

countH_Pseudo_Perm: The Hotelling's T^2 with pseudo inverse of correlation matrix and permutation p-value.

countG: The global test.

countG_Perm: The global test with permutation p-value.

countGlobalAncova: The global ANCOVA test with permutation p-value.

countN_Perm: The energy test(N-statistic) with permutation p-value.

countGSEA_Category: The GSEA-like test(in Category package) with permutation p-value.

MON with different mean (0, 1)	countH_Pseudo_Perm	countG	countG_Perm	countGlobalAncova	countN_Perm	countGSEA_Category
composition:0.5 0.5 ,rho:0.1 0.9 ,probes:30,size:50,difference:0	0.054	0.06	0.059	0.058	0.058	0.062
composition:0.5 0.5 ,rho:0.1 0.9 ,probes:30,size:70,difference:0	0.069	0.062	0.061	0.053	0.063	0.061
MON with different mean (0, 2)	countH_Pseudo_Perm	countG	countG_Perm	countGlobalAncova	countN_Perm	countGSEA_Category
composition:0.5 0.5 ,rho:0.1 0.9 ,probes:30,size:50,difference:0	0.051	0.064	0.062	0.053	0.064	0.06
composition:0.5 0.5 ,rho:0.1 0.9 ,probes:30,size:70,difference:0	0.062	0.061	0.06	0.059	0.07	0.062
MON with same mean	countH_Pseudo_Perm	countG	countG_Perm	countGlobalAncova	countN_Perm	countGSEA_Category
composition:0.5 0.5 ,rho:0.1 0.9 ,probes:30,size:70,difference:0	0.069	0.055	0.056	0.049	0.056	0.053
Multivariate normal distribution	countH_Pseudo_Perm	countG	countG_Perm	countGlobalAncova	countN_Perm	countGSEA_Category
composition:1 ,rho:0.1 ,probes:30,size:70,difference:0	0.055	0.055	0.054	0.051	0.057	0.053
composition:1 ,rho:0.9 ,probes:30,size:70,difference:0	0.062	0.05	0.053	0.044	0.048	0.054
Multivariate t-distribution	countH_Pseudo_Perm	countG	countG_Perm	countGlobalAncova	countN_Perm	countGSEA_Category
composition:1 ,rho:0.9 ,df:3,probes:30,size:70,difference:0	0.062	0.049	0.053	0.055	0.053	0.057