Standardize Data

Glucose 0.10 0.10 3.20 0.52 0.10 2.30 1.00 Serine 0.34 8.02 1.43 0.99 2.32 1.00 0.74

Imputation: minimum measured value

Normalization: median normalize

Assemble Pan-Cancer Data

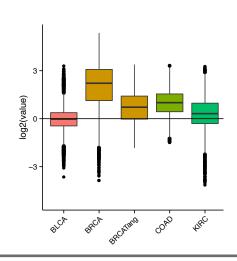
Pubchem KEGG HMDB CHEBI Glucose 5793 C0031 HMDB00122 NA

Map metabolite IDs: CHEBI, Pubchem, KEGG, HMDB

Merge metabolites across studies

Study-by-Study Analysis

Tumor/Normal Comparison



Meta-Analysis of Cancer Types

Recurrent Metabolic Alterations and Clinical Data Analysis

