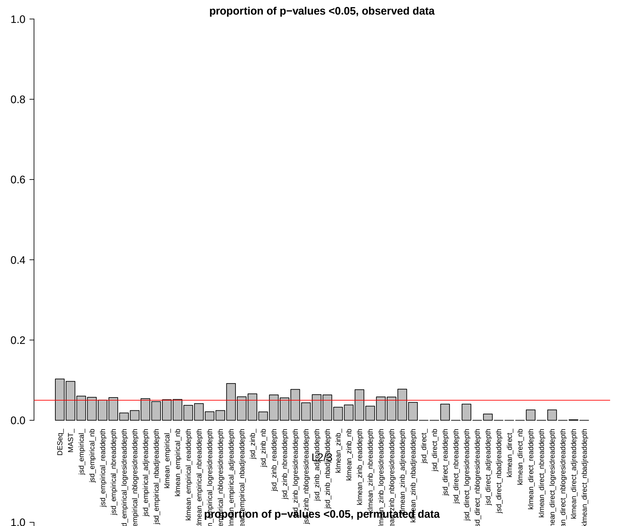
proportion of p−values <0.05, observed data
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdesqreaddepth
jsd_empirical_rbdesqresireaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kimean_empirical_nb
kimean_empirical_readdepth
kimean_empirical_rbdesqreaddepth
kimean_empirical_rbdesqresireaddepth
kimean_empirical_adjreaddepth
kimean_empirical_rbadjreaddepth
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_rbdesqreaddepth
jsd_zinb_rbdesqresireaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kimean_zinb_
kimean_zinb_nb
kimean_zinb_readdepth
kimean_zinb_rbdesqreaddepth
kimean_zinb_rbdesqresireaddepth
kimean_zinb_adjreaddepth
kimean_zinb_rbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbdesqreaddepth
jsd_direct_rbdesqresireaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kimean_direct_
kimean_direct_nb
kimean_direct_readdepth
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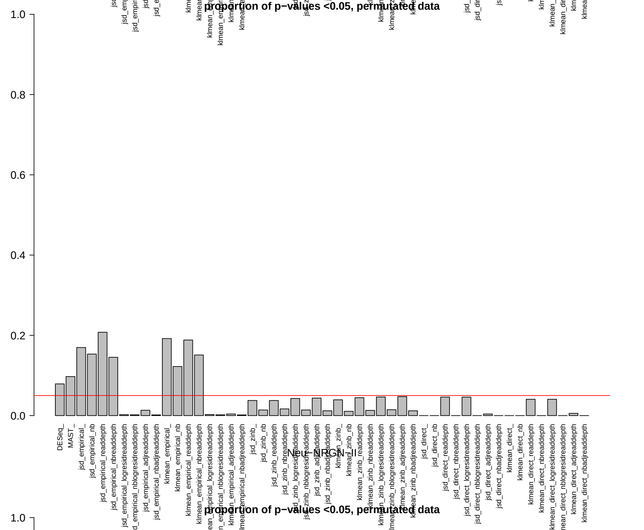
kimean_direct_rbadjreaddepth
Neur_5-6


proportion of p−values <0.05, permutated data
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0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdesqreaddepth
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jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kimean_empirical_nb
kimean_empirical_readdepth
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kimean_empirical_rbdesqresireaddepth
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kimean_empirical_rbadjreaddepth
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_rbdesqreaddepth
jsd_zinb_rbdesqresireaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kimean_zinb_
kimean_zinb_nb
kimean_zinb_readdepth
kimean_zinb_rbdesqreaddepth
kimean_zinb_rbdesqresireaddepth
kimean_zinb_adjreaddepth
kimean_zinb_rbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
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jsd_direct_rbdesqresireaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kimean_direct_
kimean_direct_nb
kimean_direct_readdepth
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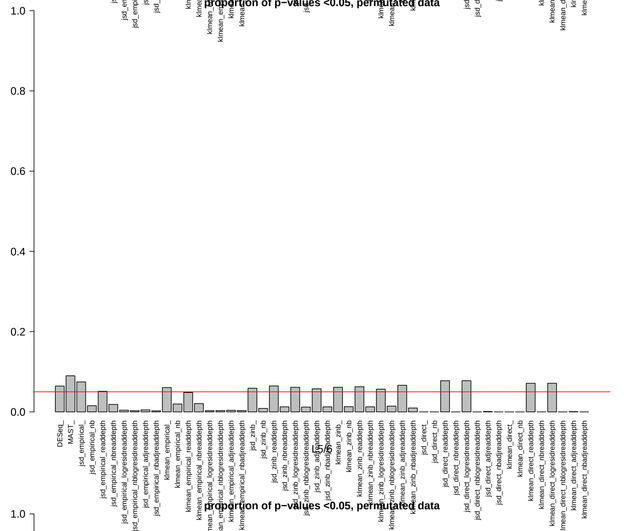
kimean_direct_rbadjreaddepth
Neur_NRGN_II


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdesqreaddepth
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jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kimean_empirical_nb
kimean_empirical_readdepth
kimean_empirical_rbdesqreaddepth
kimean_empirical_rbdesqresireaddepth
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kimean_empirical_rbadjreaddepth
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jsd_zinb_readdepth
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jsd_zinb_rbadjreaddepth
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kimean_zinb_nb
kimean_zinb_readdepth
kimean_zinb_rbdesqreaddepth
kimean_zinb_rbdesqresireaddepth
kimean_zinb_adjreaddepth
kimean_zinb_rbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbdesqreaddepth
jsd_direct_rbdesqresireaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kimean_direct_
kimean_direct_nb
kimean_direct_readdepth
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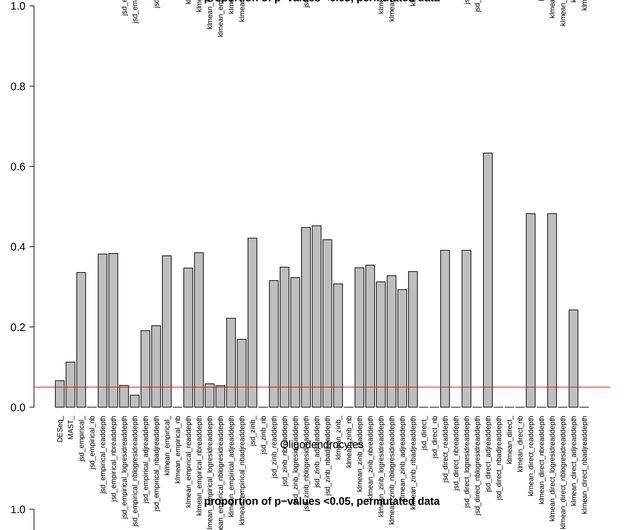
kimean_direct_rbadjreaddepth
Neur_5-6


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdesqreaddepth
jsd_empirical_rbdesqresireaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kimean_empirical_nb
kimean_empirical_readdepth
kimean_empirical_rbdesqreaddepth
kimean_empirical_rbdesqresireaddepth
kimean_empirical_adjreaddepth
kimean_empirical_rbadjreaddepth
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_rbdesqreaddepth
jsd_zinb_rbdesqresireaddepth
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jsd_zinb_rbadjreaddepth
kimean_zinb_
kimean_zinb_nb
kimean_zinb_readdepth
kimean_zinb_rbdesqreaddepth
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kimean_zinb_adjreaddepth
kimean_zinb_rbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbdesqreaddepth
jsd_direct_rbdesqresireaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kimean_direct_
kimean_direct_nb
kimean_direct_readdepth
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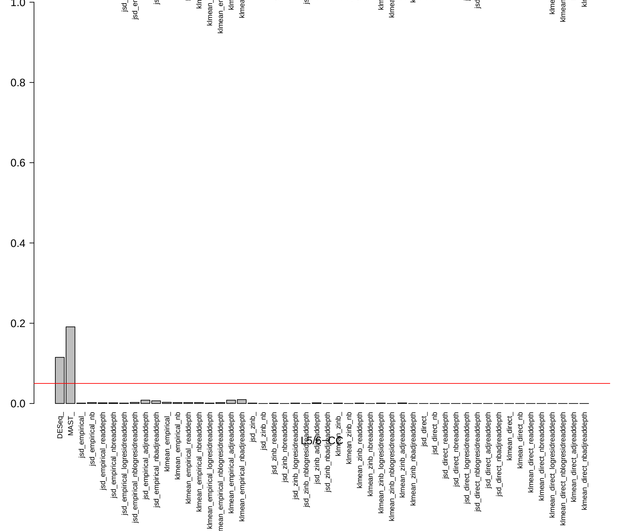
kimean_direct_rbdesqresireaddepth
kimean_direct_adjreaddepth
kimean_direct_rbadjreaddepth
Oligodendrocytes


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdesqreaddepth
jsd_empirical_rbdesqresireaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kimean_empirical_nb
kimean_empirical_readdepth
kimean_empirical_rbdesqreaddepth
kimean_empirical_rbdesqresireaddepth
kimean_empirical_adjreaddepth
kimean_empirical_rbadjreaddepth
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_rbdesqreaddepth
jsd_zinb_rbdesqresireaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kimean_zinb_
kimean_zinb_nb
kimean_zinb_readdepth
kimean_zinb_rbdesqreaddepth
kimean_zinb_rbdesqresireaddepth
kimean_zinb_adjreaddepth
kimean_zinb_rbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbdesqreaddepth
jsd_direct_rbdesqresireaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
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kimean_direct_nb
kimean_direct_readdepth
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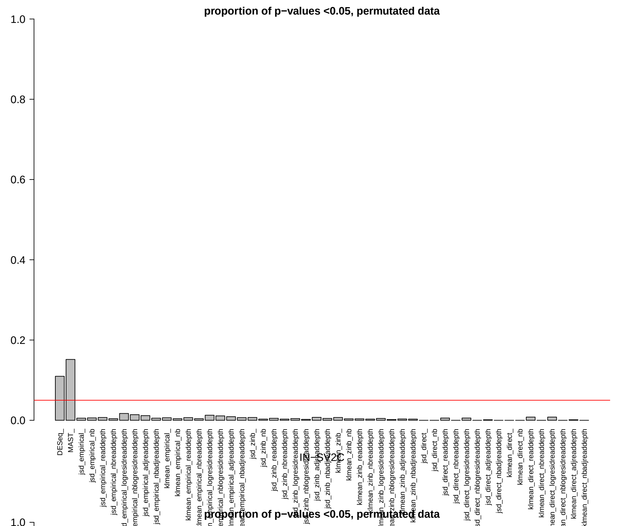
5-6_CC


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
Neu−NRGN−II
DESeq_
MAST_
MVFT_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdeadepth
jsd_empirical_rbdegressireadepth
jsd_empirical_rbdegressireadepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kimean_empirical
kimean_empirical_nb
kimean_empirical_readdepth
kimean_empirical_rbreaddepth
kimean_empirical_logressireadepth
kimean_empirical_rbdegressireadepth
kimean_empirical_adjreadepth
kimean_empirical_rbadjreadepth
jsd_zinb
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_rbreaddepth
jsd_zinb_logressireadepth
jsd_zinb_rbdegressireadepth
jsd_zinb_adjreadepth
jsd_zinb_rbadjreadepth
kimean_zinb
kimean_zinb_nb
kimean_zinb_readdepth
kimean_zinb_rbreaddepth
kimean_zinb_logressireadepth
kimean_zinb_rbdegressireadepth
kimean_zinb_adjreadepth
kimean_zinb_rbadjreadepth
jsd_direct
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbreaddepth
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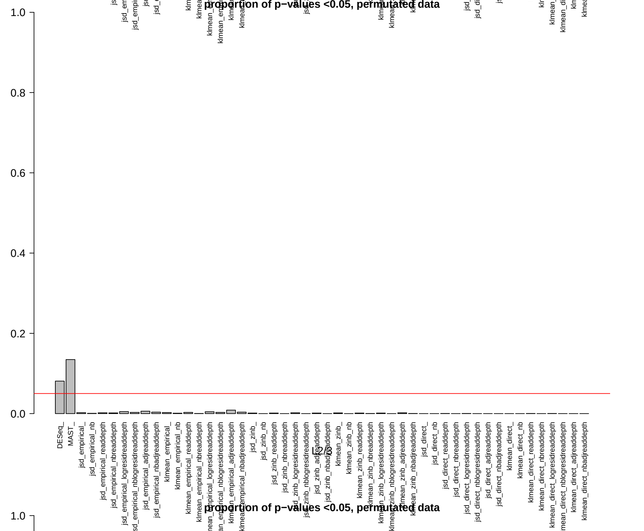
proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
Neu−NRGN−II
DESeq_
MAST_
MVFT_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdeadepth
jsd_empirical_rbdegressireadepth
jsd_empirical_rbdegressireadepth
jsd_empirical_adjreadepth
jsd_empirical_rbadjreadepth
kimean_empirical
kimean_empirical_nb
kimean_empirical_readdepth
kimean_empirical_rbreaddepth
kimean_empirical_logressireadepth
kimean_empirical_rbdegressireadepth
kimean_empirical_adjreadepth
kimean_empirical_rbadjreadepth
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jsd_zinb_nb
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jsd_zinb_adjreadepth
jsd_zinb_rbadjreadepth
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kimean_zinb_nb
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kimean_zinb_rbreaddepth
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kimean_zinb_rbdegressireadepth
kimean_zinb_adjreadepth
kimean_zinb_rbadjreadepth
jsd_direct
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbreaddepth
jsd_direct_logressireadepth
jsd_direct_rbdegressireadepth
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jsd_direct_rbadjreadepth
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kimean_direct_nb
kimean_direct_readdepth
kimean_direct_rbreaddepth
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kimean_direct_adjreadepth
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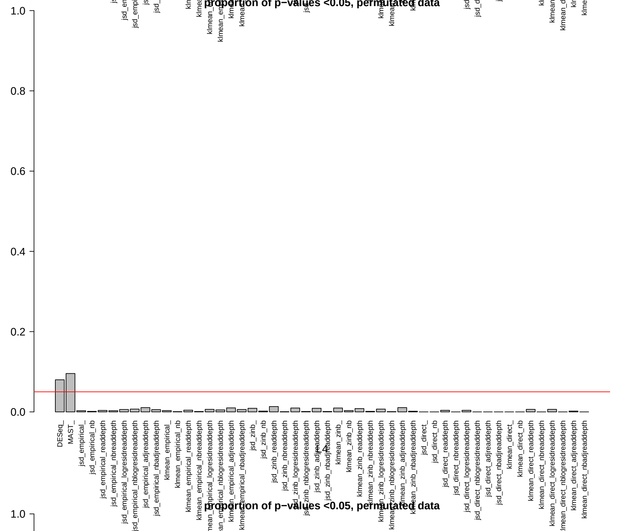
proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
Neu−NRGN−II
DESeq_
MAST_
MVFT_
jsd_empirical
jsd_empirical_nb
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jsd_empirical_adjreadepth
jsd_empirical_rbadjreadepth
kimean_empirical
kimean_empirical_nb
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kimean_empirical_rbreaddepth
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kimean_empirical_rbdegressireadepth
kimean_empirical_adjreadepth
kimean_empirical_rbadjreadepth
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jsd_zinb_nb
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jsd_zinb_adjreadepth
jsd_zinb_rbadjreadepth
kimean_zinb
kimean_zinb_nb
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kimean_zinb_rbreaddepth
kimean_zinb_logressireadepth
kimean_zinb_rbdegressireadepth
kimean_zinb_adjreadepth
kimean_zinb_rbadjreadepth
jsd_direct
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbreaddepth
jsd_direct_logressireadepth
jsd_direct_rbdegressireadepth
jsd_direct_adjreadepth
jsd_direct_rbadjreadepth
kimean_direct
kimean_direct_nb
kimean_direct_readdepth
kimean_direct_rbreaddepth
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kimean_direct_rbdegressireadepth
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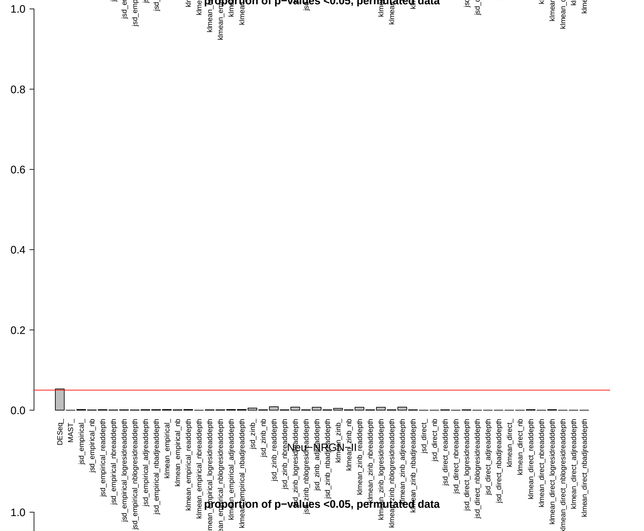
proportion of p−values <0.05, permutated data
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0.6
0.4
0.2
0.0
Neu−NRGN−II
DESeq_
MAST_
MVFT_
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jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdeadepth
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jsd_empirical_rbadjreadepth
kimean_empirical
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kimean_empirical_rbadjreadepth
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jsd_zinb_nb
jsd_zinb_readdepth
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kimean_zinb_rbadjreadepth
jsd_direct
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbreaddepth
jsd_direct_logressireadepth
jsd_direct_rbdegressireadepth
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kimean_direct_nb
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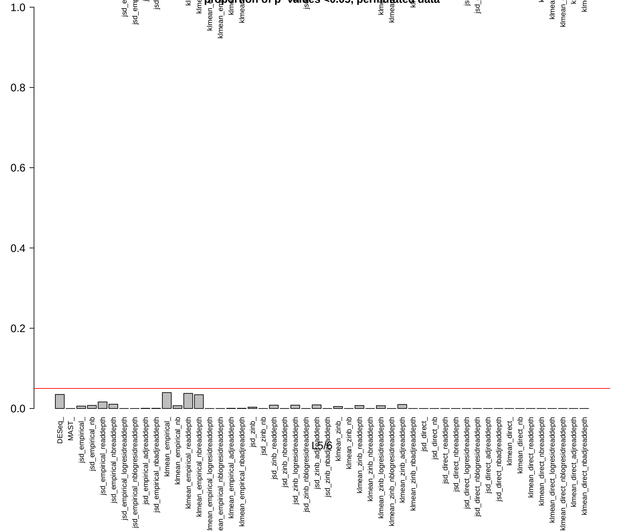
proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
Neu−NRGN−II
DESeq_
MAST_
MVFT_
jsd_empirical
jsd_empirical_nb
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kimean_empirical_adjreadepth
kimean_empirical_rbadjreadepth
jsd_zinb
jsd_zinb_nb
jsd_zinb_readdepth
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jsd_direct_nb
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kimean_direct_rbdegressireadepth
kimean_direct_adjreadepth
kimean_direct_rbadjreadepth

proportion of p−values <0.05, permutated data
Oligodendrocytes
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_fdreaddepth
jsd_empirical_fdnbreaddepth
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kmean_direct_fdreaddepth
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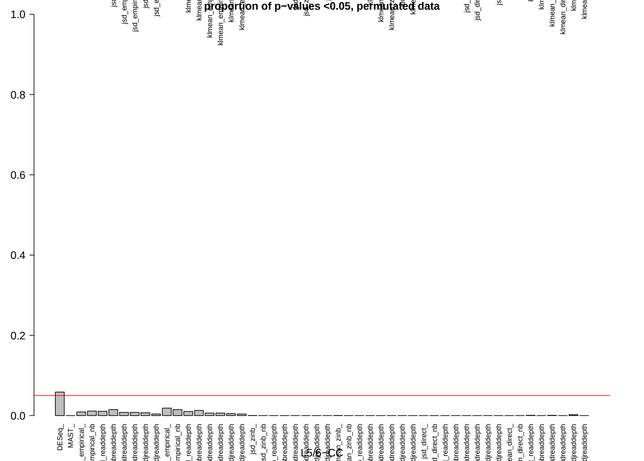
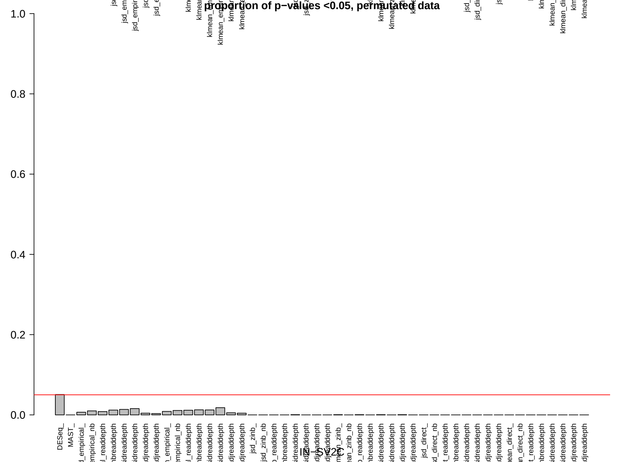
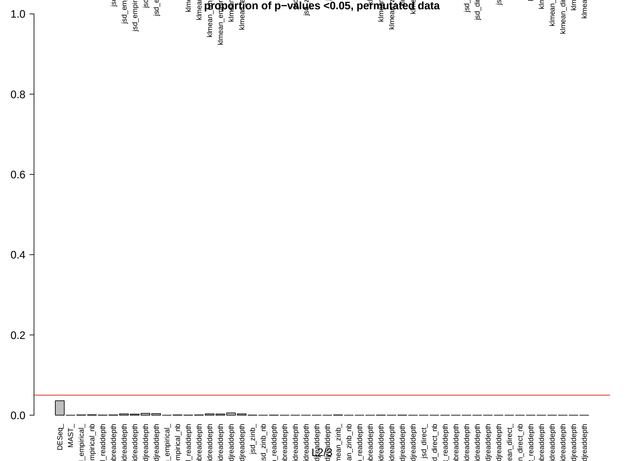
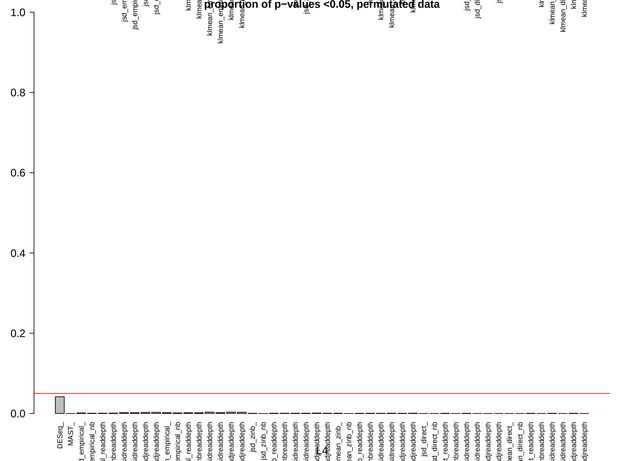
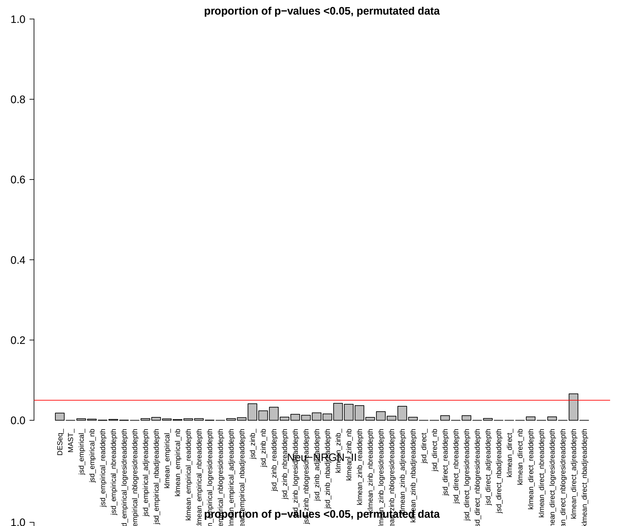
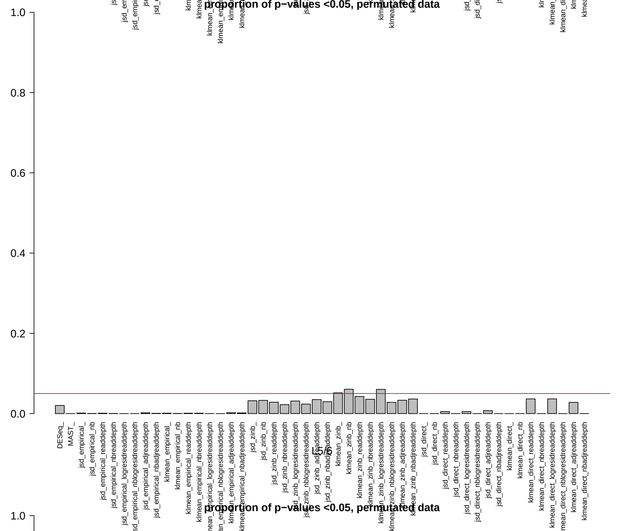

proportion of p−values <0.05, permutated data
CD5+B CC
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_fdreaddepth
jsd_empirical_fdnbreaddepth
jsd_empirical_nbregstreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_nbadjreaddepth
kmean_empirical
kmean_empirical_nb
kmean_empirical_readdepth
kmean_empirical_fdreaddepth
kmean_empirical_fdnbreaddepth
kmean_empirical_nbregstreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_nbadjreaddepth
jsd_zinb
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_fdreaddepth
jsd_zinb_fdnbreaddepth
jsd_zinb_bgregstreaddepth
jsd_zinb_bgnbregstreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_nbadjreaddepth
kmeans_zinb
kmeans_zinb_nb
kmean_zinb_readdepth
kmean_zinb_fdreaddepth
kmean_zinb_fdnbreaddepth
kmean_zinb_bgregstreaddepth
kmean_zinb_bgnbregstreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_nbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_fdreaddepth
jsd_direct_fdnbreaddepth
jsd_direct_bgregstreaddepth
jsd_direct_bgnbregstreaddepth
jsd_direct_adjreaddepth
jsd_direct_nbadjreaddepth
kmean_direct_
kmean_direct_nb
kmean_direct_readdepth
kmean_direct_fdreaddepth
kmean_direct_fdnbreaddepth
kmean_direct_bgregstreaddepth
kmean_direct_bgnbregstreaddepth
kmean_direct_adjreaddepth
kmean_direct_nbadjreaddepth

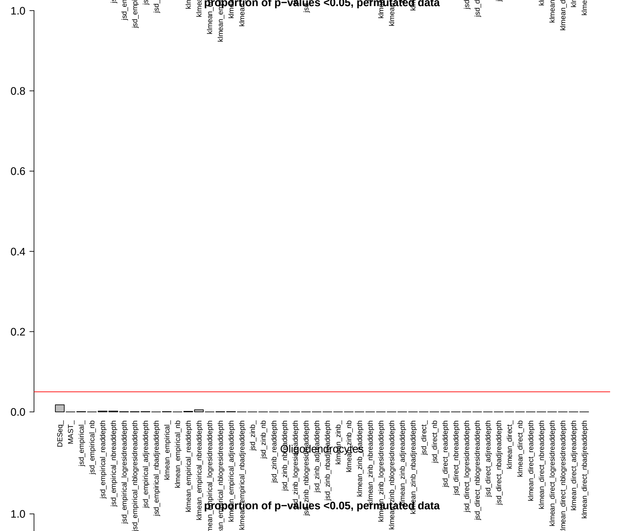

proportion of p−values <0.05, permutated data
IN SV2C
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_fdreaddepth
jsd_empirical_fdnbreaddepth
jsd_empirical_nbregstreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_nbadjreaddepth
kmean_empirical
kmean_empirical_nb
kmean_empirical_readdepth
kmean_empirical_fdreaddepth
kmean_empirical_fdnbreaddepth
kmean_empirical_nbregstreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_nbadjreaddepth
jsd_zinb
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_fdreaddepth
jsd_zinb_fdnbreaddepth
jsd_zinb_bgregstreaddepth
jsd_zinb_bgnbregstreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_nbadjreaddepth
kmeans_zinb
kmeans_zinb_nb
kmean_zinb_readdepth
kmean_zinb_fdreaddepth
kmean_zinb_fdnbreaddepth
kmean_zinb_bgregstreaddepth
kmean_zinb_bgnbregstreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_nbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_fdreaddepth
jsd_direct_fdnbreaddepth
jsd_direct_bgregstreaddepth
jsd_direct_bgnbregstreaddepth
jsd_direct_adjreaddepth
jsd_direct_nbadjreaddepth
kmean_direct_
kmean_direct_nb
kmean_direct_readdepth
kmean_direct_fdreaddepth
kmean_direct_fdnbreaddepth
kmean_direct_bgregstreaddepth
kmean_direct_bgnbregstreaddepth
kmean_direct_adjreaddepth
kmean_direct_nbadjreaddepth

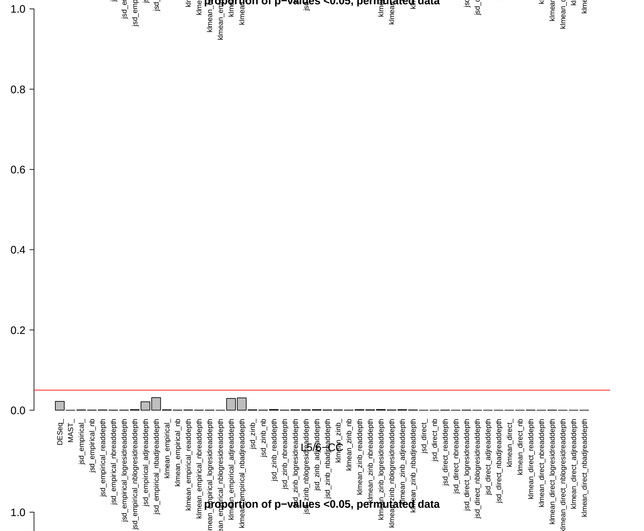

proportion of p−values <0.05, permutated data
L2/3
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_fdreaddepth
jsd_empirical_fdnbreaddepth
jsd_empirical_nbregstreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_nbadjreaddepth
kmean_empirical
kmean_empirical_nb
kmean_empirical_readdepth
kmean_empirical_fdreaddepth
kmean_empirical_fdnbreaddepth
kmean_empirical_nbregstreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_nbadjreaddepth
jsd_zinb
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_fdreaddepth
jsd_zinb_fdnbreaddepth
jsd_zinb_bgregstreaddepth
jsd_zinb_bgnbregstreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_nbadjreaddepth
kmeans_zinb
kmeans_zinb_nb
kmean_zinb_readdepth
kmean_zinb_fdreaddepth
kmean_zinb_fdnbreaddepth
kmean_zinb_bgregstreaddepth
kmean_zinb_bgnbregstreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_nbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_fdreaddepth
jsd_direct_fdnbreaddepth
jsd_direct_bgregstreaddepth
jsd_direct_bgnbregstreaddepth
jsd_direct_adjreaddepth
jsd_direct_nbadjreaddepth
kmean_direct_
kmean_direct_nb
kmean_direct_readdepth
kmean_direct_fdreaddepth
kmean_direct_fdnbreaddepth
kmean_direct_bgregstreaddepth
kmean_direct_bgnbregstreaddepth
kmean_direct_adjreaddepth
kmean_direct_nbadjreaddepth

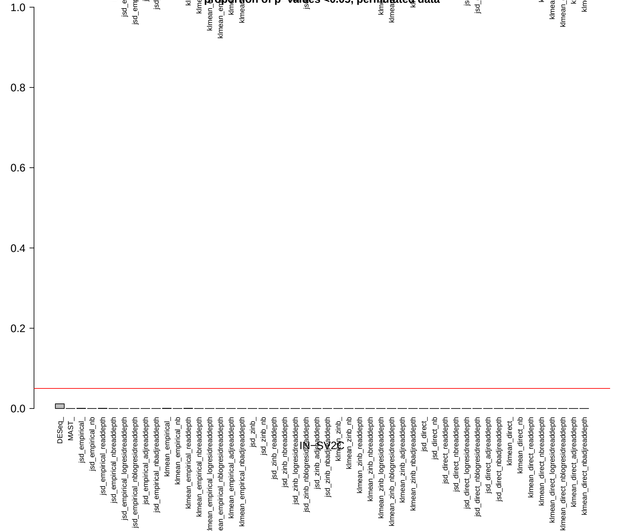

proportion of p−values <0.05, permutated data
L4
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
jsd_empirical
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_fdreaddepth
jsd_empirical_fdnbreaddepth
jsd_empirical_nbregstreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_nbadjreaddepth
kmean_empirical
kmean_empirical_nb
kmean_empirical_readdepth
kmean_empirical_fdreaddepth
kmean_empirical_fdnbreaddepth
kmean_empirical_nbregstreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_nbadjreaddepth
jsd_zinb
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_fdreaddepth
jsd_zinb_fdnbreaddepth
jsd_zinb_bgregstreaddepth
jsd_zinb_bgnbregstreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_nbadjreaddepth
kmeans_zinb
kmeans_zinb_nb
kmean_zinb_readdepth
kmean_zinb_fdreaddepth
kmean_zinb_fdnbreaddepth
kmean_zinb_bgregstreaddepth
kmean_zinb_bgnbregstreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_nbadjreaddepth
jsd_direct_
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_fdreaddepth
jsd_direct_fdnbreaddepth
jsd_direct_bgregstreaddepth
jsd_direct_bgnbregstreaddepth
jsd_direct_adjreaddepth
jsd_direct_nbadjreaddepth
kmean_direct_
kmean_direct_nb
kmean_direct_readdepth
kmean_direct_fdreaddepth
kmean_direct_fdnbreaddepth
kmean_direct_bgregstreaddepth
kmean_direct_bgnbregstreaddepth
kmean_direct_adjreaddepth
kmean_direct_nbadjreaddepth

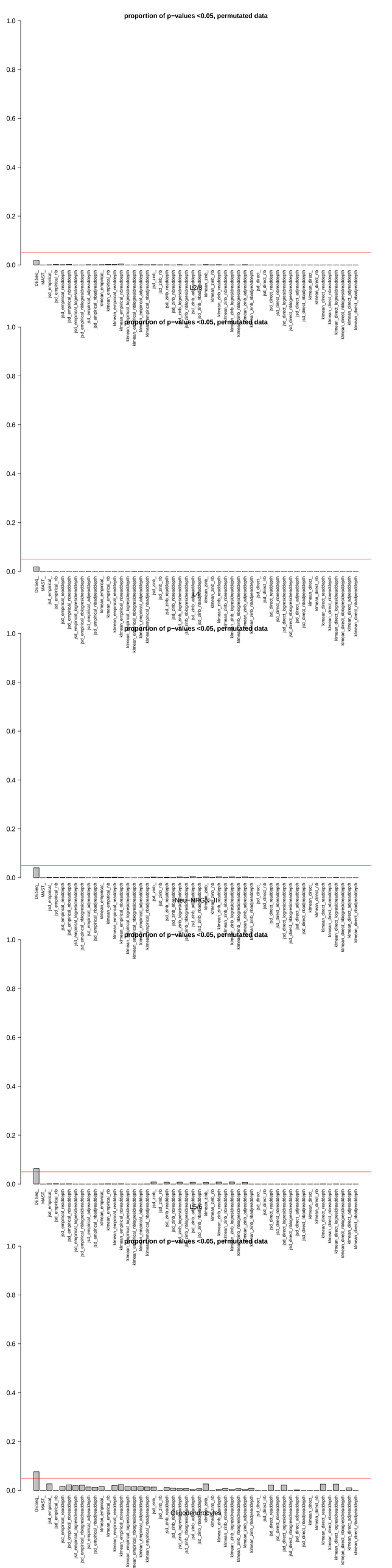

proportion of p−values <0.05, permutated data
Neur_NRGN_
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
psd_empirical_
psd_empirical_ro
psd_empirical_readdepth
psd_empirical_rbdepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_adjreaddepth
psd_empirical_rbadjreaddepth
kmean_empirical_ro
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
kmeanempirical_rbadjreaddepth
psd_zinb_ro
psd_zinb_ro
psd_zinb_ro
psd_zinb_readdepth
psd_zinb_rbdepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_adjreaddepth
psd_zinb_rbadjreaddepth
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_readdepth
kmeanzinb_rbdepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_adjreaddepth
kmeanzinb_rbadjreaddepth
psd_direct_
psd_direct_
psd_direct_ro
psd_direct_ro
psd_direct_readdepth
psd_direct_rbdepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_adjreaddepth
psd_direct_rbadjreaddepth
kmean_direct_
kmean_direct_ro
kmean_direct_ro
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth

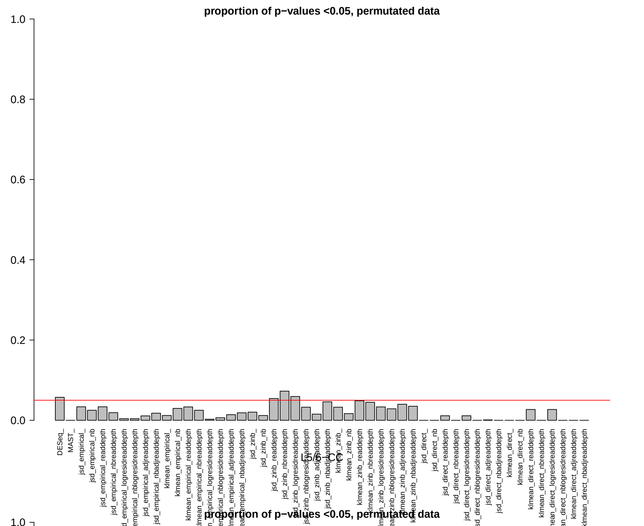

proportion of p−values <0.05, permutated data
L5/6
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
psd_empirical_
psd_empirical_ro
psd_empirical_readdepth
psd_empirical_rbdepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_adjreaddepth
psd_empirical_rbadjreaddepth
kmean_empirical_ro
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
kmeanempirical_rbadjreaddepth
psd_zinb_ro
psd_zinb_ro
psd_zinb_ro
psd_zinb_readdepth
psd_zinb_rbdepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_adjreaddepth
psd_zinb_rbadjreaddepth
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_readdepth
kmeanzinb_rbdepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_adjreaddepth
kmeanzinb_rbadjreaddepth
psd_direct_
psd_direct_
psd_direct_ro
psd_direct_ro
psd_direct_readdepth
psd_direct_rbdepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_adjreaddepth
psd_direct_rbadjreaddepth
kmean_direct_
kmean_direct_ro
kmean_direct_ro
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth

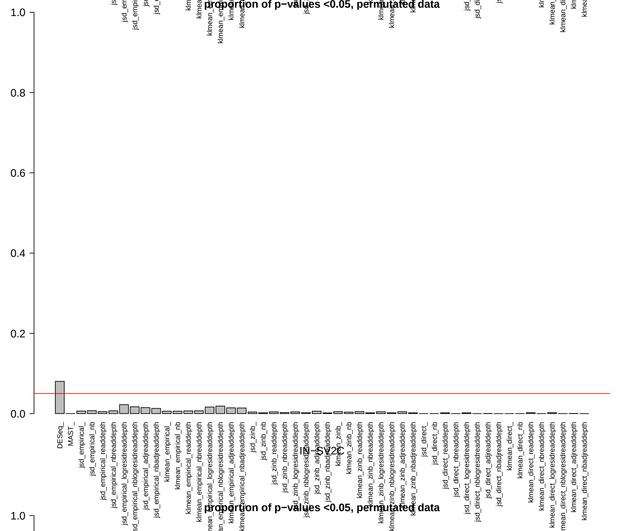

proportion of p−values <0.05, permutated data
Oligodendrocytes
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
psd_empirical_
psd_empirical_ro
psd_empirical_readdepth
psd_empirical_rbdepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_adjreaddepth
psd_empirical_rbadjreaddepth
kmean_empirical_ro
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
kmeanempirical_rbadjreaddepth
psd_zinb_ro
psd_zinb_ro
psd_zinb_ro
psd_zinb_readdepth
psd_zinb_rbdepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_adjreaddepth
psd_zinb_rbadjreaddepth
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_readdepth
kmeanzinb_rbdepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_adjreaddepth
kmeanzinb_rbadjreaddepth
psd_direct_
psd_direct_
psd_direct_ro
psd_direct_ro
psd_direct_readdepth
psd_direct_rbdepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_adjreaddepth
psd_direct_rbadjreaddepth
kmean_direct_
kmean_direct_ro
kmean_direct_ro
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth

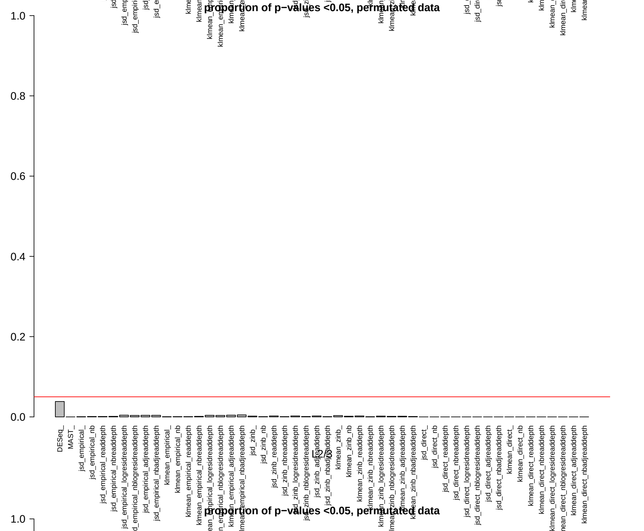

proportion of p−values <0.05, permutated data
L5/6 CC
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
psd_empirical_
psd_empirical_ro
psd_empirical_readdepth
psd_empirical_rbdepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_adjreaddepth
psd_empirical_rbadjreaddepth
kmean_empirical_ro
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
kmeanempirical_rbadjreaddepth
psd_zinb_ro
psd_zinb_ro
psd_zinb_ro
psd_zinb_readdepth
psd_zinb_rbdepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_adjreaddepth
psd_zinb_rbadjreaddepth
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_readdepth
kmeanzinb_rbdepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_adjreaddepth
kmeanzinb_rbadjreaddepth
psd_direct_
psd_direct_
psd_direct_ro
psd_direct_ro
psd_direct_readdepth
psd_direct_rbdepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_adjreaddepth
psd_direct_rbadjreaddepth
kmean_direct_
kmean_direct_ro
kmean_direct_ro
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth

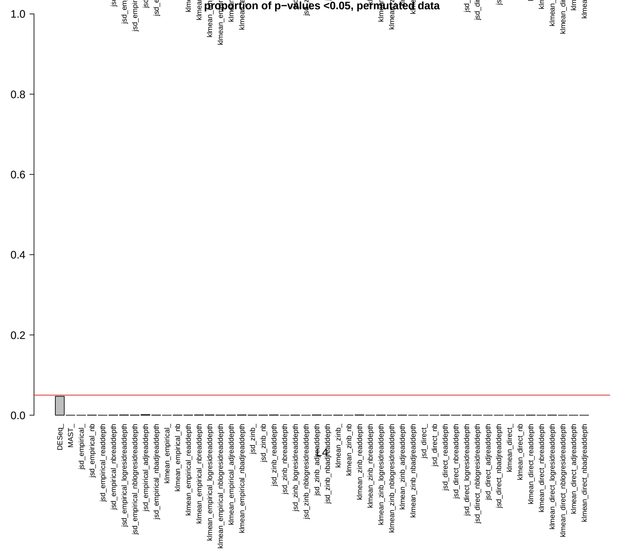

proportion of p−values <0.05, permutated data
IN_SV2C
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
MAST_
psd_empirical_
psd_empirical_ro
psd_empirical_readdepth
psd_empirical_rbdepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_rbdepsqreadepth
psd_empirical_adjreaddepth
psd_empirical_rbadjreaddepth
kmean_empirical_ro
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_rbdepsqreadepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
kmeanempirical_rbadjreaddepth
psd_zinb_ro
psd_zinb_ro
psd_zinb_ro
psd_zinb_readdepth
psd_zinb_rbdepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_rbdepsqreadepth
psd_zinb_adjreaddepth
psd_zinb_rbadjreaddepth
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_ro
kmeanzinb_readdepth
kmeanzinb_rbdepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_rbdepsqreadepth
kmeanzinb_adjreaddepth
kmeanzinb_rbadjreaddepth
psd_direct_
psd_direct_
psd_direct_ro
psd_direct_ro
psd_direct_readdepth
psd_direct_rbdepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_rbdepsqreadepth
psd_direct_adjreaddepth
psd_direct_rbadjreaddepth
kmean_direct_
kmean_direct_ro
kmean_direct_ro
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_rbdepsqreadepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
DESeq_
MAST_
jsd_empirical_
jsd_empirical_nb
jsd_empirical_readdepth
jsd_empirical_rbdepth
jsd_empirical_rbdepthreaddepth
jsd_empirical_rbdepresidreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kmean_empirical_nb
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepthreaddepth
kmean_empirical_rbdepresidreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
jsd_zinb_nb
jsd_zinb_readdepth
jsd_zinb_rbdepth
jsd_zinb_rbdepthreaddepth
jsd_zinb_rbdepresidreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kmean_zinb_nb
kmean_zinb_readdepth
kmean_zinb_rbdepth
kmean_zinb_rbdepthreaddepth
kmean_zinb_rbdepresidreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_rbadjreaddepth
jsd_direct_nb
jsd_direct_readdepth
jsd_direct_rbdepth
jsd_direct_rbdepthreaddepth
jsd_direct_rbdepresidreaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kmean_direct_nb
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepthreaddepth
kmean_direct_rbdepresidreaddepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth
Neur_NRGN_II
Oligodendrocytes


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
5/6 °C
DESeq_
MVUT_
MVUT_
jsd_empirical
jsd_empirical_no
jsd_empirical_readdepth
jsd_empirical_rbdepth
jsd_empirical_rbdepthreaddepth
jsd_empirical_rdepgreisreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kmean_empirical
kmean_empirical_no
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepthreaddepth
kmean_empirical_rdepgreisreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
jsd_zinb
jsd_zinb_no
jsd_zinb_readdepth
jsd_zinb_rbdepth
jsd_zinb_rbdepthreaddepth
jsd_zinb_bgreisreaddepth
jsd_zinb_rdepgreisreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kmean_zinb
kmean_zinb_no
kmean_zinb_readdepth
kmean_zinb_rbdepth
kmean_zinb_rbdepthreaddepth
kmean_zinb_bgreisreaddepth
kmean_zinb_rdepgreisreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_rbadjreaddepth
jsd_direct
jsd_direct_no
jsd_direct_readdepth
jsd_direct_rbdepth
jsd_direct_rbdepthreaddepth
jsd_direct_bgreisreaddepth
jsd_direct_rdepgreisreaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kmean_direct
kmean_direct_no
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepthreaddepth
kmean_direct_bgreisreaddepth
kmean_direct_rdepgreisreaddepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
N−5V2C
DESeq_
MVUT_
MVUT_
jsd_empirical
jsd_empirical_no
jsd_empirical_readdepth
jsd_empirical_rbdepth
jsd_empirical_rbdepthreaddepth
jsd_empirical_rdepgreisreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kmean_empirical
kmean_empirical_no
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepthreaddepth
kmean_empirical_rdepgreisreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
jsd_zinb
jsd_zinb_no
jsd_zinb_readdepth
jsd_zinb_rbdepth
jsd_zinb_rbdepthreaddepth
jsd_zinb_bgreisreaddepth
jsd_zinb_rdepgreisreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kmean_zinb
kmean_zinb_no
kmean_zinb_readdepth
kmean_zinb_rbdepth
kmean_zinb_rbdepthreaddepth
kmean_zinb_bgreisreaddepth
kmean_zinb_rdepgreisreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_rbadjreaddepth
jsd_direct
jsd_direct_no
jsd_direct_readdepth
jsd_direct_rbdepth
jsd_direct_rbdepthreaddepth
jsd_direct_bgreisreaddepth
jsd_direct_rdepgreisreaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kmean_direct
kmean_direct_no
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepthreaddepth
kmean_direct_bgreisreaddepth
kmean_direct_rdepgreisreaddepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
5/8
DESeq_
MVUT_
MVUT_
jsd_empirical
jsd_empirical_no
jsd_empirical_readdepth
jsd_empirical_rbdepth
jsd_empirical_rbdepthreaddepth
jsd_empirical_rdepgreisreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kmean_empirical
kmean_empirical_no
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepthreaddepth
kmean_empirical_rdepgreisreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
jsd_zinb
jsd_zinb_no
jsd_zinb_readdepth
jsd_zinb_rbdepth
jsd_zinb_rbdepthreaddepth
jsd_zinb_bgreisreaddepth
jsd_zinb_rdepgreisreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kmean_zinb
kmean_zinb_no
kmean_zinb_readdepth
kmean_zinb_rbdepth
kmean_zinb_rbdepthreaddepth
kmean_zinb_bgreisreaddepth
kmean_zinb_rdepgreisreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_rbadjreaddepth
jsd_direct
jsd_direct_no
jsd_direct_readdepth
jsd_direct_rbdepth
jsd_direct_rbdepthreaddepth
jsd_direct_bgreisreaddepth
jsd_direct_rdepgreisreaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kmean_direct
kmean_direct_no
kmean_direct_readdepth
kmean_direct_rbdepth
kmean_direct_rbdepthreaddepth
kmean_direct_bgreisreaddepth
kmean_direct_rdepgreisreaddepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth


proportion of p−values <0.05, permutated data
1.0
0.8
0.6
0.4
0.2
0.0
L2/8
DESeq_
MVUT_
MVUT_
jsd_empirical
jsd_empirical_no
jsd_empirical_readdepth
jsd_empirical_rbdepth
jsd_empirical_rbdepthreaddepth
jsd_empirical_rdepgreisreaddepth
jsd_empirical_adjreaddepth
jsd_empirical_rbadjreaddepth
kmean_empirical
kmean_empirical_no
kmean_empirical_readdepth
kmean_empirical_rbdepth
kmean_empirical_rbdepthreaddepth
kmean_empirical_rdepgreisreaddepth
kmean_empirical_adjreaddepth
kmean_empirical_rbadjreaddepth
jsd_zinb
jsd_zinb_no
jsd_zinb_readdepth
jsd_zinb_rbdepth
jsd_zinb_rbdepthreaddepth
jsd_zinb_bgreisreaddepth
jsd_zinb_rdepgreisreaddepth
jsd_zinb_adjreaddepth
jsd_zinb_rbadjreaddepth
kmean_zinb
kmean_zinb_no
kmean_zinb_readdepth
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kmean_zinb_rdepgreisreaddepth
kmean_zinb_adjreaddepth
kmean_zinb_rbadjreaddepth
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jsd_direct_rbdepthreaddepth
jsd_direct_bgreisreaddepth
jsd_direct_rdepgreisreaddepth
jsd_direct_adjreaddepth
jsd_direct_rbadjreaddepth
kmean_direct
kmean_direct_no
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kmean_direct_rbdepth
kmean_direct_rbdepthreaddepth
kmean_direct_bgreisreaddepth
kmean_direct_rdepgreisreaddepth
kmean_direct_adjreaddepth
kmean_direct_rbadjreaddepth