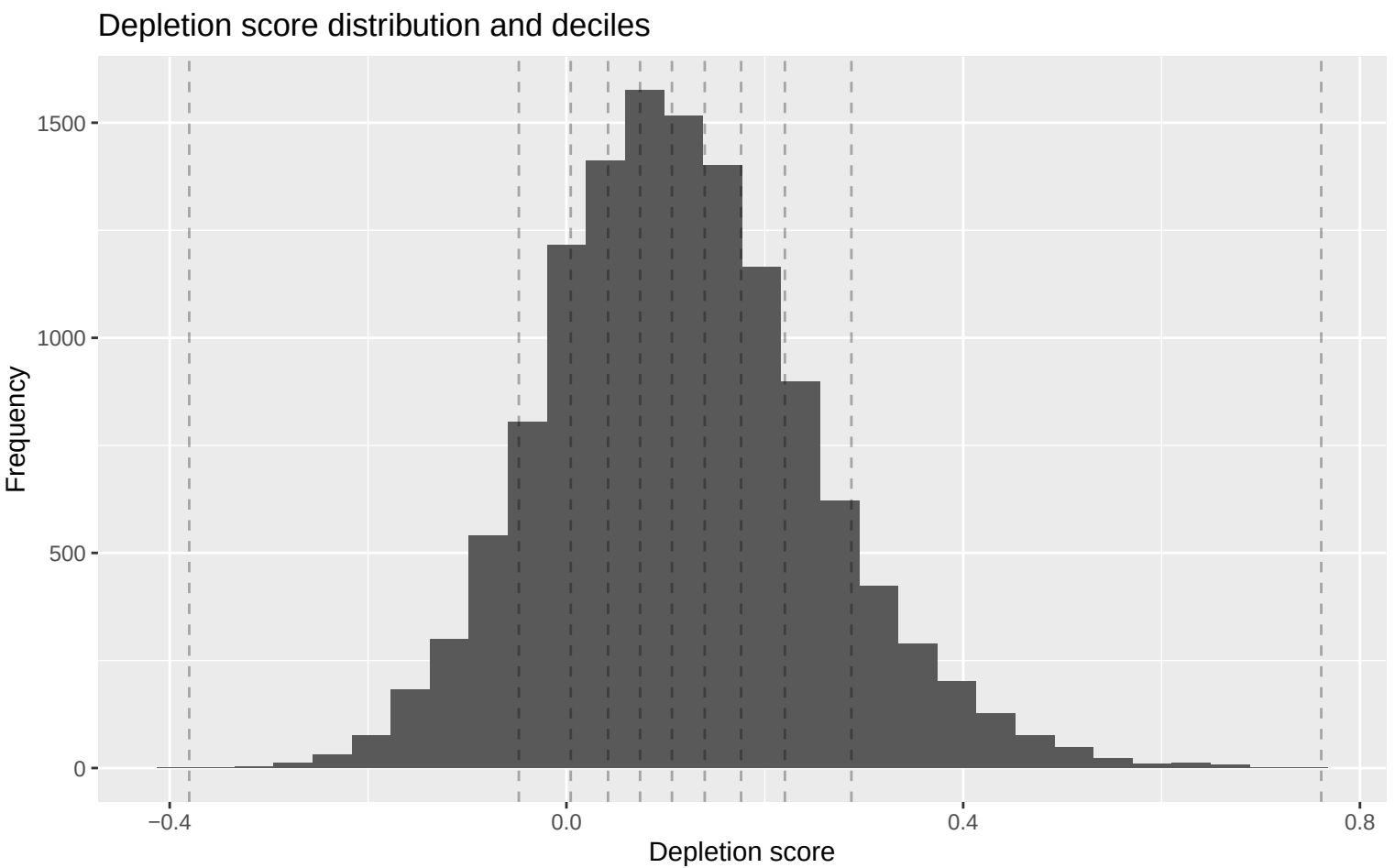
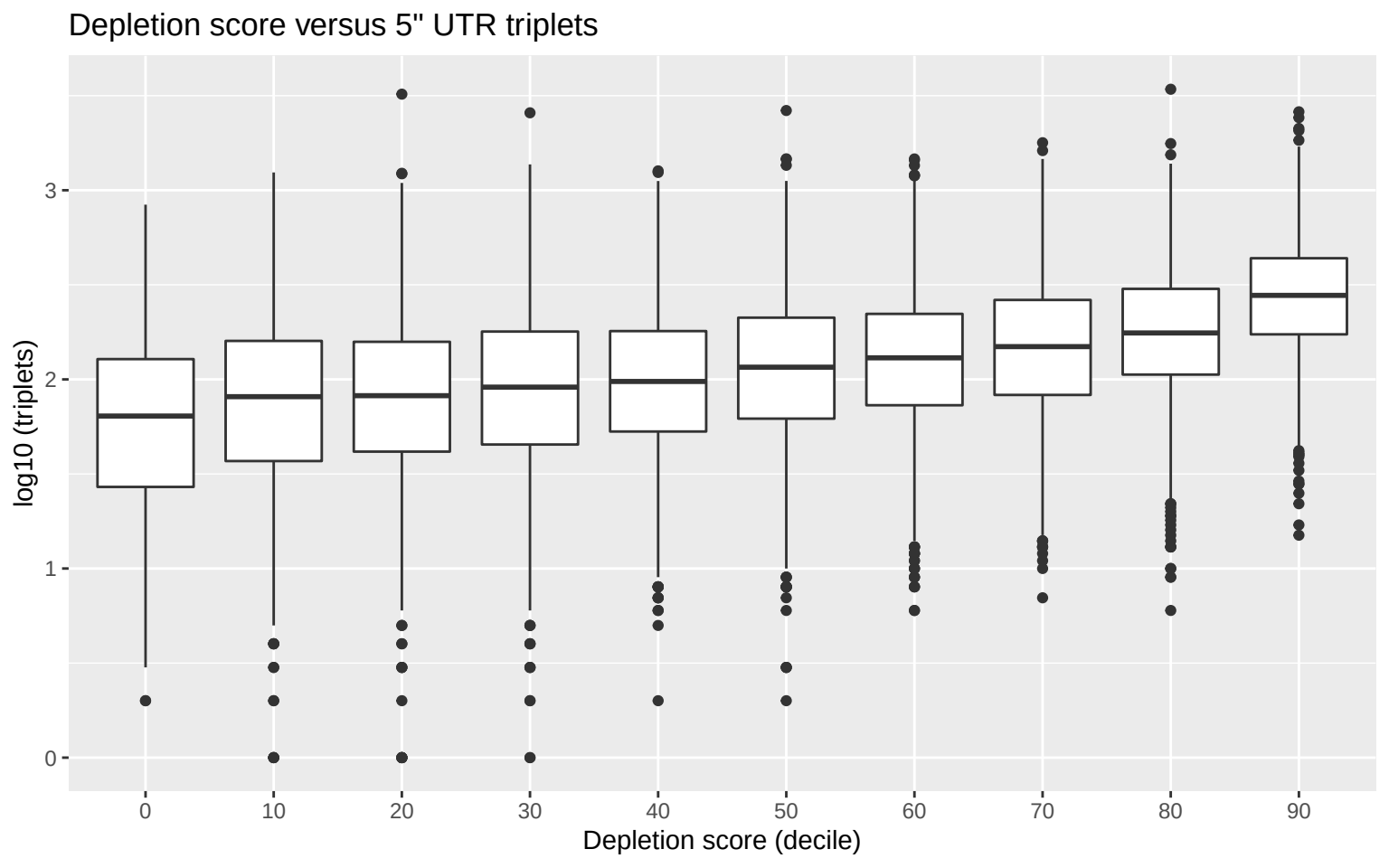
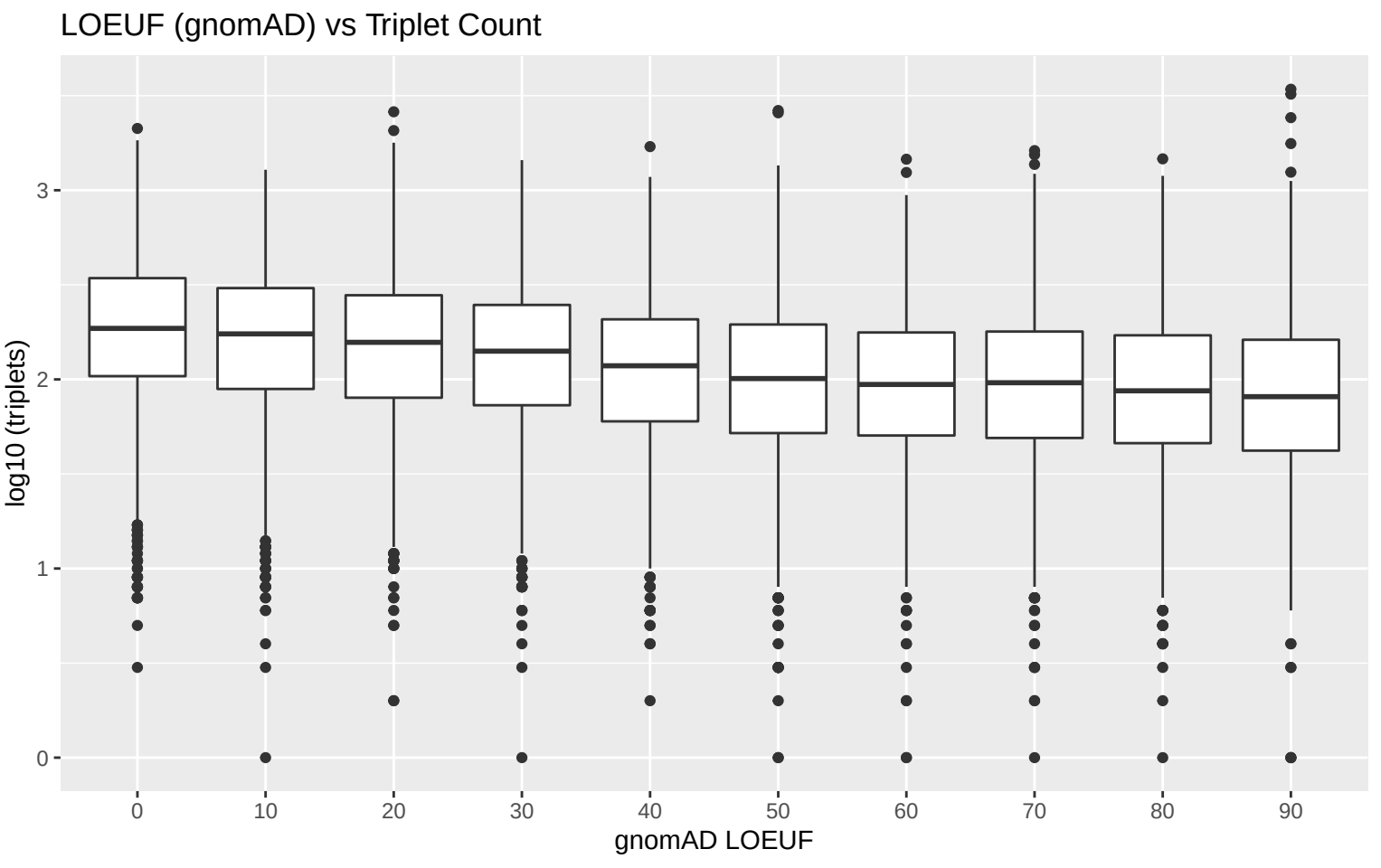
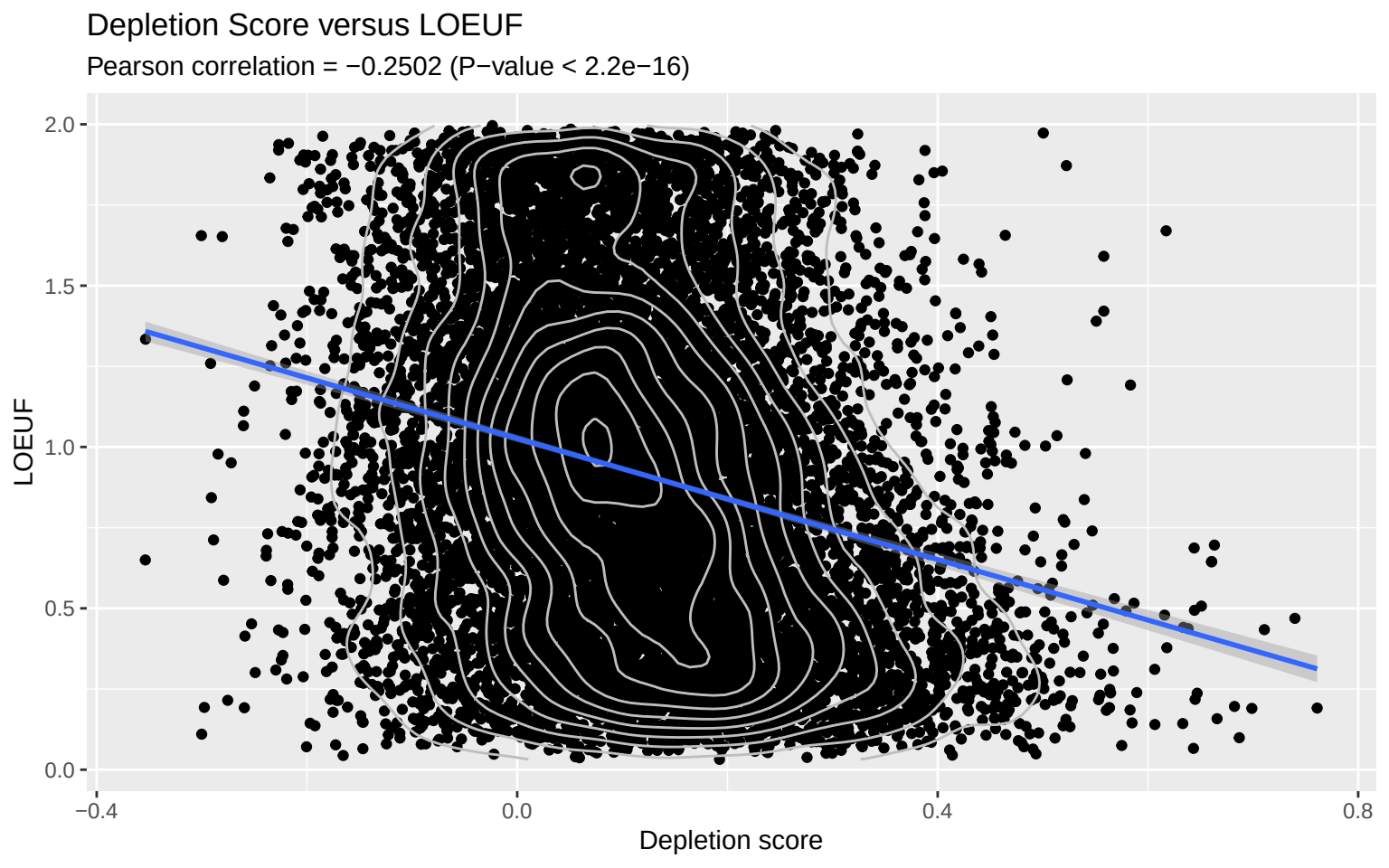
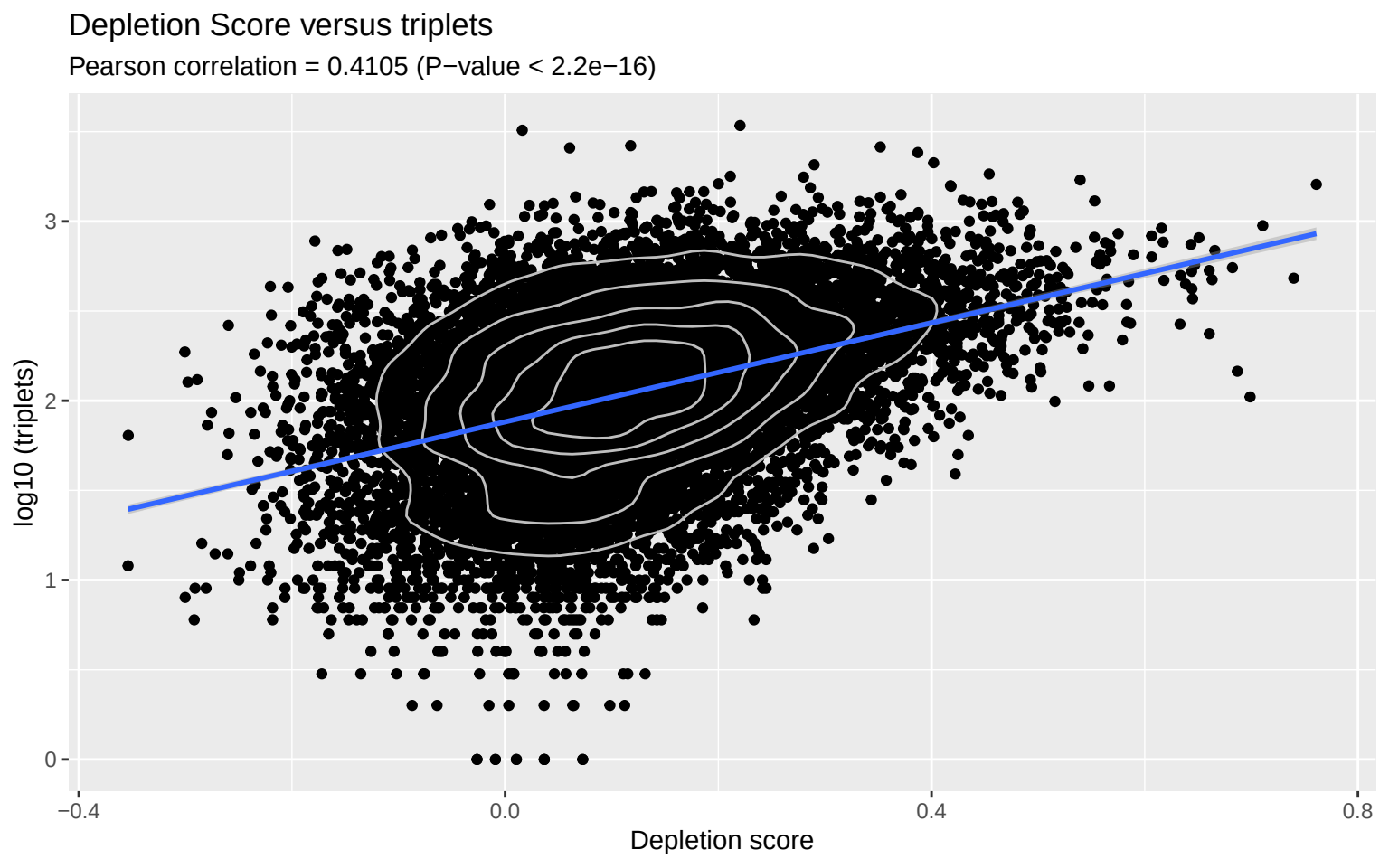
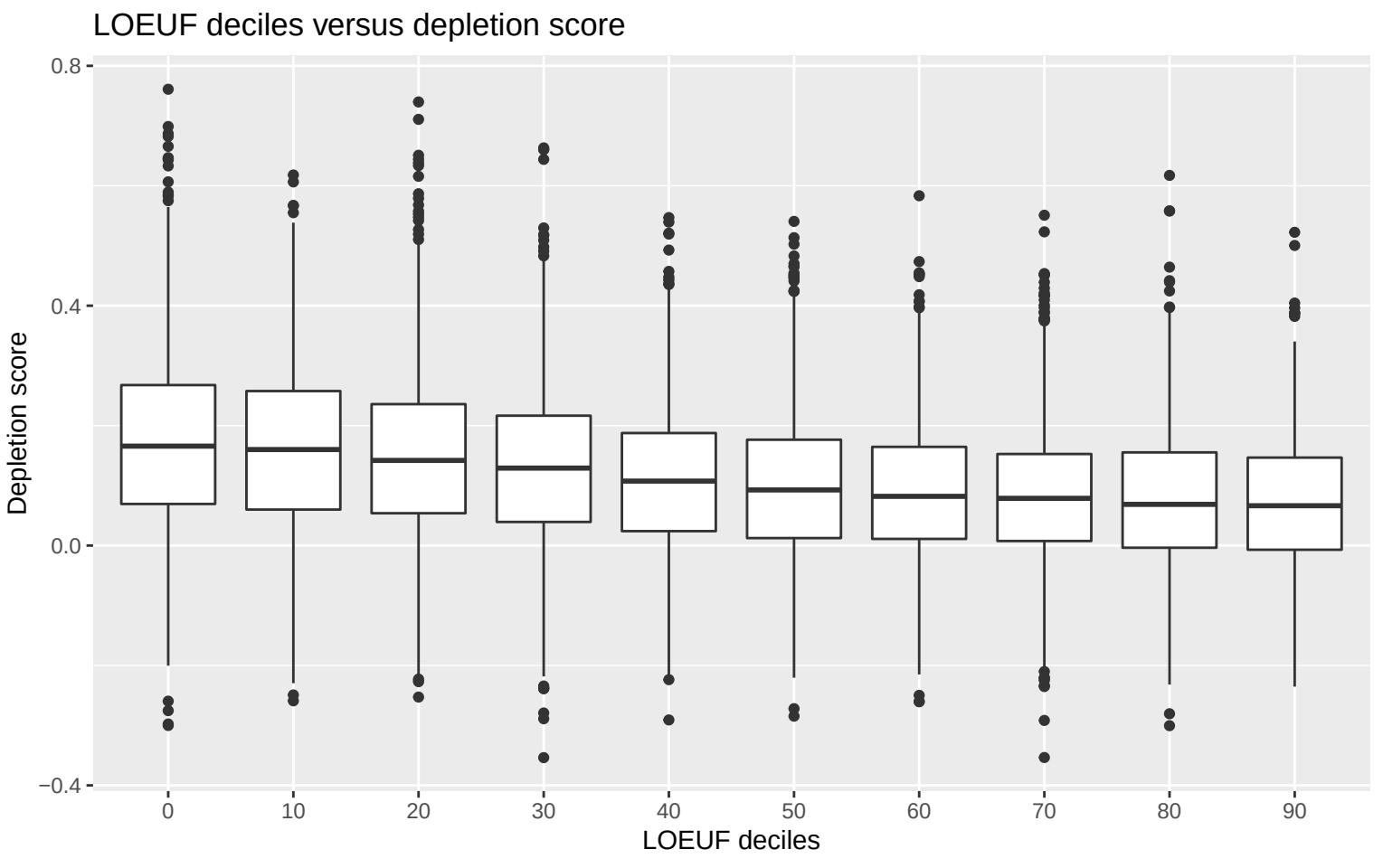

Depletion score distribution and deciles
1500
1000
500
0
Frequency
−0.4
0.0
0.4
0.8
Depletion score

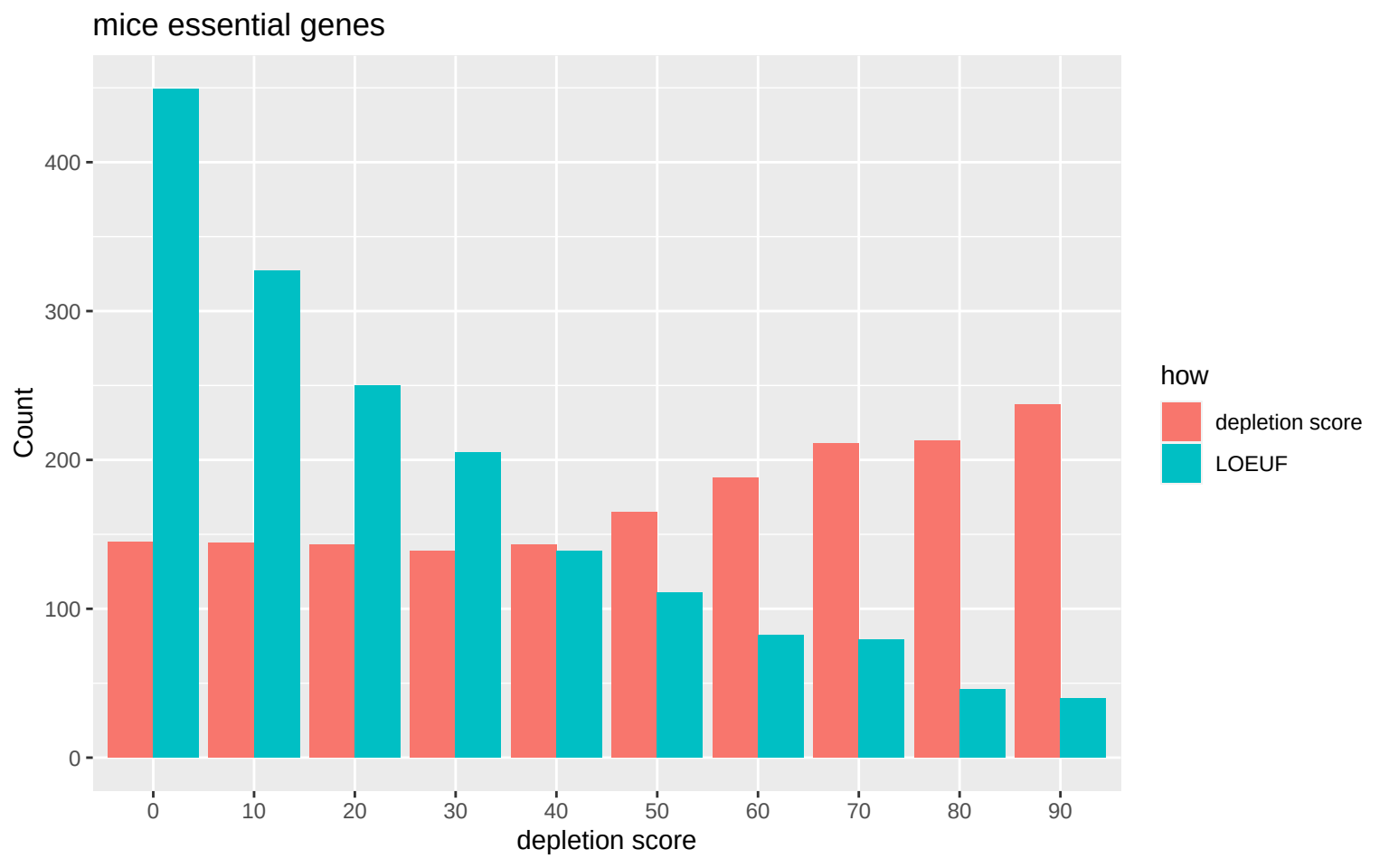

Depletion score versus 5" UTR triplets
log10 (triplets)
3
2
1
0
0
10
20
30
40
50
60
70
80
90
Depletion score (decile)

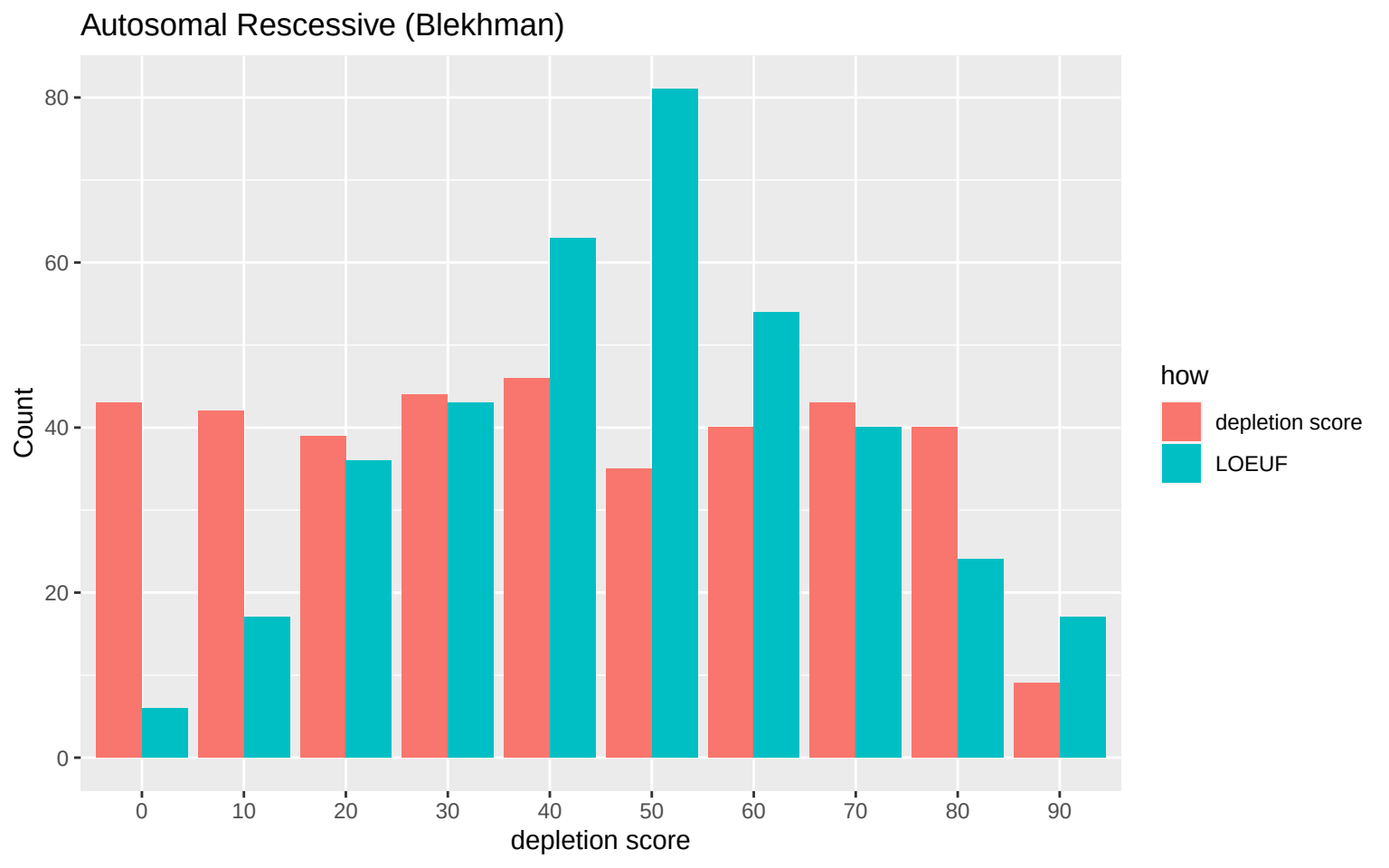

LOEUF (gnomAD) vs Triplet Count
log10 (triplets)
0
1
2
3
0
10
20
30
40
50
60
70
80
90
gnomAD LOEUF

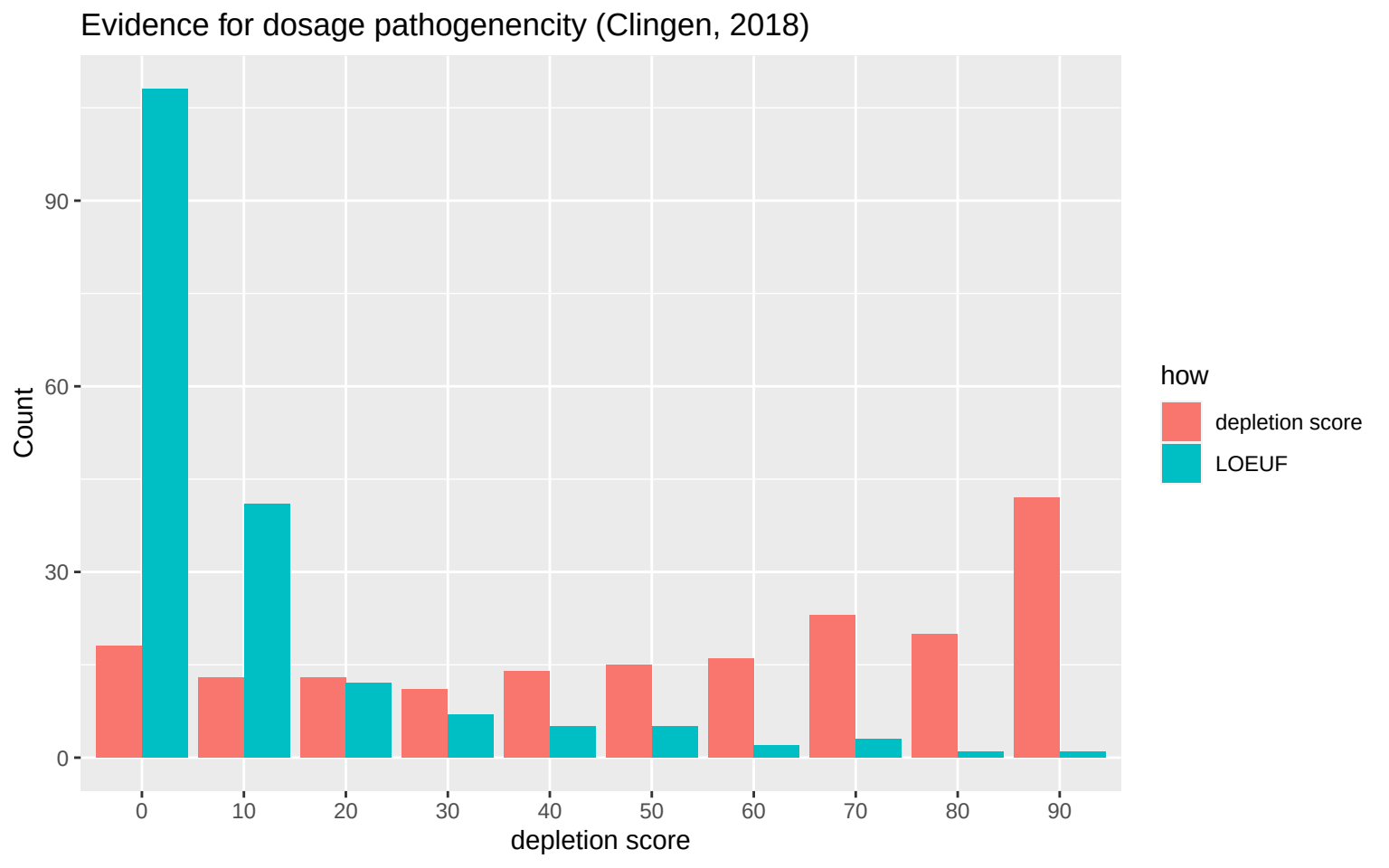

Depletion Score versus LOEUF
Pearson correlation = −0.2502 (P−value < 2.2e−16)
LOEUF
2.0
1.5
1.0
0.5
0.0
−0.4
0.0
0.4
0.8
Depletion score

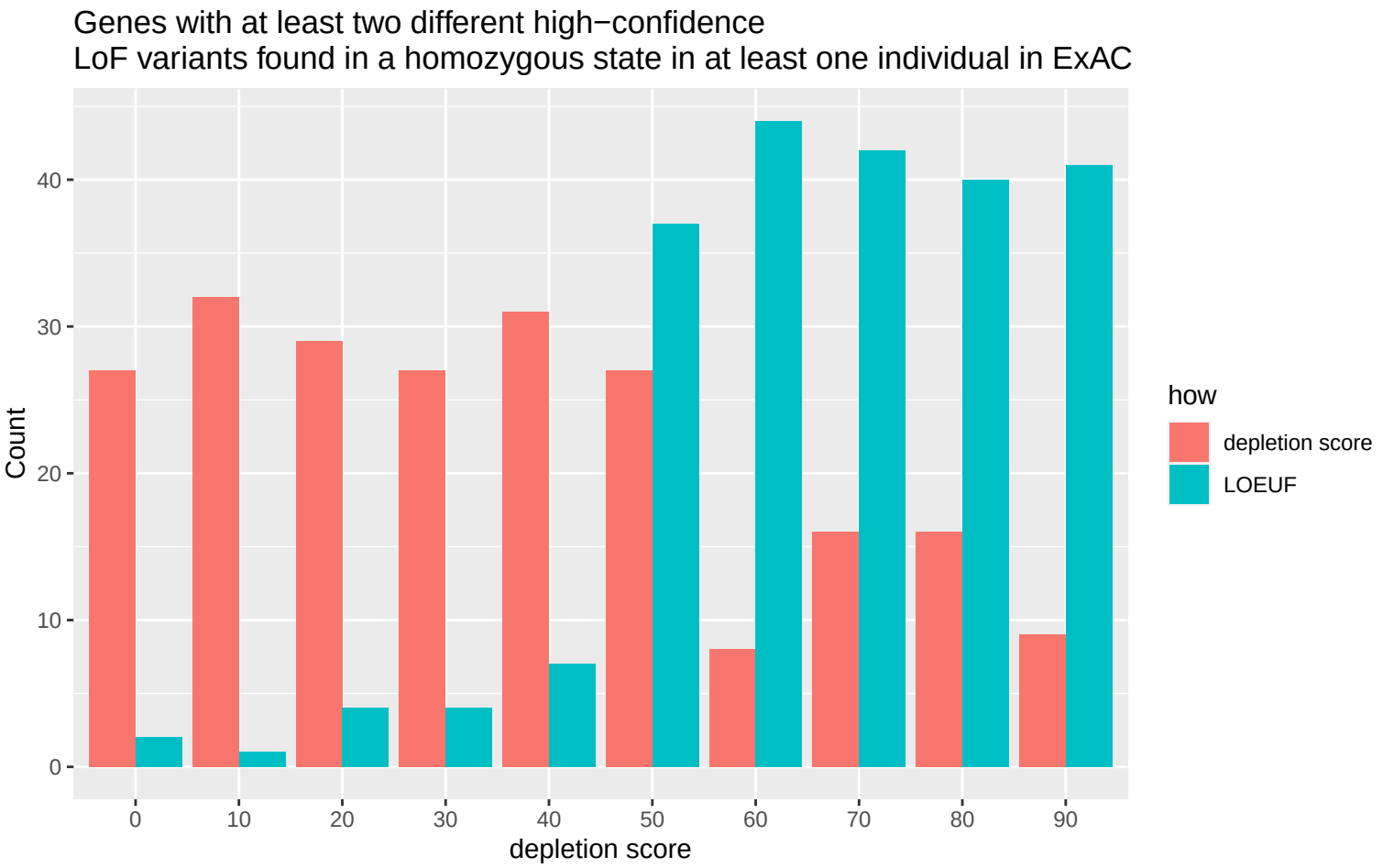

Depletion Score versus triplets
Pearson correlation = 0.4105 (P−value < 2.2e−16)
log10 (triplets)
3
2
1
0
−0.4
0.0
0.4
0.8
Depletion score

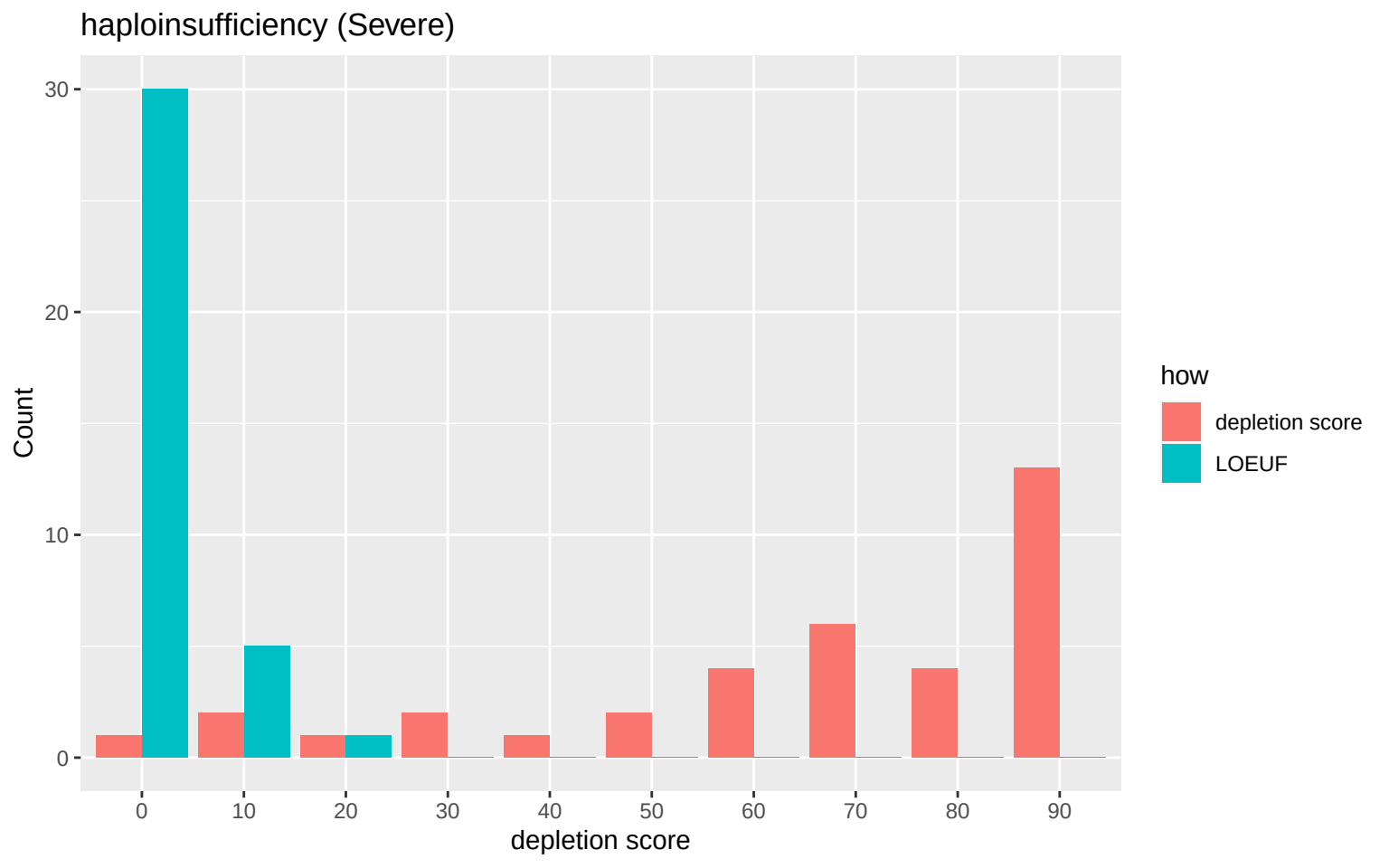

LOEUF deciles versus depletion score
Depletion score
0.8
0.4
0.0
−0.4
0
10
20
30
40
50
60
70
80
90
LOEUF deciles

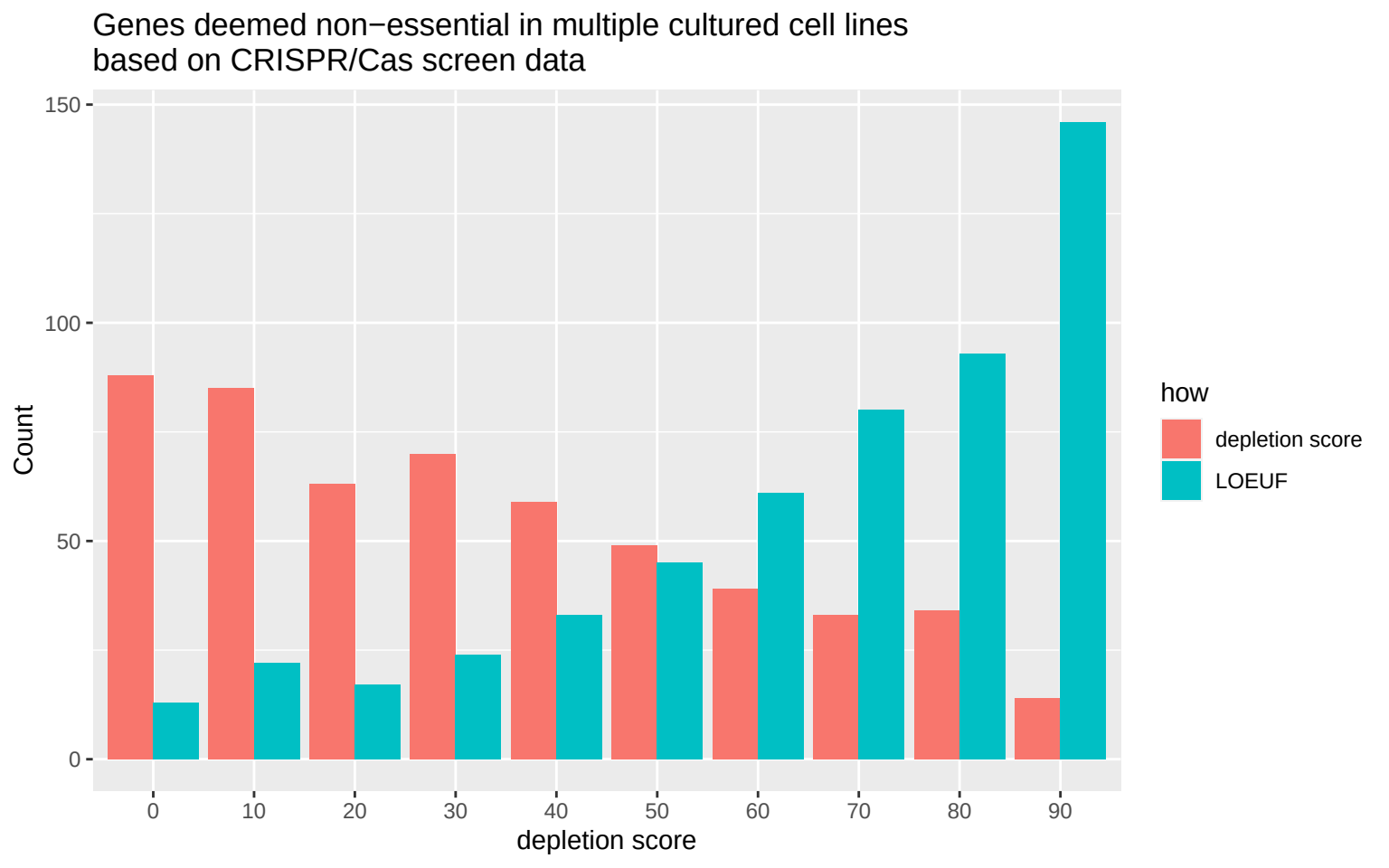

mice essential genes
Count
400
300
200
100
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF

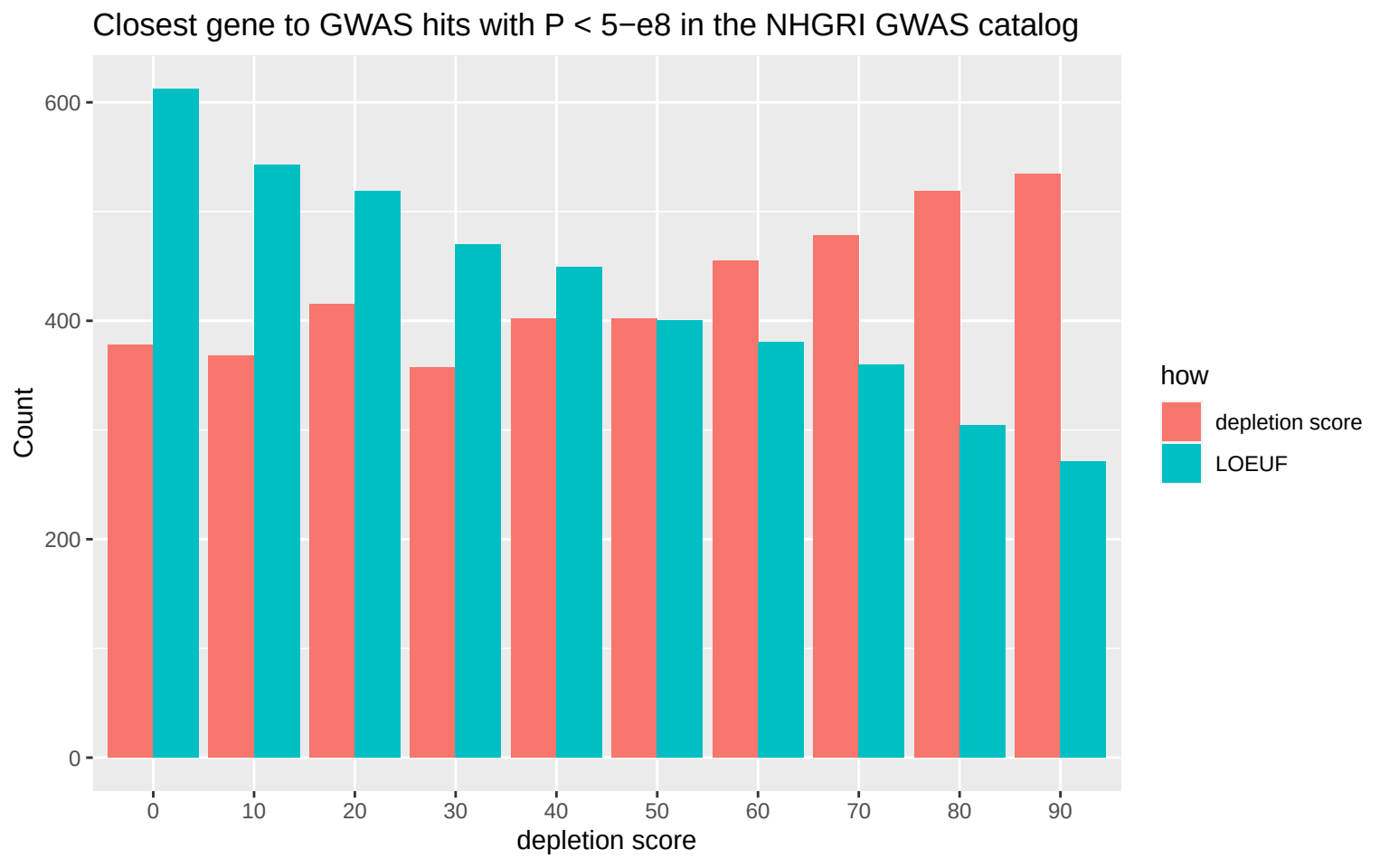

Autosomal Rescessive (Blekhman)
Count
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF

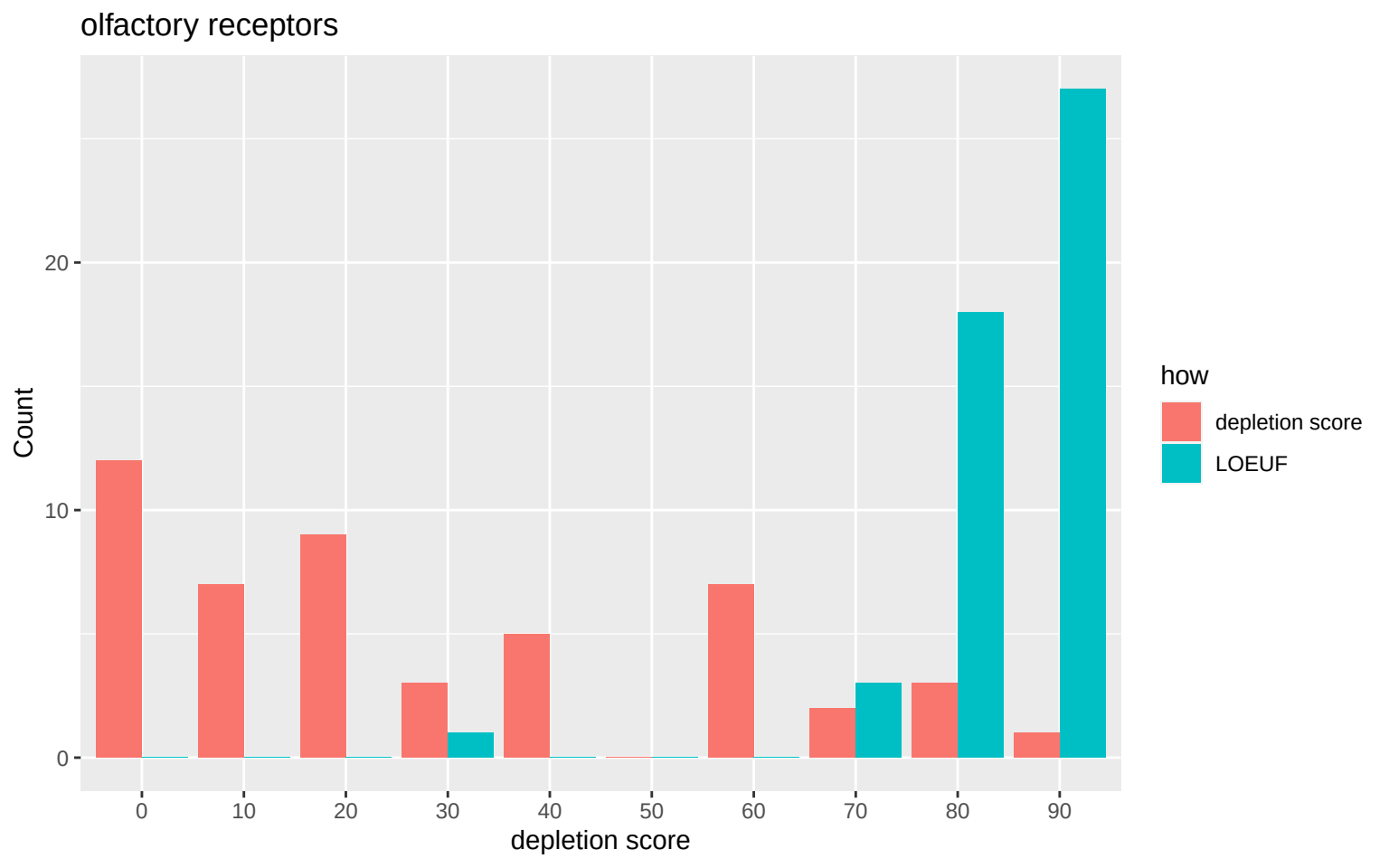

Evidence for dosage pathogenencity (Clingen, 2018)
Count
90
60
30
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF

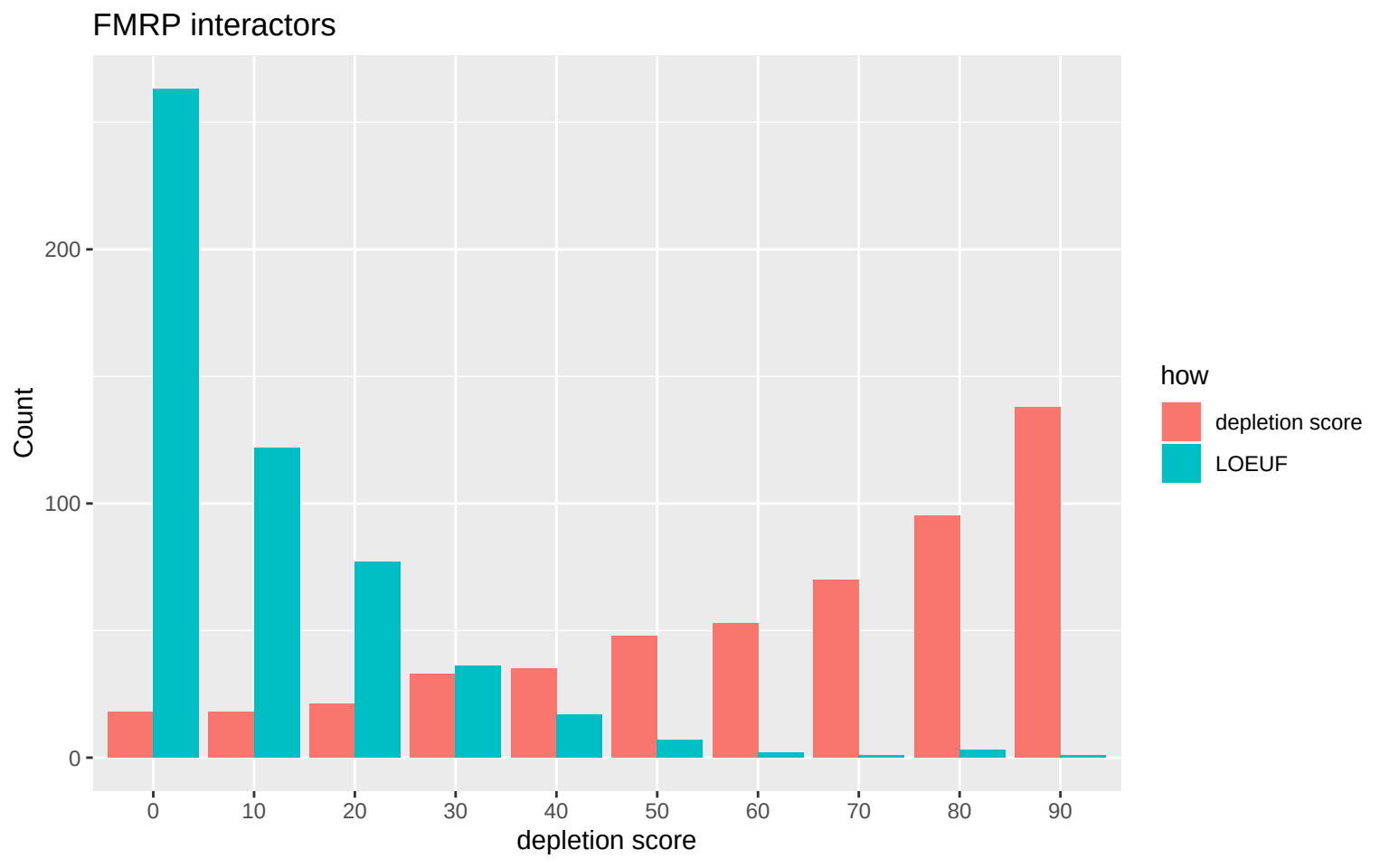

Genes with at least two different high−confidence
LoF variants found in a homozygous state in at least one individual in ExAC
Count
0
10
20
30
40
depletion score
0
10
20
30
40
50
60
70
80
90
how
depletion score
LOEUF


haploinsufficiency (Severe)
Count
30
20
10
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF


Genes deemed non−essential in multiple cultured cell lines
based on CRISPR/Cas screen data
150
100
50
0
Count
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF


Closest gene to GWAS hits with P < 5−e8 in the NHGRI GWAS catalog
Count
600
400
200
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF


olfactory receptors
Count
20
10
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF


FMRP interactors
Count
200
100
0
0
10
20
30
40
50
60
70
80
90
depletion score
how
depletion score
LOEUF