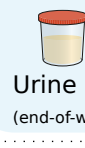
Blood DNA methylation
Illumina 450K



Plasma proteins
Luminex assays



Serum metabolites
AbsoluteIDQ p180



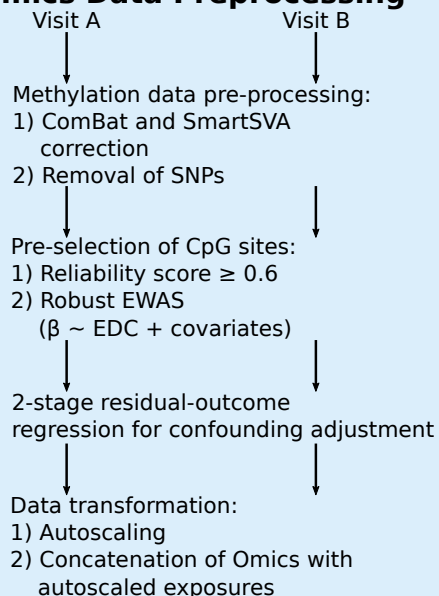
Urine samples
(end-of-week pool)

Urine metabolites
¹H NMR

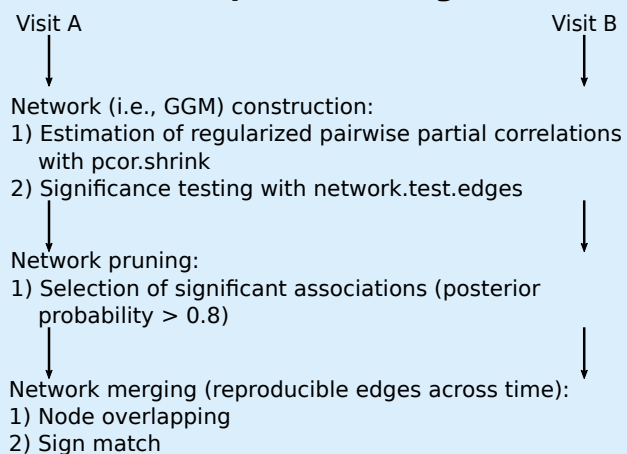


D Multi-omics Exposures Networks

Omics Data Preprocessing



Omics-Exposures Integration

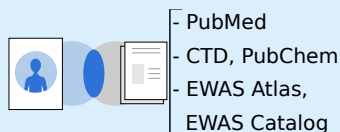


Visualization



Functional biological insights

Literature overlap
(exposure-omic associations)



Bootstrapping on the reproducible associations