
Dataset 1
Dataset 2
Replicated
MRA: OR=1.31, P=0.5
FC: OR=7.28, P=5e−04
MRA: OR=1.77, P=0.1
FC: OR=3.51, P=0.001
MRA: OR=3.33, P=0.03
FC: OR=19.05, P=9e−05
GLM CLR
MRA: OR=1.31, P=0.5
FC: OR=7.28, P=5e−04
MRA: OR=1.77, P=0.1
FC: OR=3.51, P=0.001
MRA: OR=3.33, P=0.03
FC: OR=19.05, P=9e−05
t−test CLR
MRA: OR=0.88, P=0.8
FC: OR=6.56, P=2e−04
MRA: OR=1.71, P=0.1
FC: OR=4.47, P=2e−04
MRA: OR=1.98, P=0.2
FC: OR=23.52, P=1e−05
t−test TSS
MRA: OR=1.42, P=0.4
FC: OR=12.36, P=3e−05
MRA: OR=1.4, P=0.3
FC: OR=4.48, P=2e−04
MRA: OR=2.31, P=0.1
FC: OR=Inf, P=9e−07
limma−voom
MRA: OR=1.1, P=0.8
FC: OR=6.24, P=4e−04
MRA: OR=1.97, P=0.06
FC: OR=4.14, P=7e−04
MRA: OR=1.81, P=0.2
FC: OR=21.97, P=2e−05
GLM TSS
MRA: OR=1.42, P=0.4
FC: OR=12.36, P=3e−05
MRA: OR=2.42, P=0.02
FC: OR=8.15, P=5e−06
MRA: OR=2.52, P=0.06
FC: OR=Inf, P=4e−07
KW TSS
MRA: OR=1.42, P=0.4
FC: OR=12.36, P=3e−05
MRA: OR=4.53, P=2e−04
FC: OR=6.4, P=1e−04
MRA: OR=2.99, P=0.03
FC: OR=Inf, P=9e−07
LEfSe
MRA: OR=2.09, P=0.2
FC: OR=3.72, P=0.04
MRA: OR=2.3, P=0.02
FC: OR=2.65, P=0.02
MRA: OR=3.14, P=0.06
FC: OR=Inf, P=1e−04
KW CLR
MRA: OR=1.84, P=0.2
FC: OR=3.76, P=0.01
MRA: OR=0.98, P=1
FC: OR=12.83, P=7e−13
MRA: OR=2.36, P=0.07
FC: OR=26.81, P=2e−06
ANCOM−BC
MRA: OR=1.33, P=0.5
FC: OR=3.31, P=0.004
MRA: OR=1.79, P=0.06
FC: OR=5.75, P=2e−07
MRA: OR=1.42, P=0.4
FC: OR=20.08, P=1e−07
SAMseq
MRA: OR=1.62, P=0.3
FC: OR=9.46, P=3e−04
MRA: OR=2.42, P=0.03
FC: OR=5.12, P=0.001
MRA: OR=1.6, P=0.4
FC: OR=13.79, P=0.002
fitFeatureModel
MRA: OR=4.69, P=0.01
FC: OR=4.12, P=0.08
MRA: OR=4.09, P=6e−04
FC: OR=2.31, P=0.05
MRA: OR=5.76, P=0.02
FC: OR=Inf, P=5e−04
ALDEx2 Wilcoxon
MRA: OR=2.92, P=0.1
FC: OR=6.21, P=0.1
MRA: OR=5, P=3e−04
FC: OR=1.87, P=0.2
MRA: OR=5.1, P=0.03
FC: OR=Inf, P=0.001
ALDEx2 t−test
MRA: OR=2.95, P=0.03
FC: OR=7.94, P=0.002
MRA: OR=2.12, P=0.02
FC: OR=4.45, P=5e−05
MRA: OR=3.33, P=0.03
FC: OR=8.69, P=9e−04
DESeq2
MRA: OR=0.27, P=4e−04
FC: OR=10.91, P=1e−09
MRA: OR=1.11, P=0.8
FC: OR=6.5, P=5e−09
MRA: OR=0.59, P=0.2
FC: OR=24.43, P=5e−11
metagenomeSeq
MRA: OR=0.67, P=0.3
FC: OR=108.79, P=4e−16
MRA: OR=0.7, P=0.3
FC: OR=8.72, P=9e−12
MRA: OR=0.71, P=0.4
FC: OR=63.86, P=1e−11
edgeR RLE
MRA: OR=0.59, P=0.3
FC: OR=Inf, P=8e−07
MRA: OR=1.43, P=0.3
FC: OR=5.73, P=4e−06
MRA: OR=0.79, P=0.8
FC: OR=Inf, P=1e−05
edgeR TMM
MRA: OR=2.25, P=0.1
FC: OR=5.28, P=0.02
MRA: OR=2.05, P=0.08
FC: OR=1.98, P=0.2
MRA: OR=5.36, P=0.1
FC: OR=Inf, P=0.03
t−test rCLR
MRA: OR=1.02, P=1
FC: OR=Inf, P=5e−09
MRA: OR=1.71, P=0.1
FC: OR=Inf, P=7e−12
MRA: OR=0.63, P=0.5
FC: OR=Inf, P=2e−06
GLM NBZI
MRA: OR=2.02, P=0.2
FC: OR=4.88, P=0.03
MRA: OR=1.86, P=0.1
FC: OR=2.09, P=0.1
MRA: OR=Inf, P=0.03
FC: OR=Inf, P=0.06
GLM rCLR
MRA: OR=6.52, P=0.06
FC: OR=3.54, P=0.4
MRA: OR=Inf, P=3e−04
FC: OR=2.95, P=0.2
MRA: OR=6.54, P=0.06
FC: OR=Inf, P=0.02
ANCOM
MRA: OR=1.24, P=0.6
FC: OR=2.64, P=0.01
MRA: OR=0.63, P=0.1
FC: OR=2.67, P=0.002
MRA: OR=1.27, P=0.6
FC: OR=6.61, P=0.002
KW rCLR
MRA: OR=0.18, P=3e−04
FC: OR=3.55, P=0.02
MRA: OR=0.74, P=0.5
FC: OR=17.38, P=1e−07
MRA: OR=1.02, P=1
FC: OR=Inf, P=0.008
baySeq
Mean relative abundances (log scale)
log2 fold change in PD