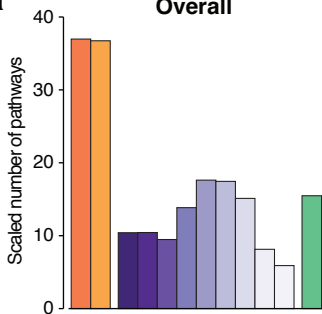


a**Overall****Pathway scoring method**

Pascal

Chi-square

Empirical

Parameter-free

Hypergeometric (MAGENTA)

20%

15%

10%

5%

2%

1%

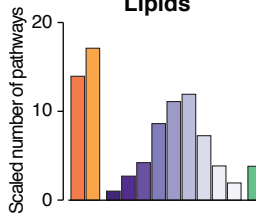
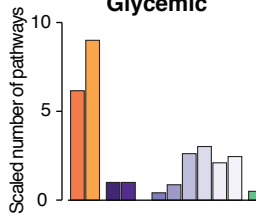
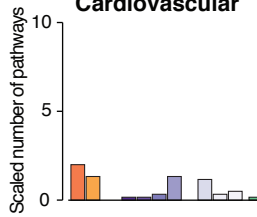
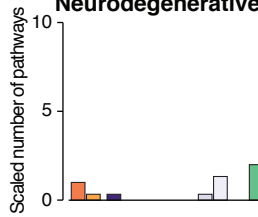
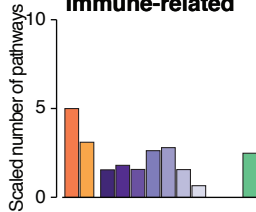
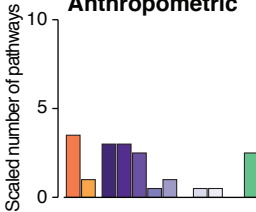
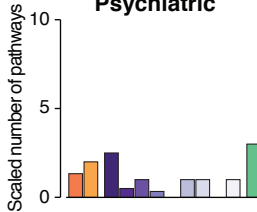
0.5%

0.25%

0.1%

Cutoff parameter (fraction of genes considered significant)

Wilcoxon rank-sum test

b**Lipids****Glycemic****Cardiovascular****Neurodegenerative****Immune-related****Anthropometric****Psychiatric****Others**