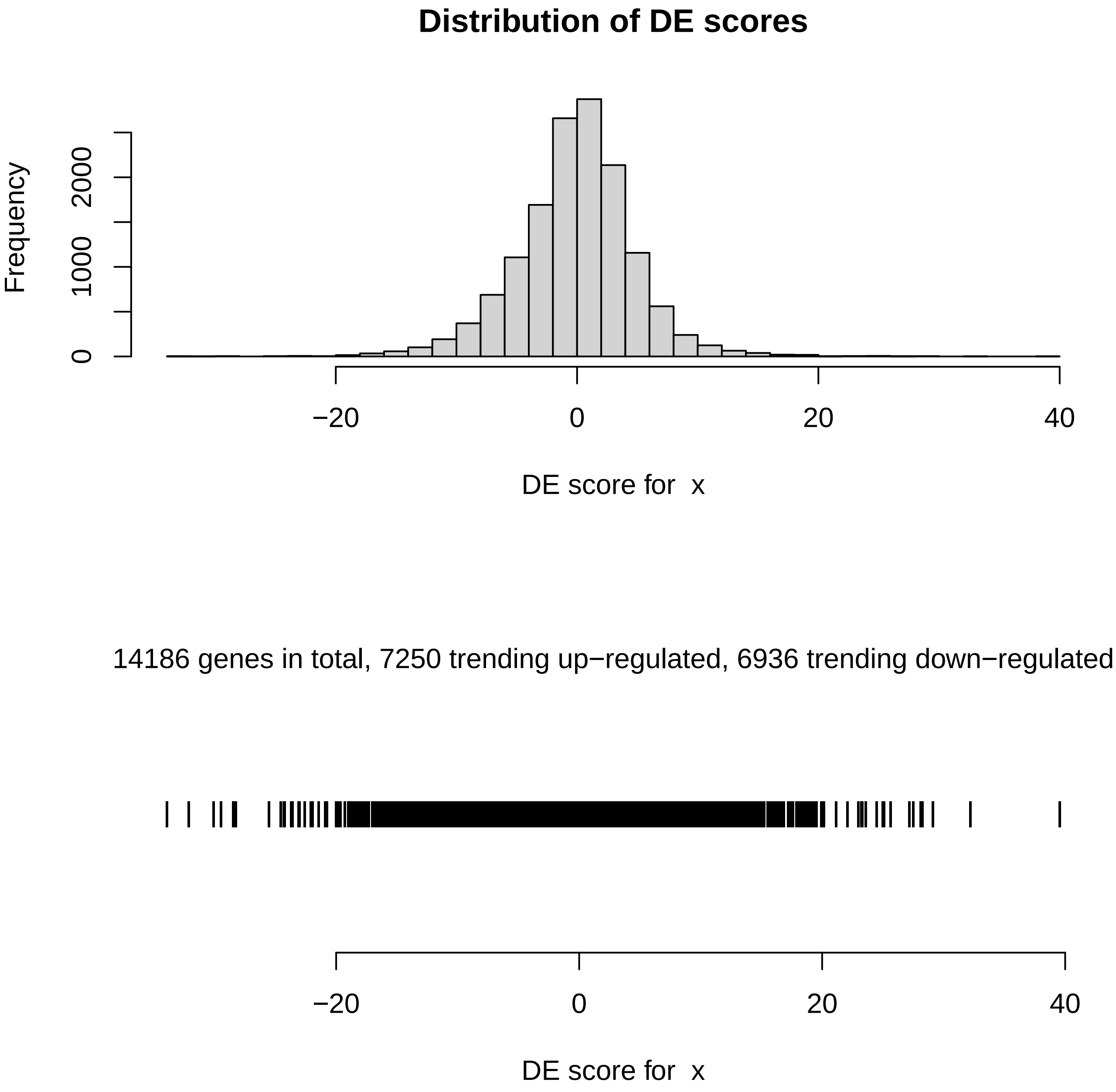
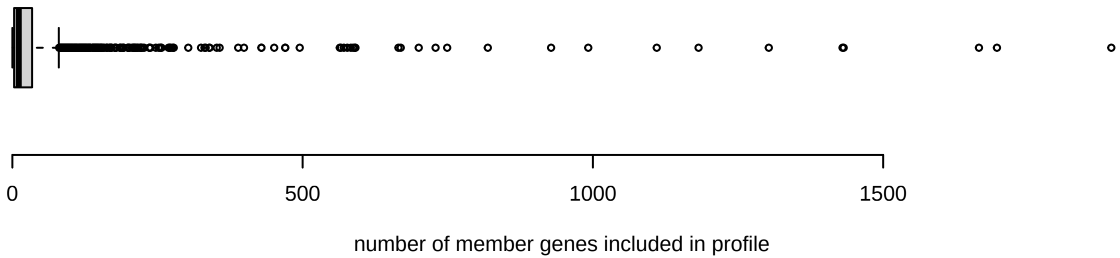
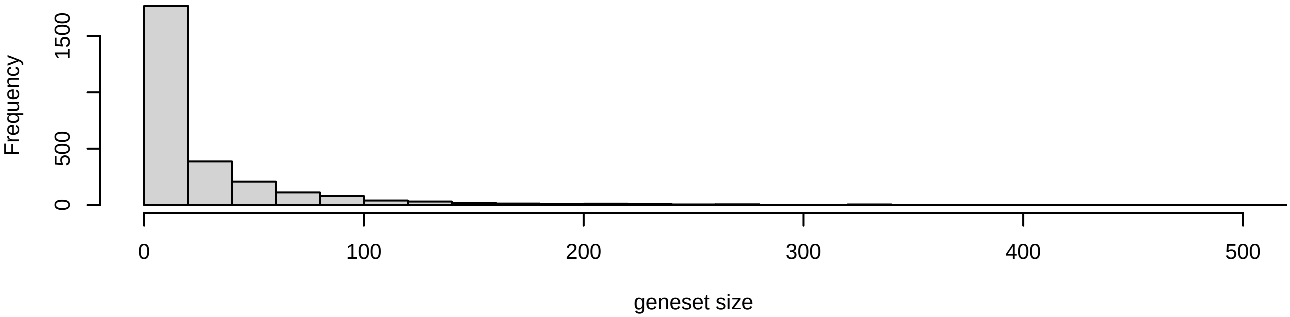

Distribution of DE scores
Frequency
0
1000
2000
−20
0
20
40
DE score for x
14186 genes in total, 7250 trending up−regulated, 6936 trending down−regulated
−20
0
20
40
DE score for x

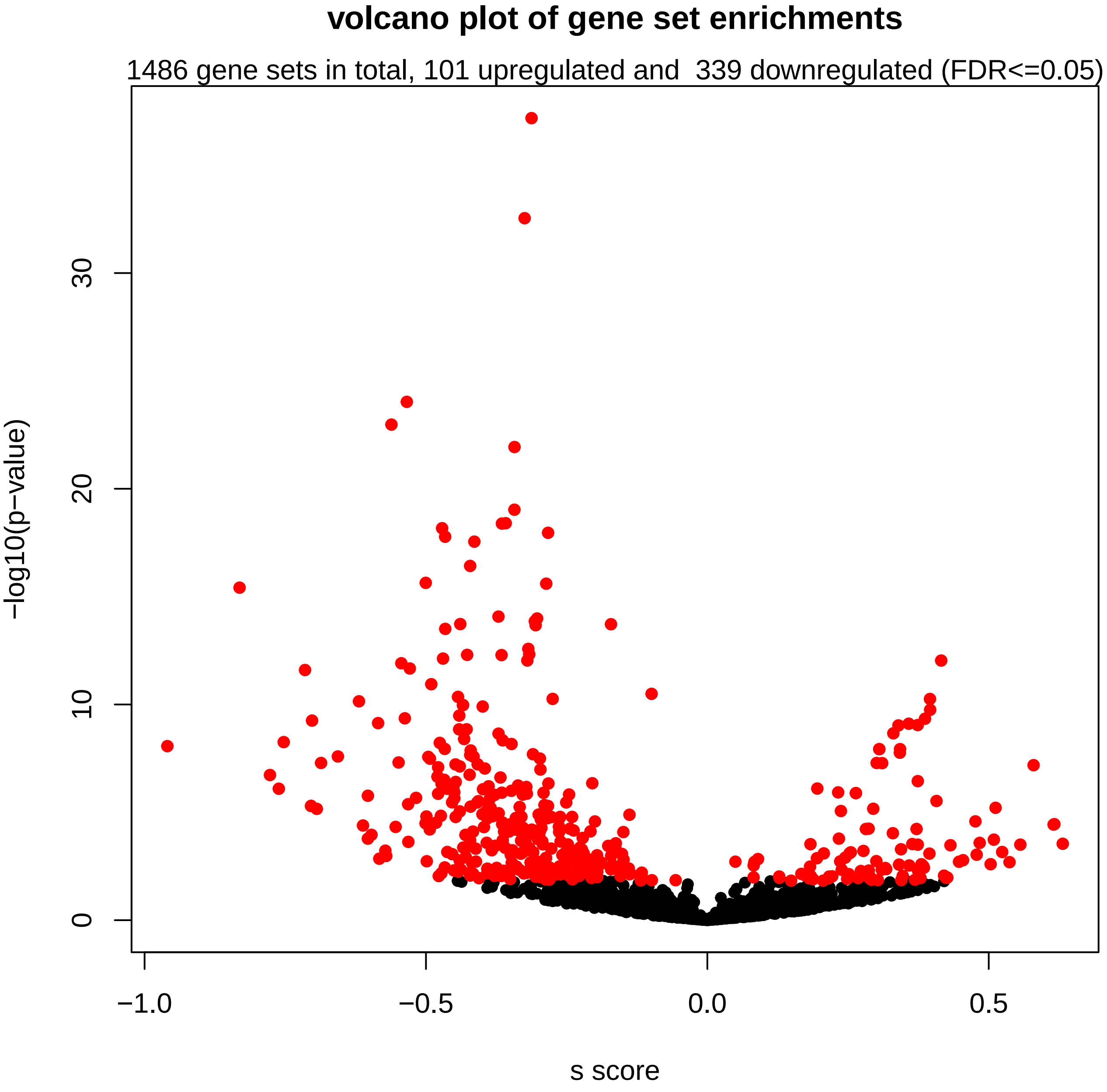


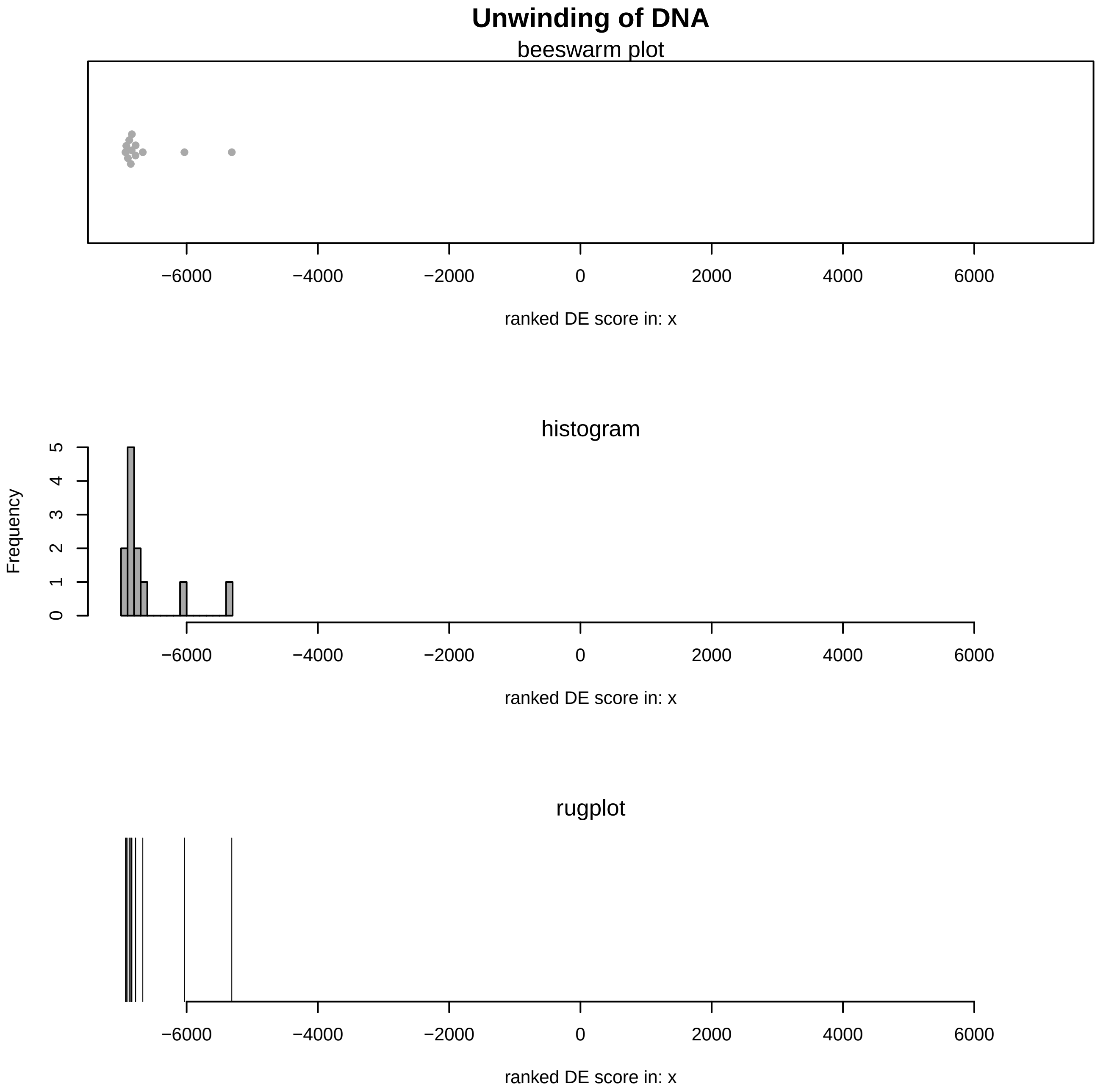
Gene set size

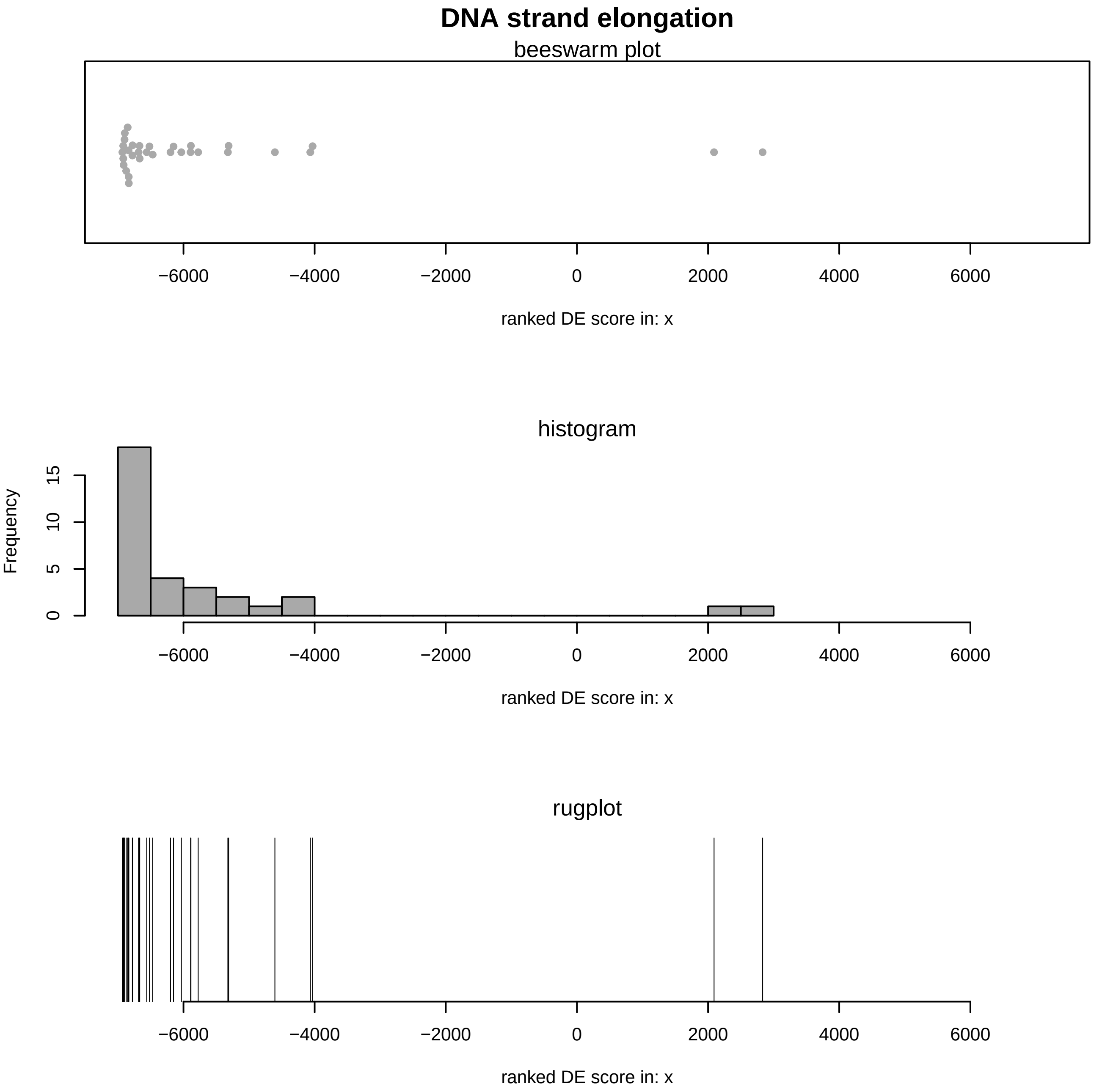
Histogram of geneset size

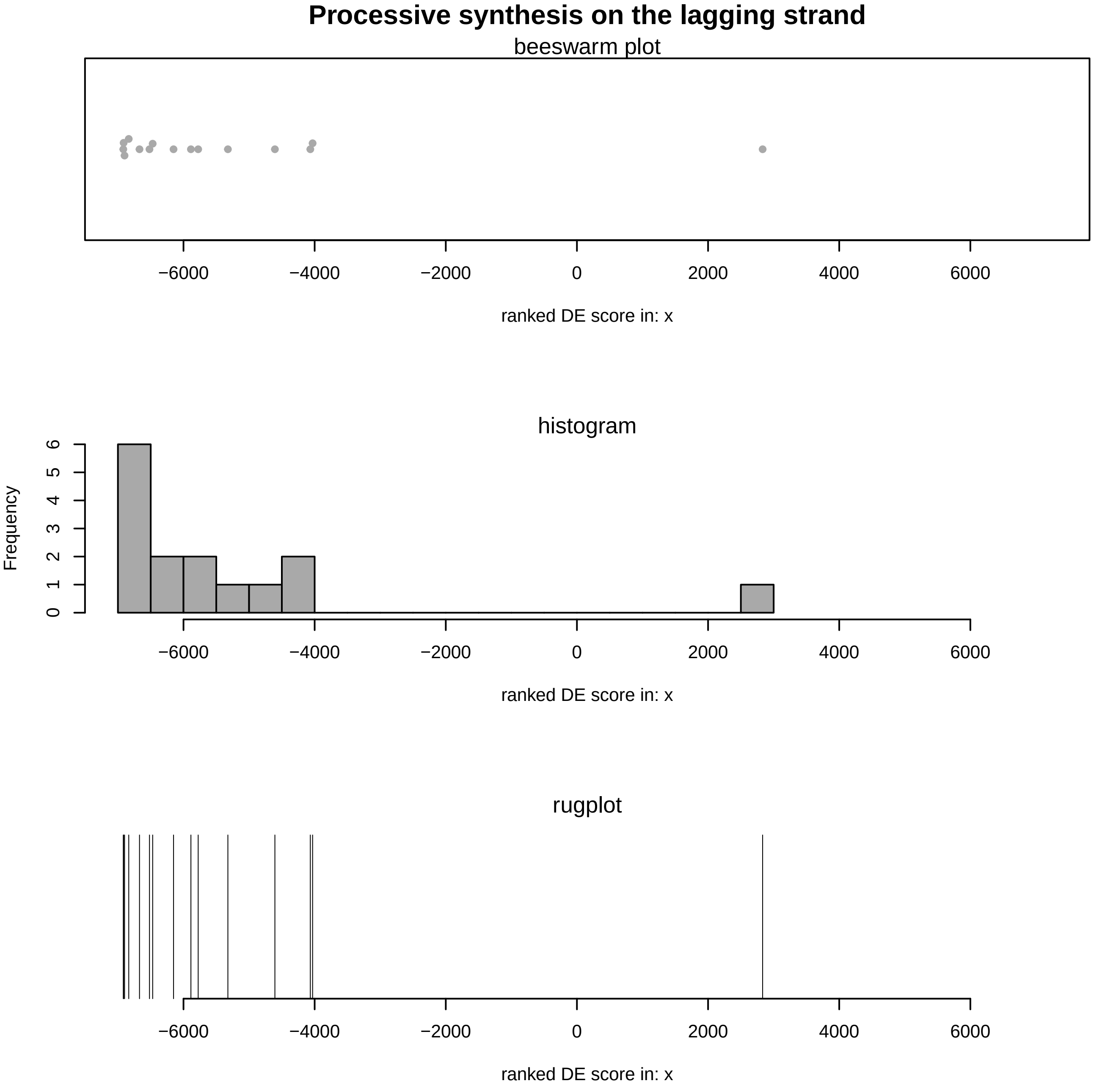


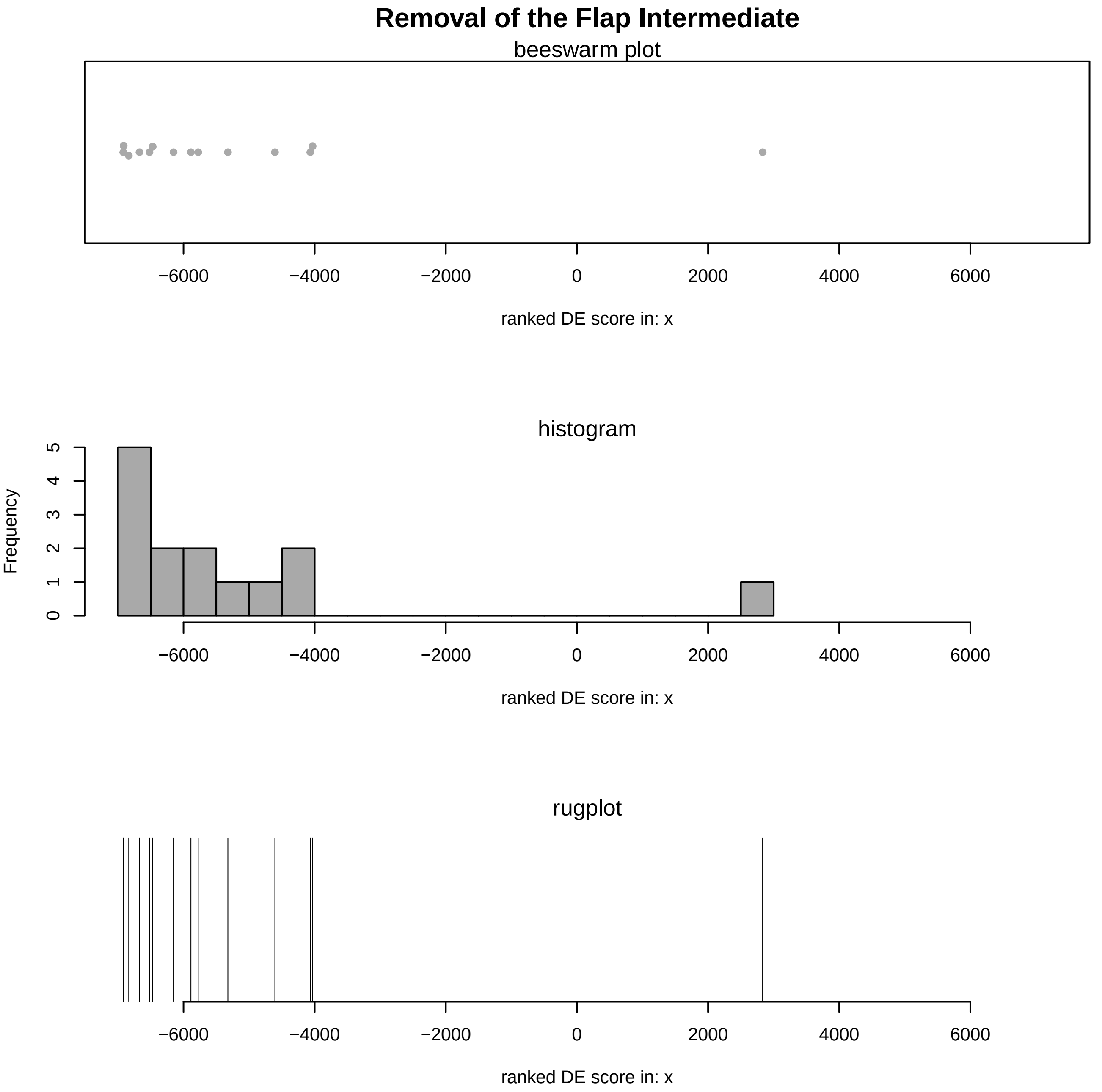
Trimmed histogram of geneset size

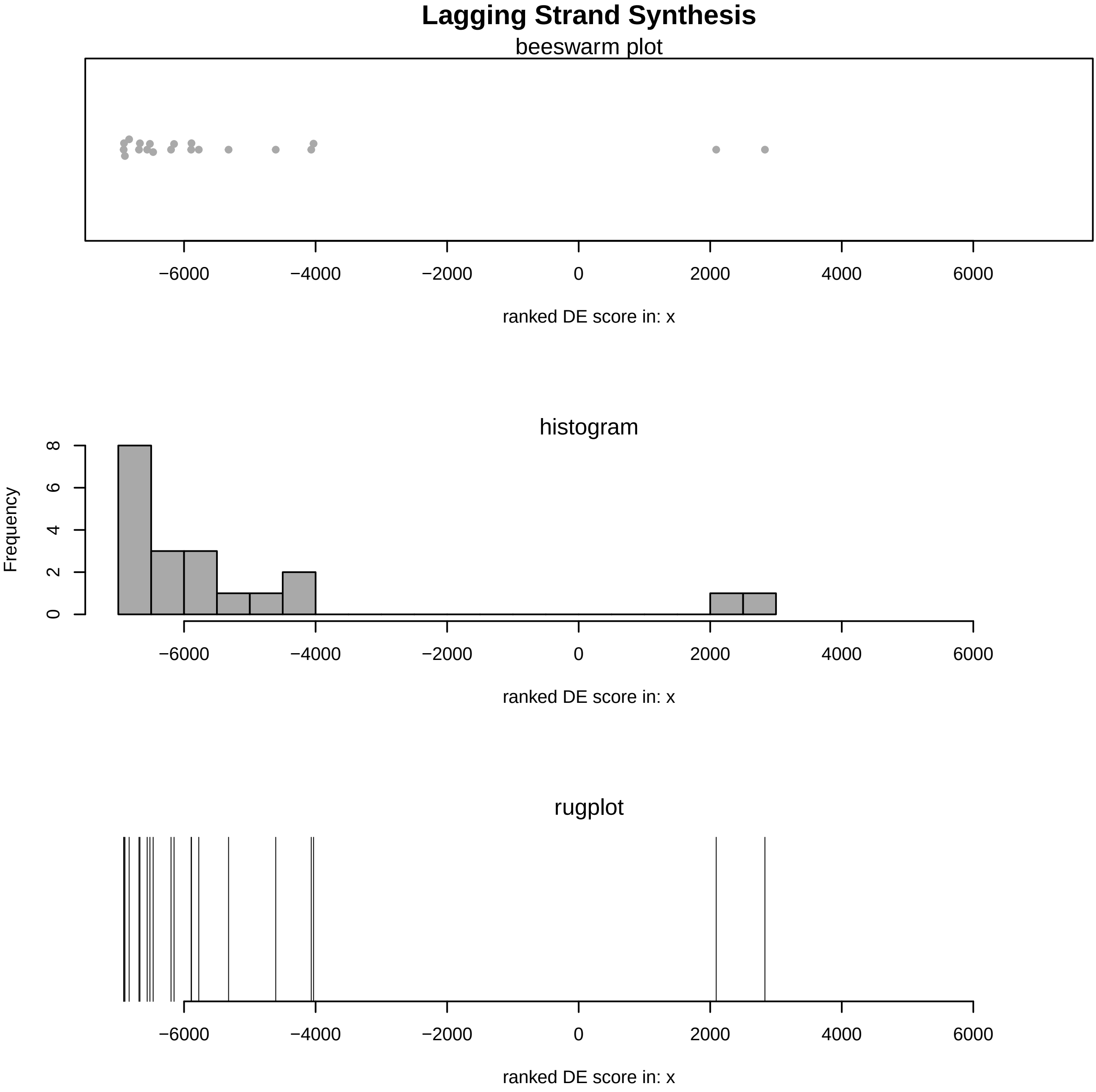

volcano plot of gene set enrichments
1486 gene sets in total, 101 upregulated and 339 downregulated (FDR<=0.05)
−log10(p−value)
0
10
20
30
−1.0
−0.5
0.0
0.5
s score

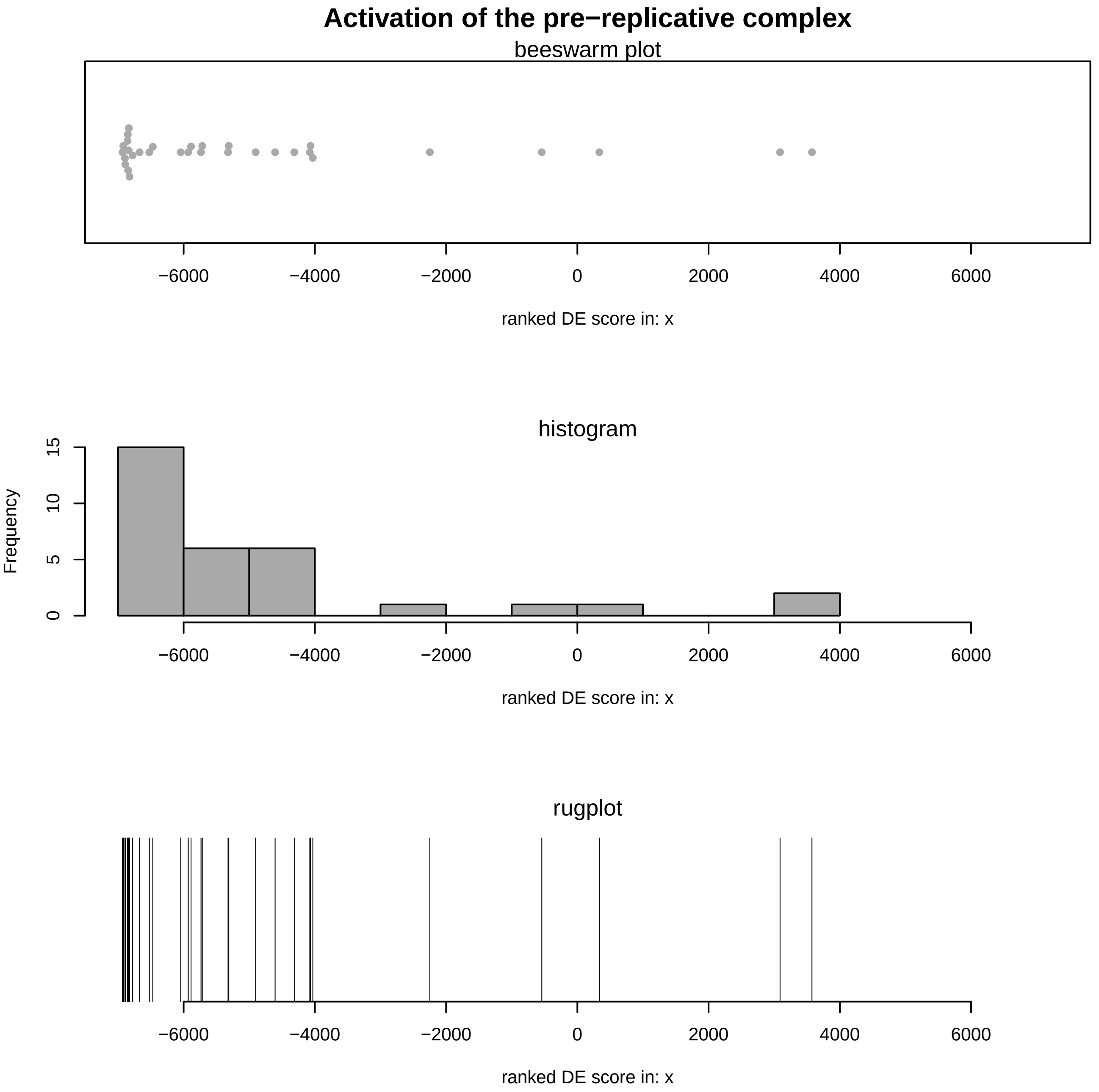

Unwinding of DNA
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


DNA strand elongation
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
5
10
15
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Processive synthesis on the lagging strand
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
6
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Removal of the Flap Intermediate
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

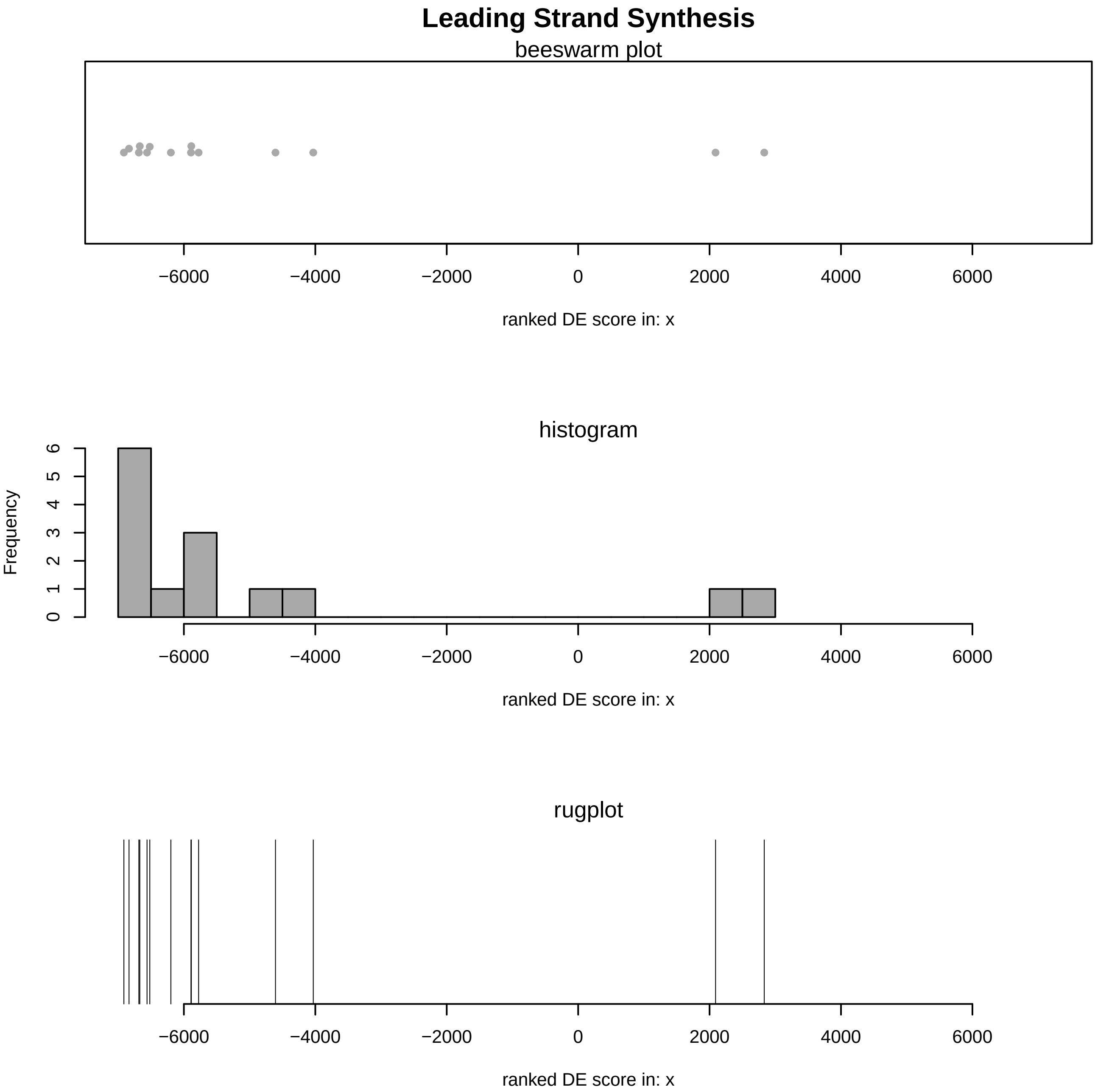

Lagging Strand Synthesis
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

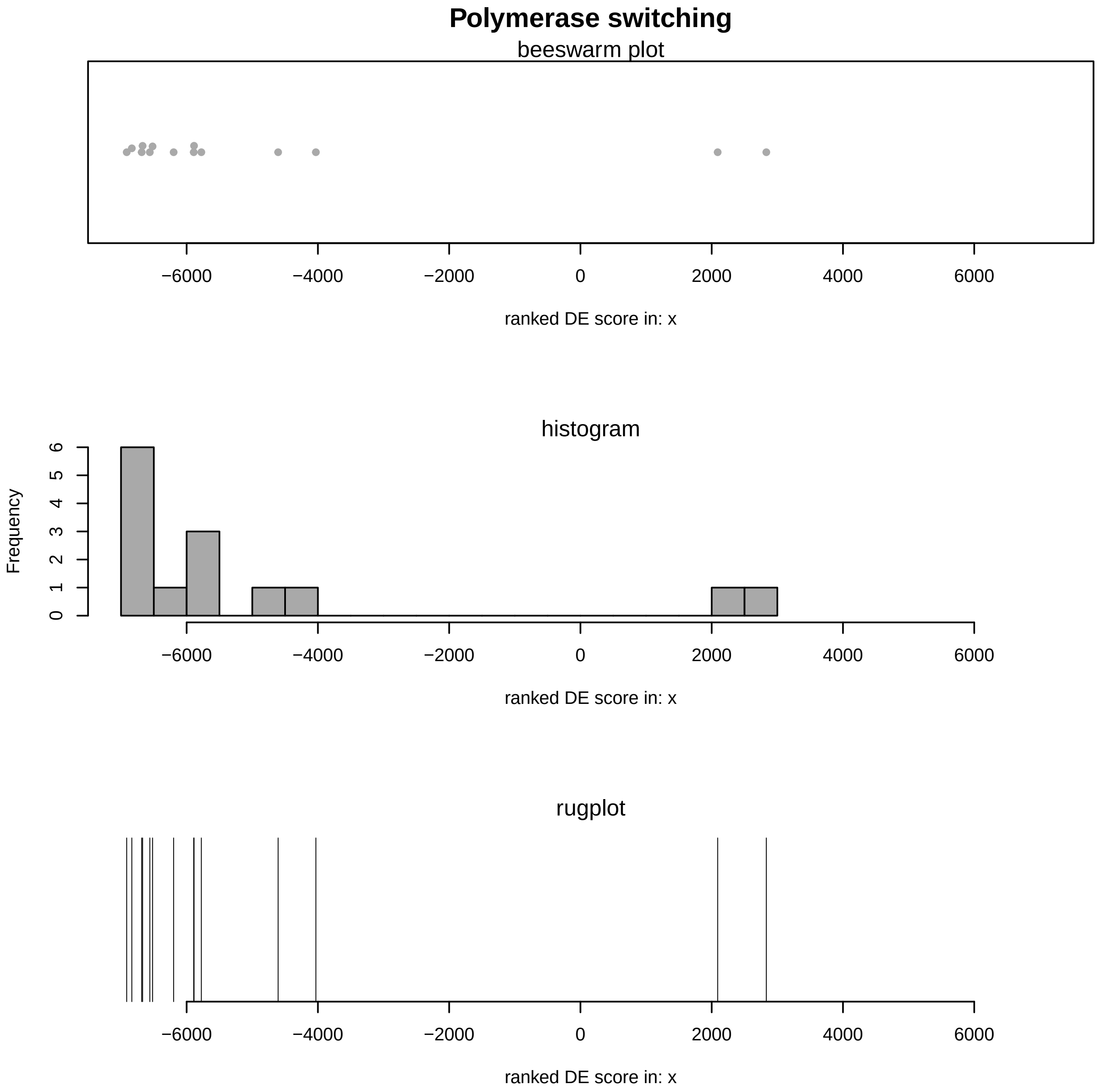

Activation of the pre−replicative complex

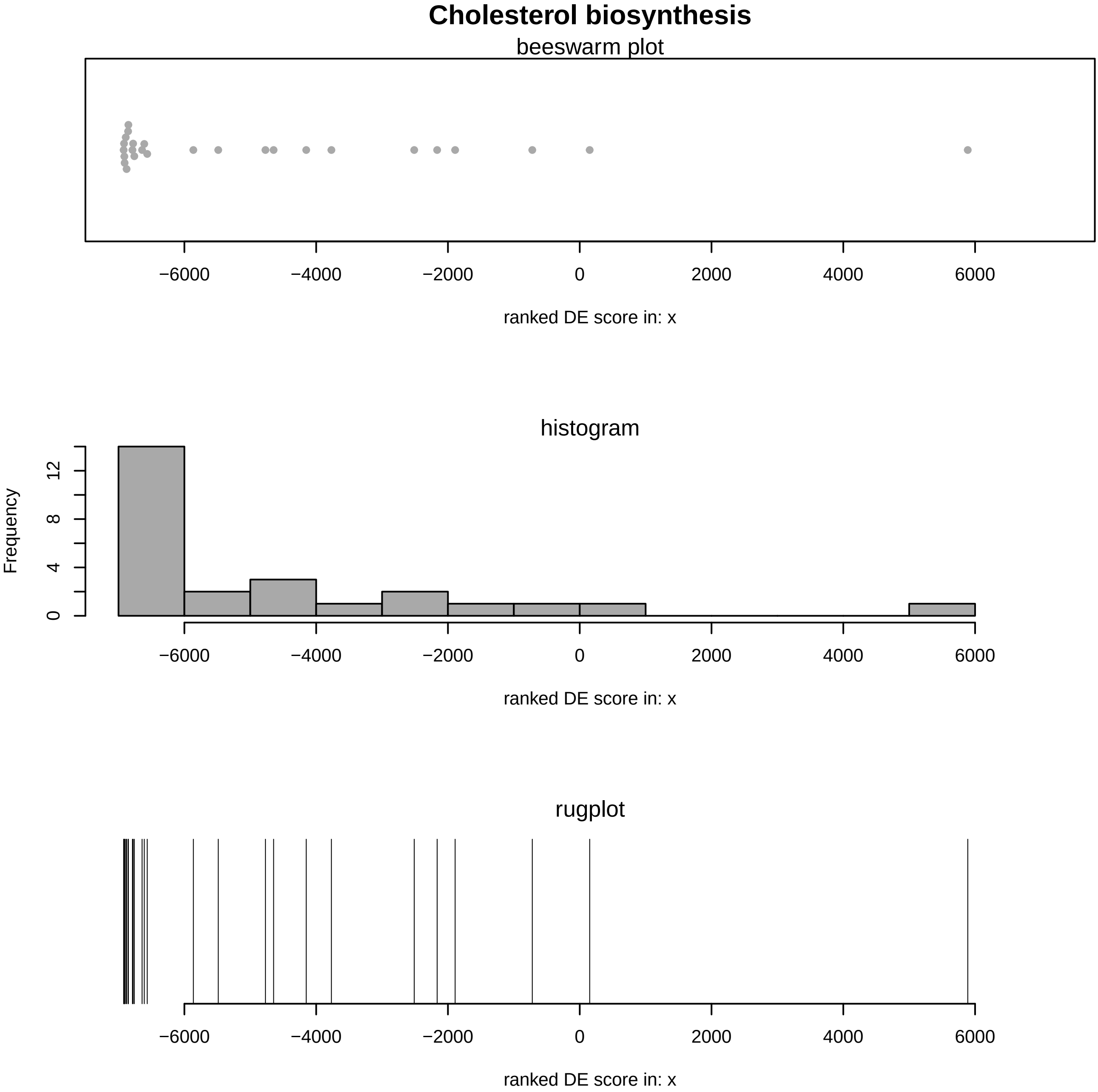
beeswarm plot

histogram

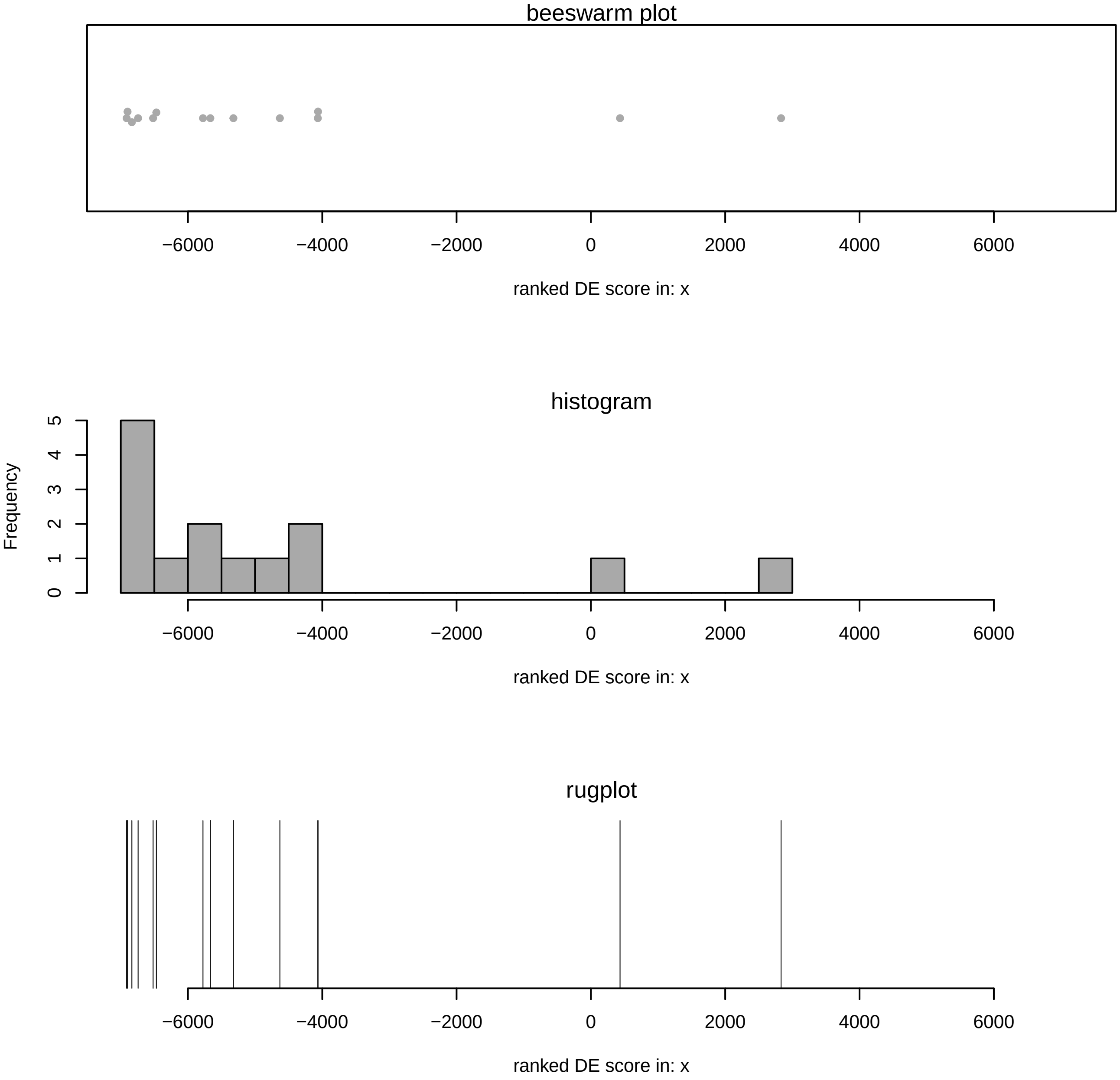
rugplot


Leading Strand Synthesis
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
6
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Polymerase switching
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
6
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

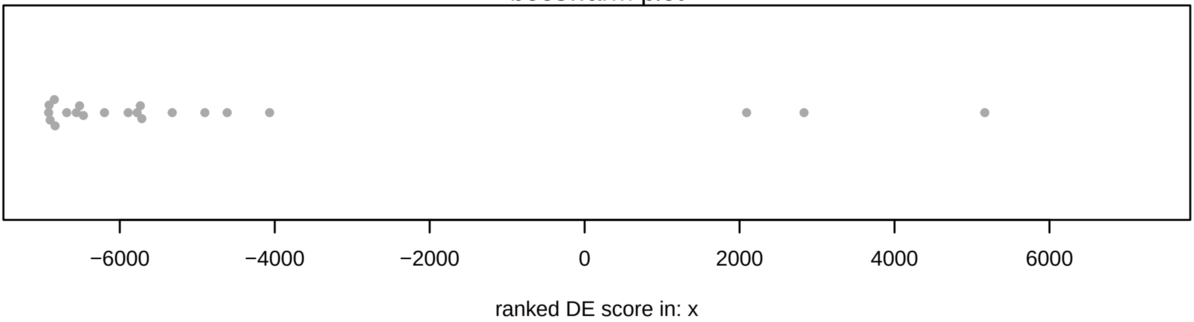

Cholesterol biosynthesis
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
4
8
12
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

Mismatch repair (MMR) directed by MSH2:MSH6 (MutSalpha)

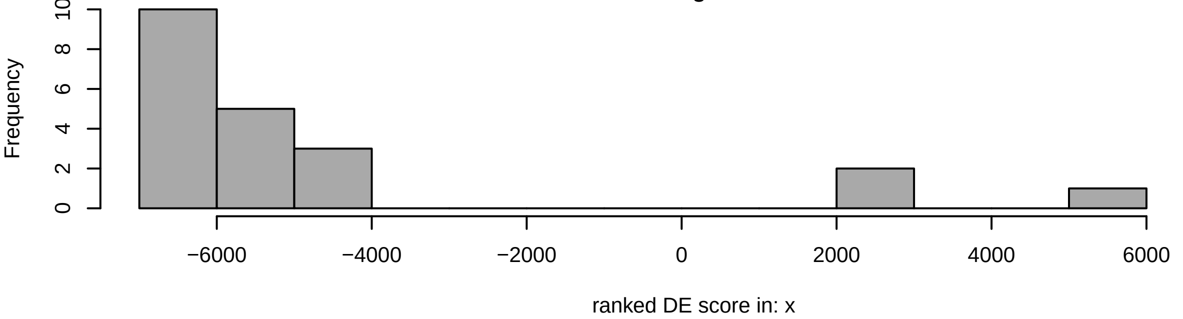


PCNA−Dependent Long Patch Base Excision Repair

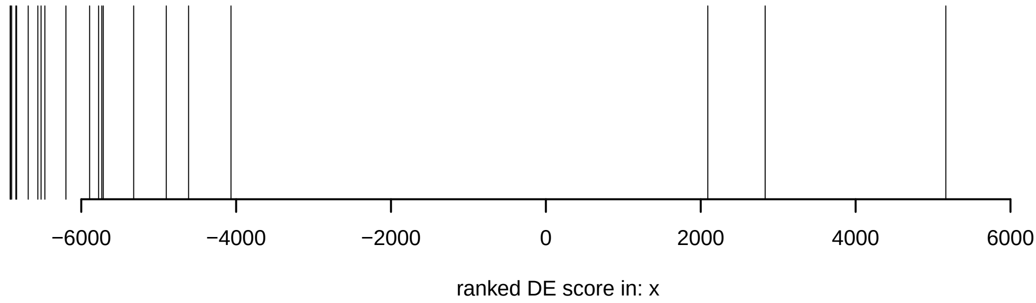
beeswarm plot

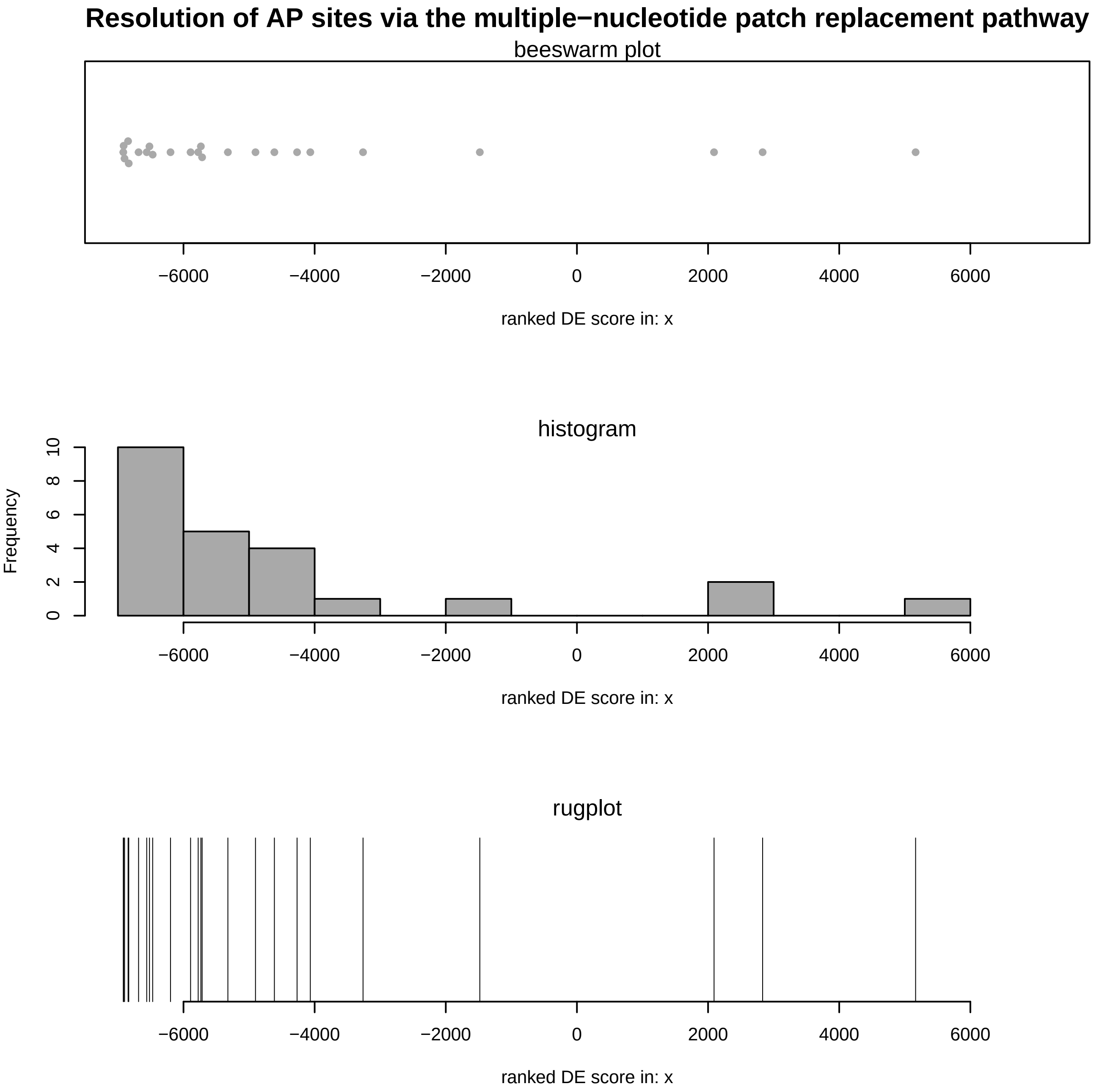


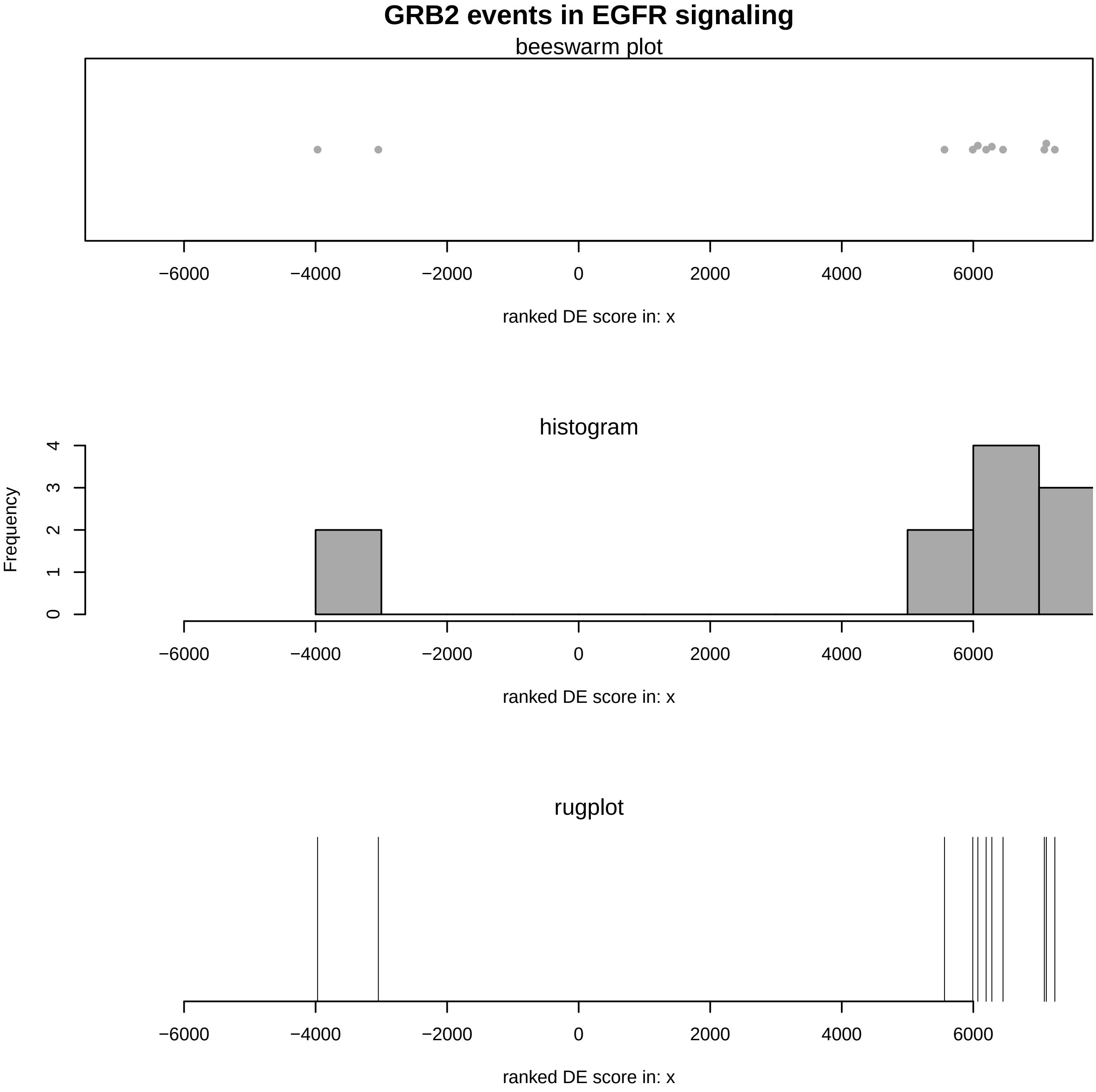
histogram

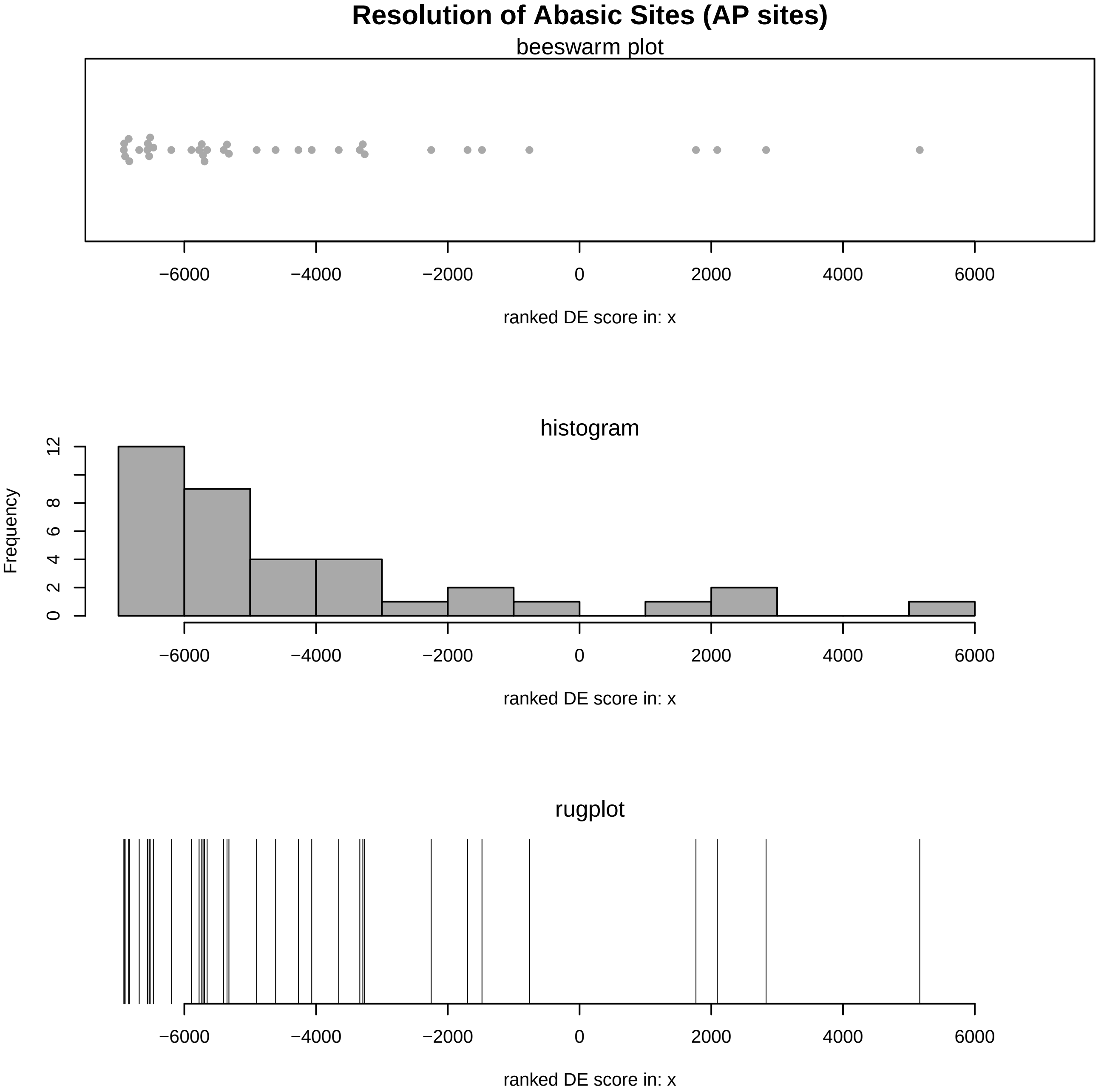


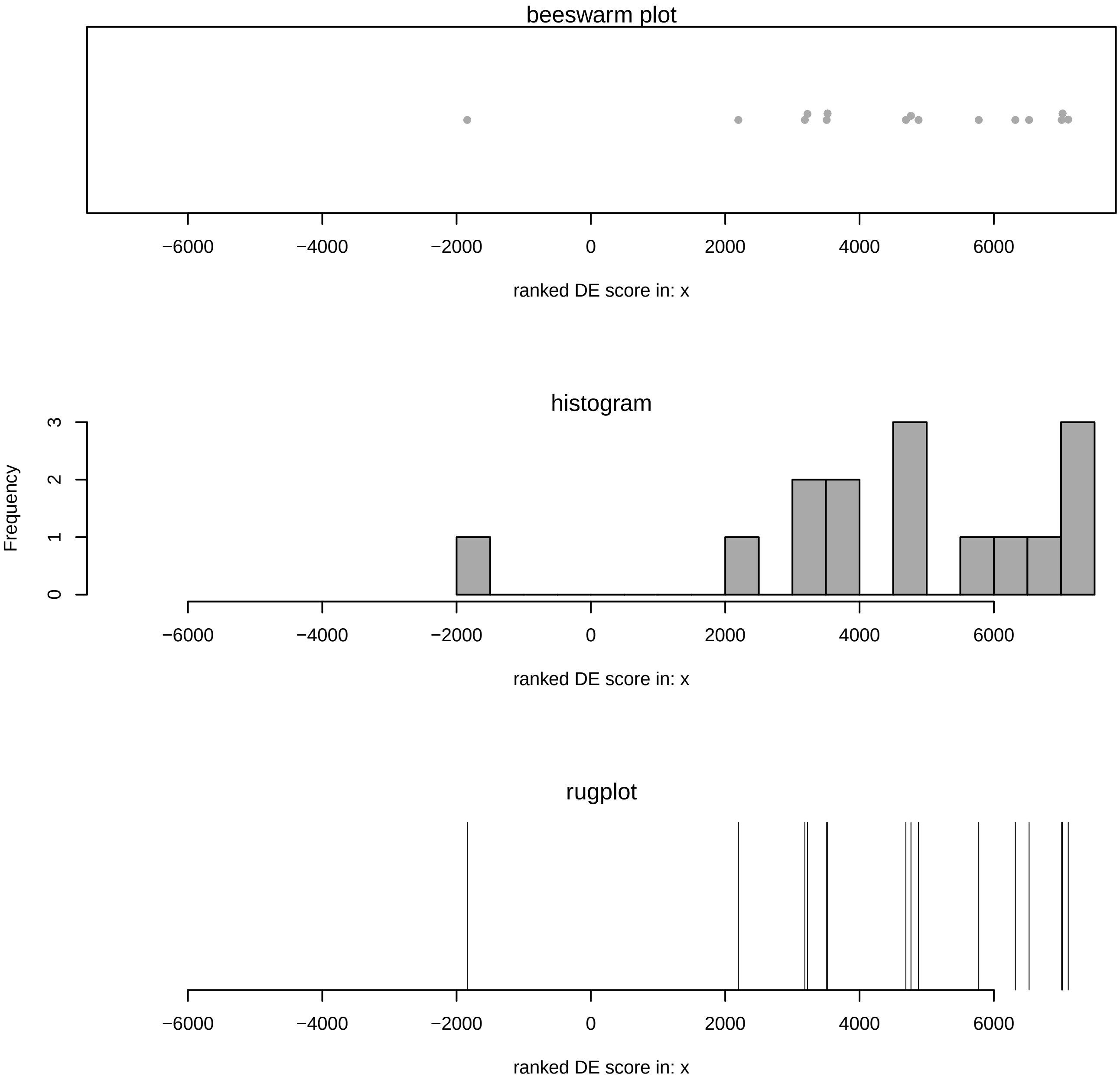
rugplot




Resolution of AP sites via the multiple−nucleotide patch replacement pathway
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
10
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

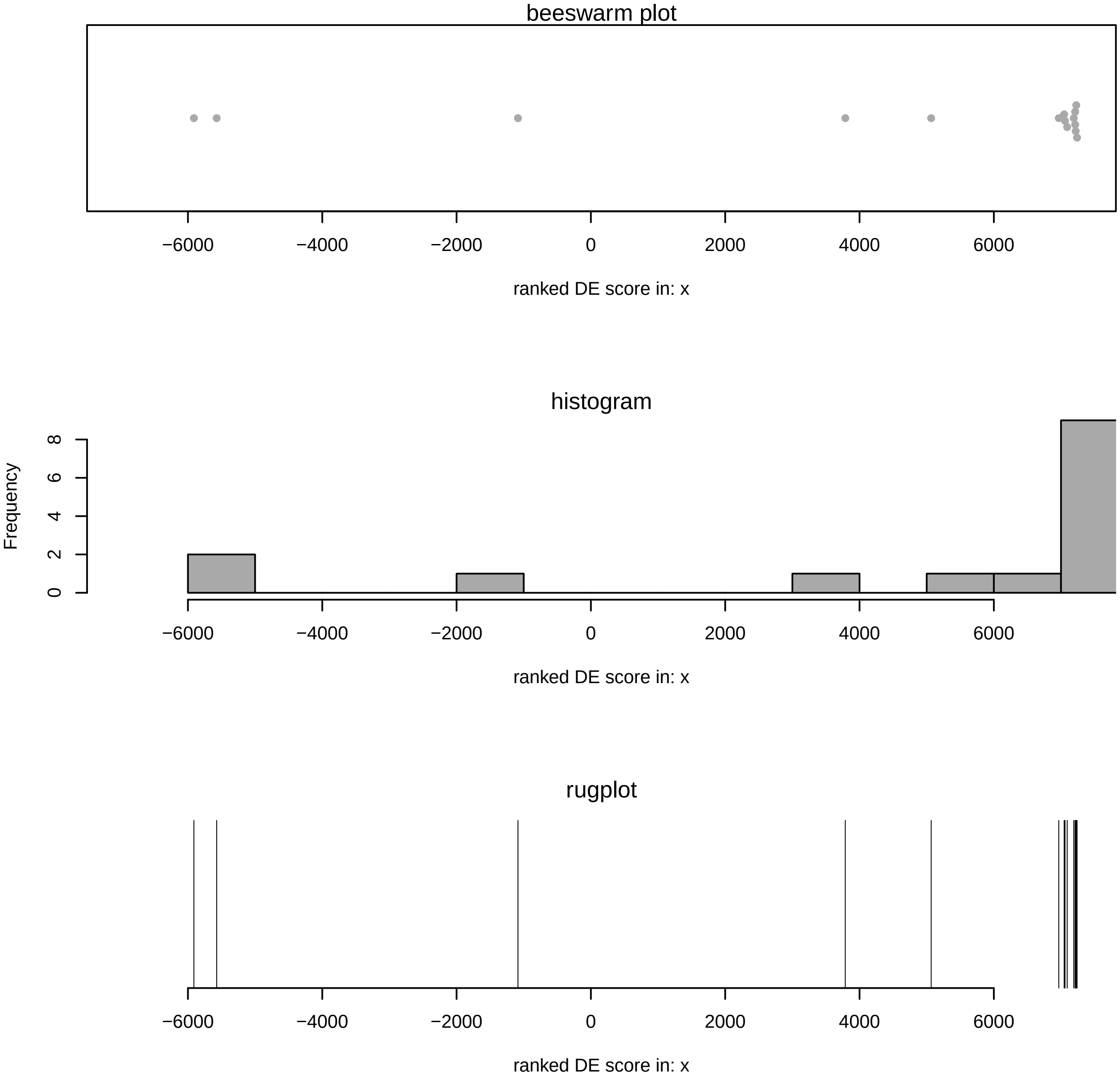

GRB2 events in EGFR signaling
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

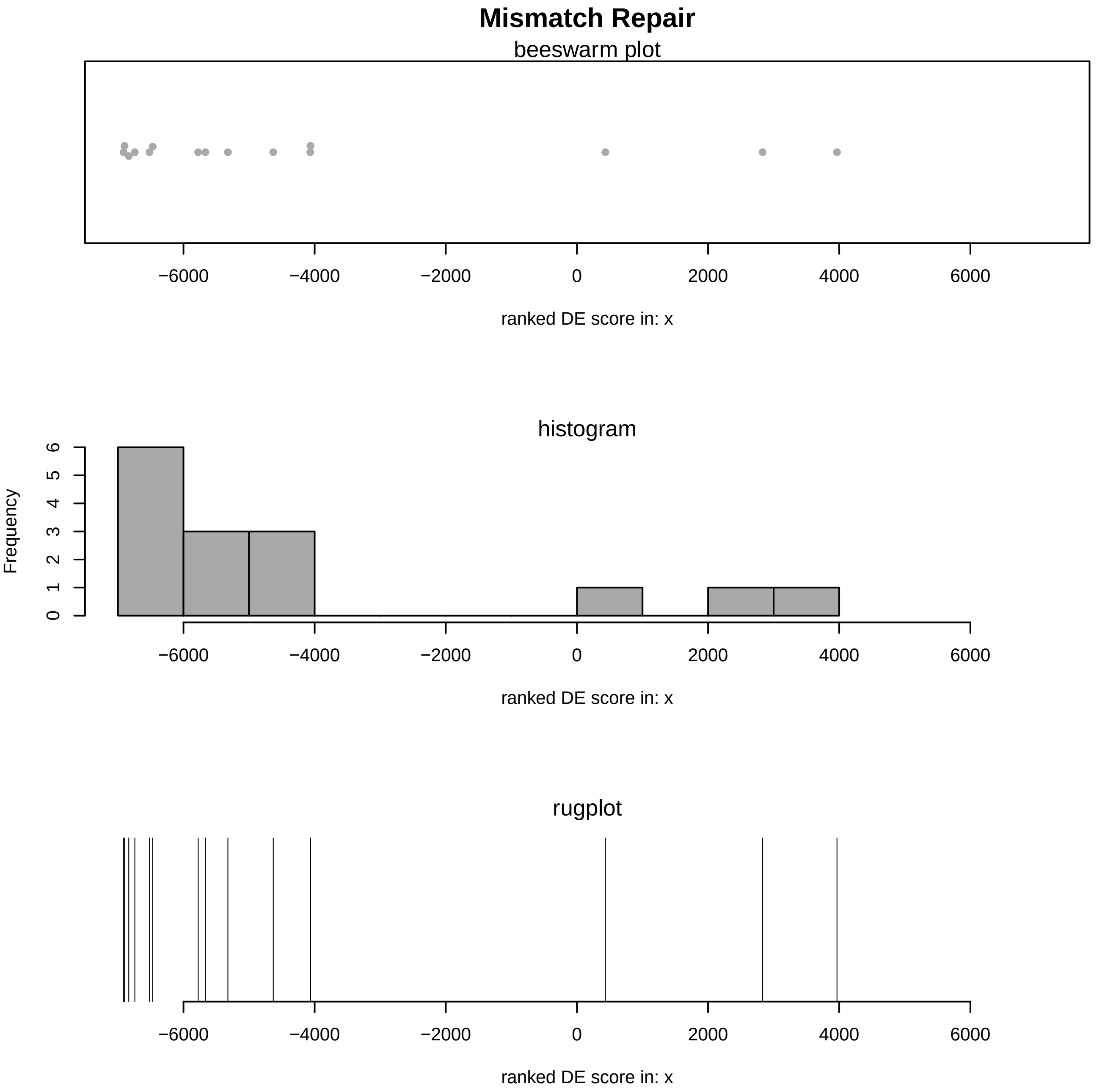

Resolution of Abasic Sites (AP sites)
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
12
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

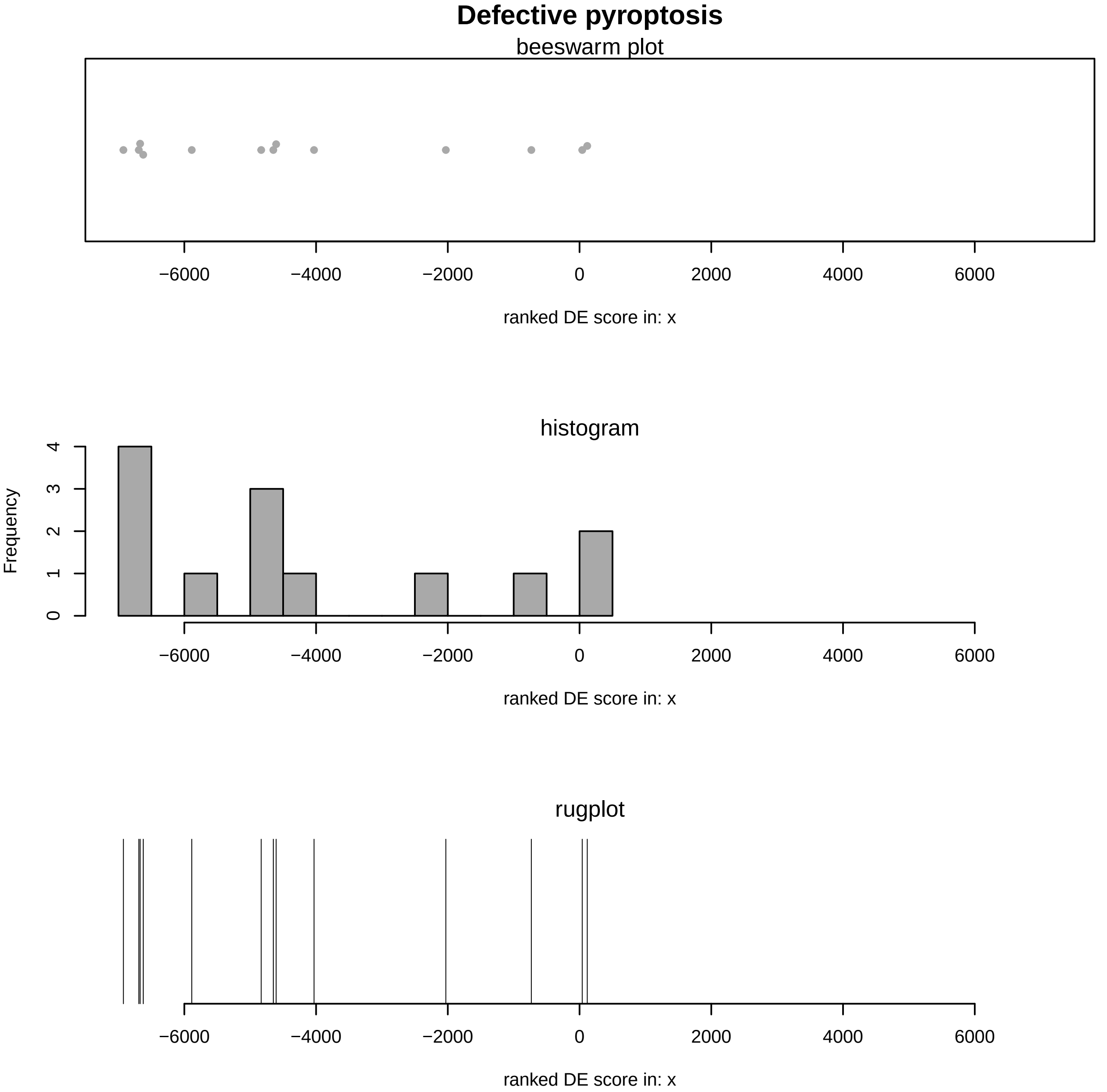


FOXO−mediated transcription of cell cycle genes

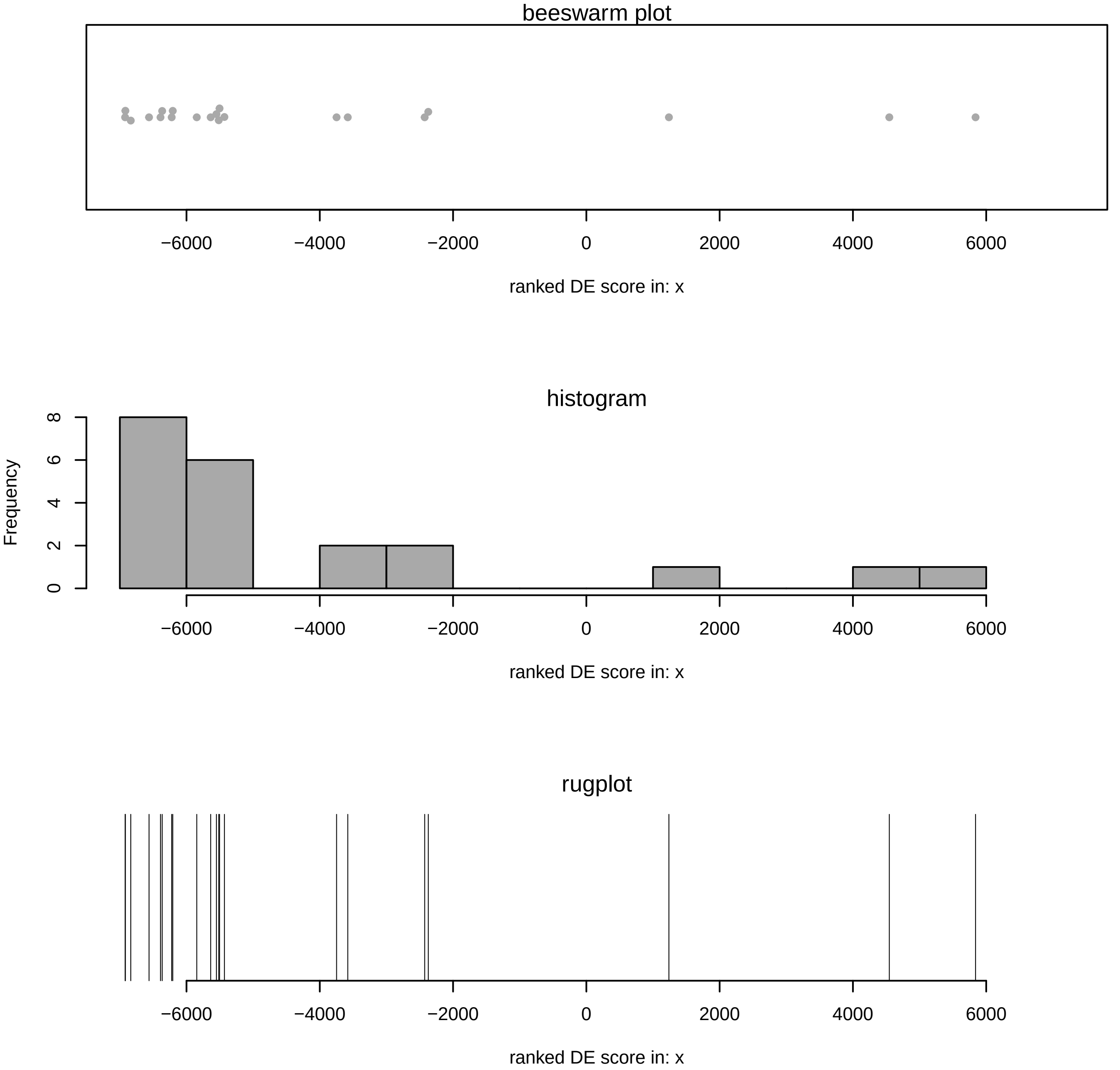
Response of EIF2AK1 (HRI) to heme deficiency




Mismatch Repair
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
6
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Defective pyroptosis
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

Formation of tubulin folding intermediates by CCT/TriC

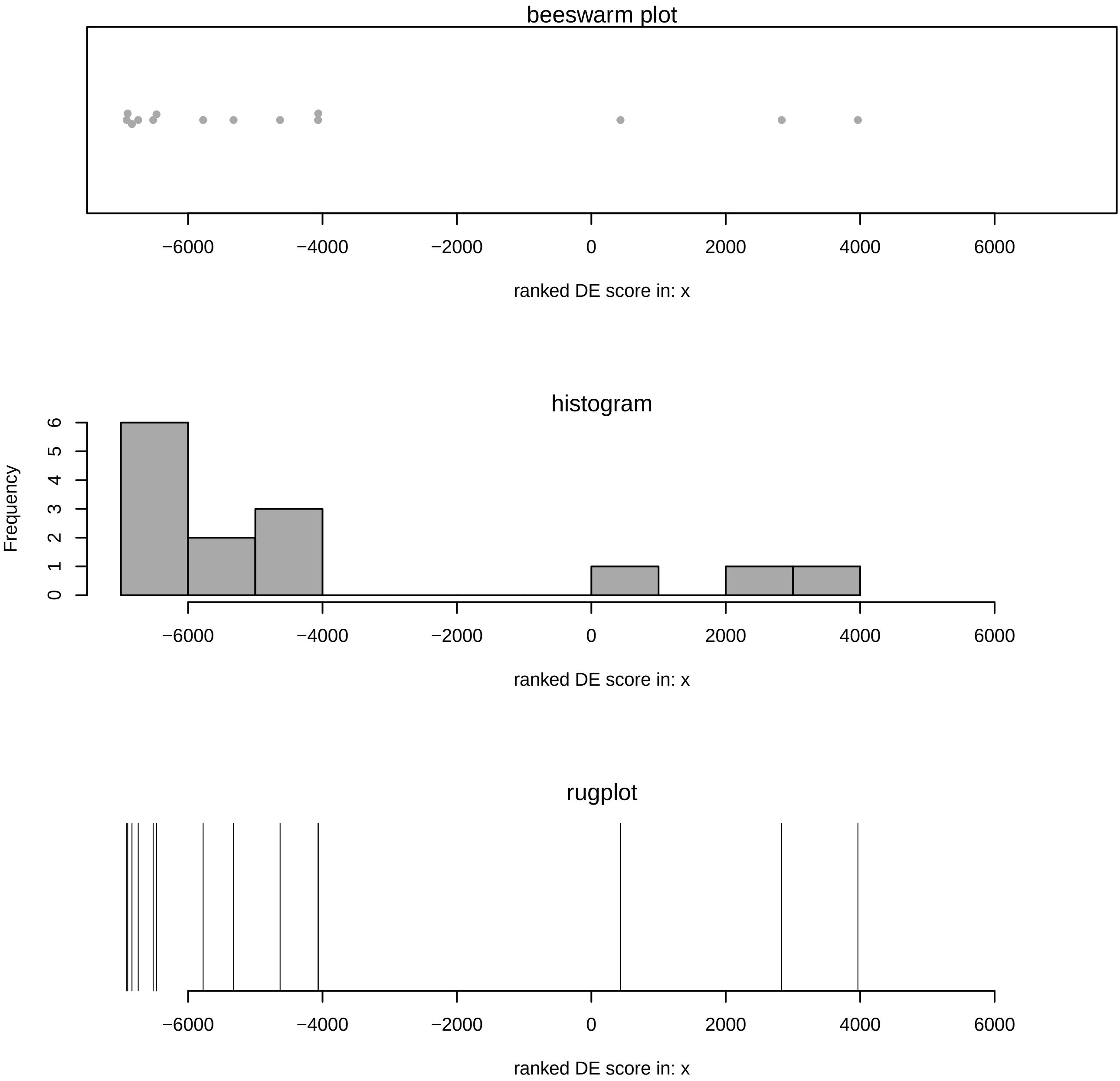


beeswarm plot

histogram

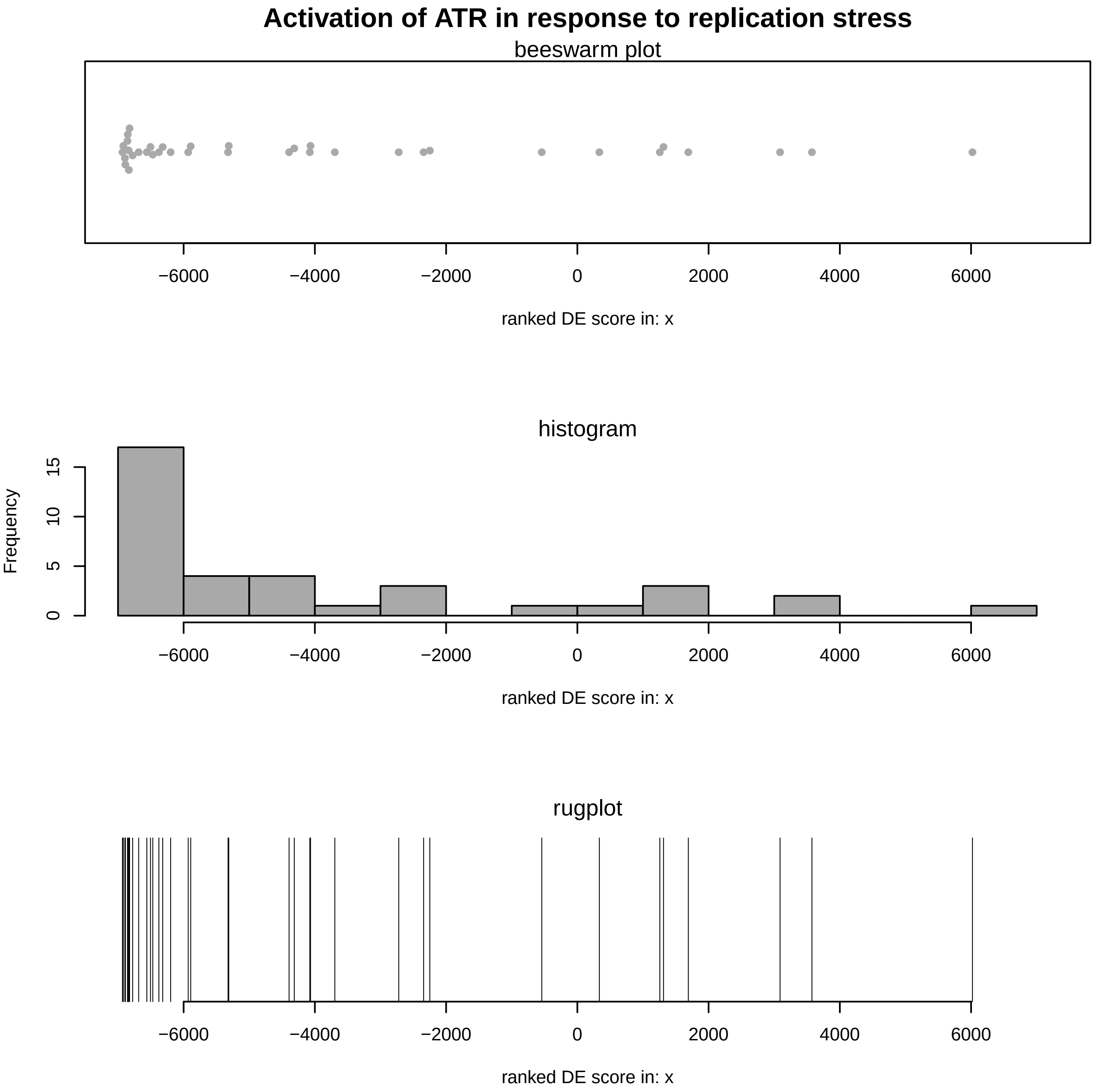
rugplot

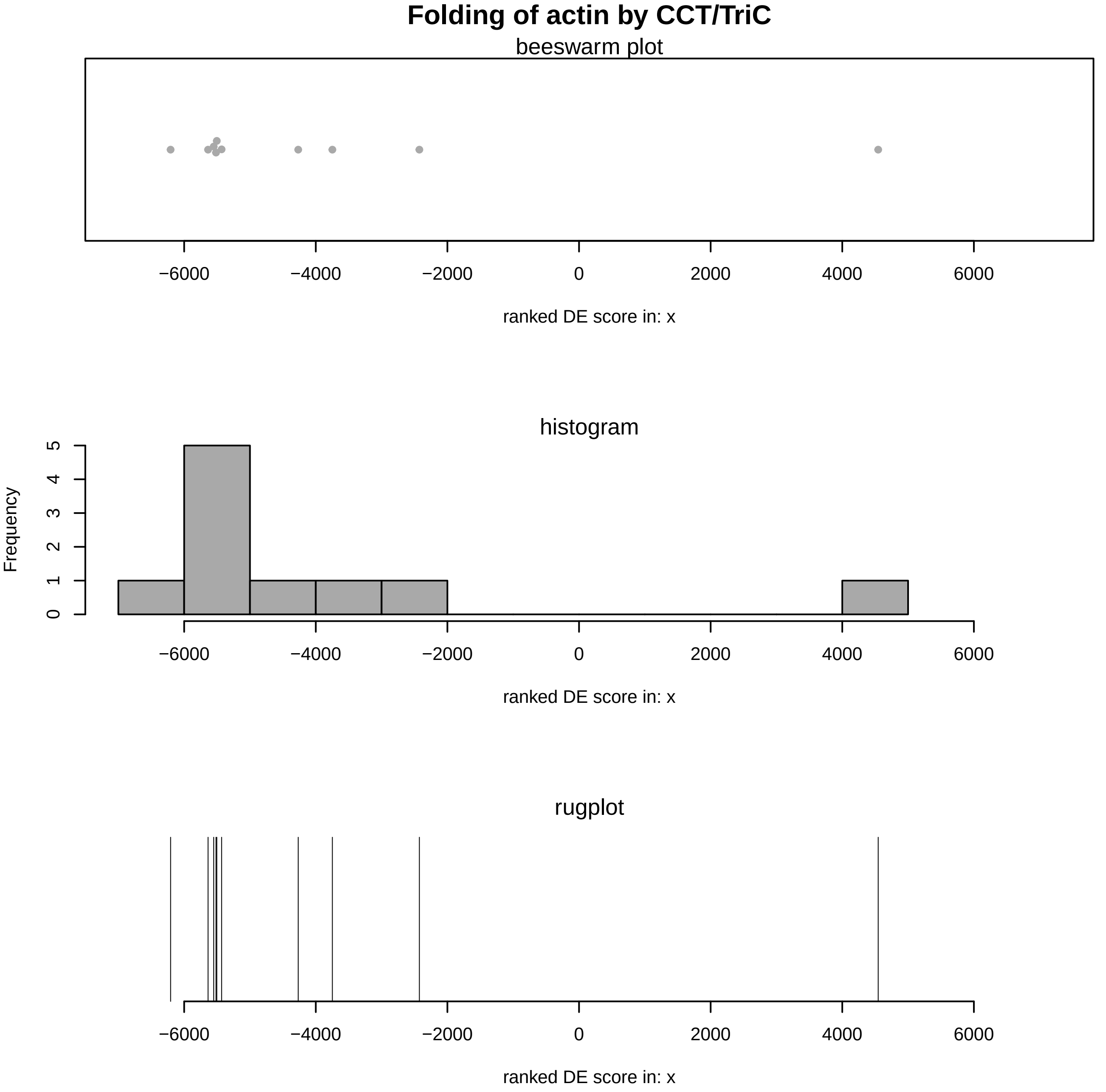
Mismatch repair (MMR) directed by MSH2:MSH3 (MutSbeta)


beeswarm plot

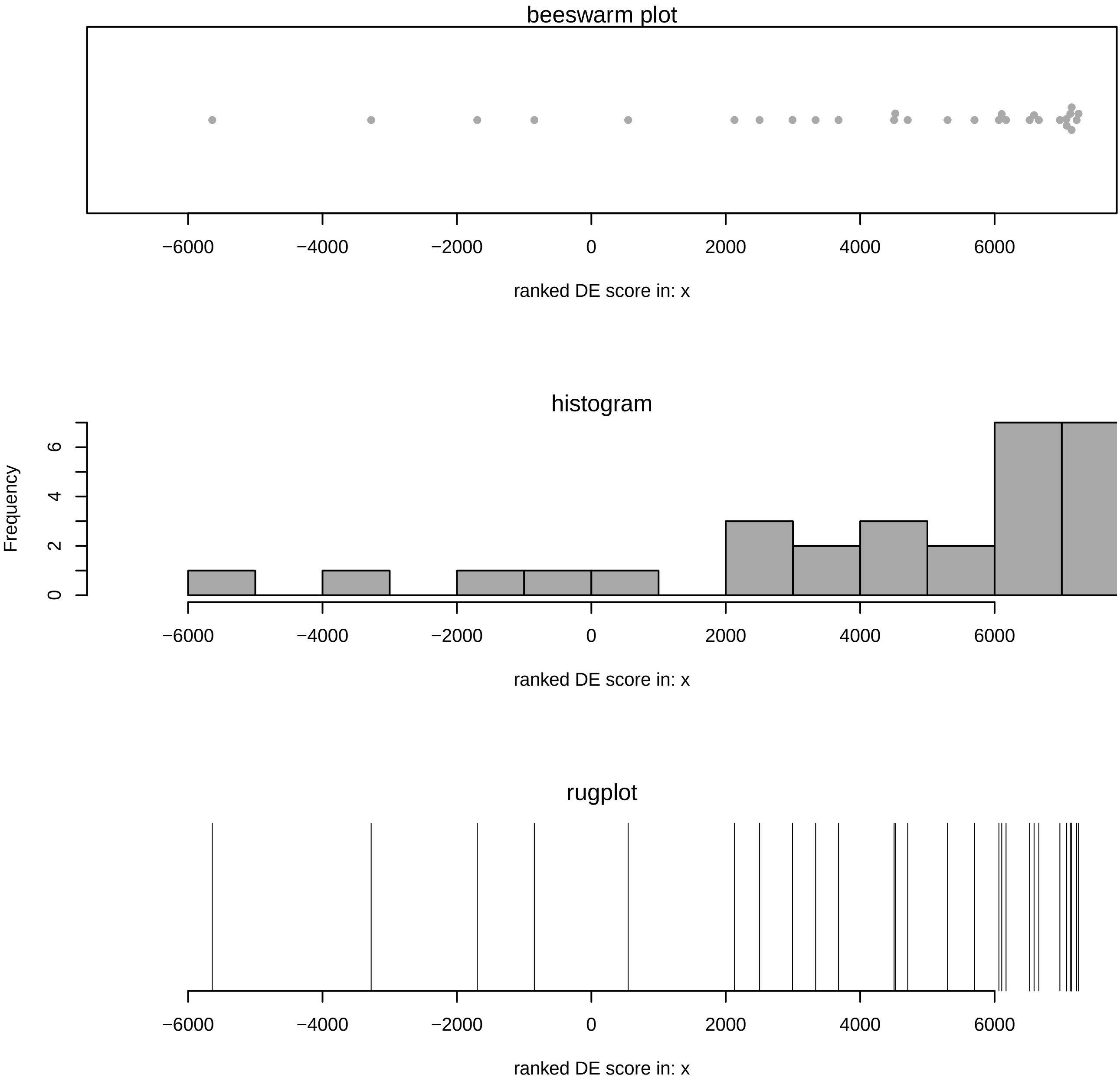
histogram

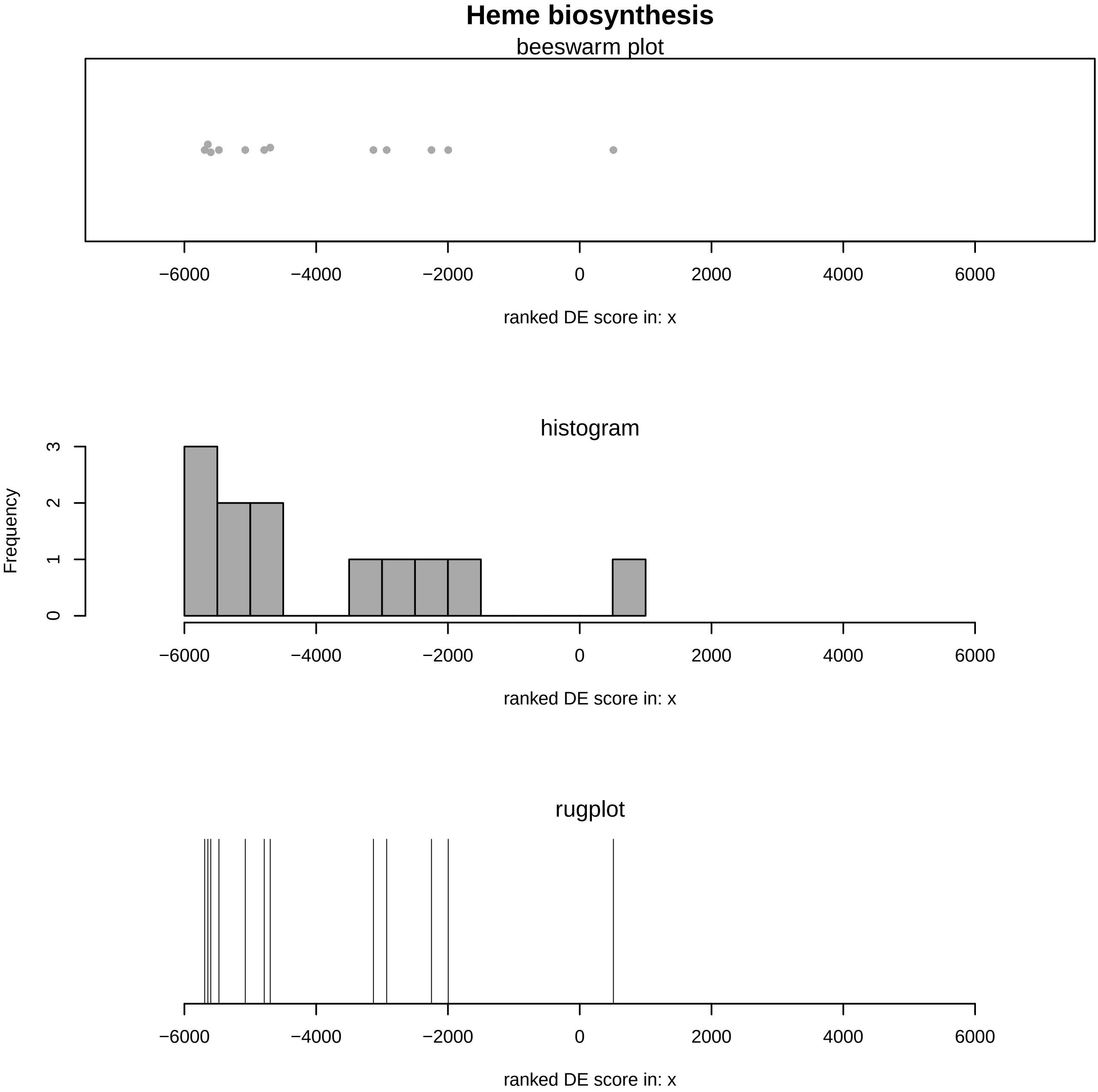
rugplot


Activation of ATR in response to replication stress
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
5
10
15
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

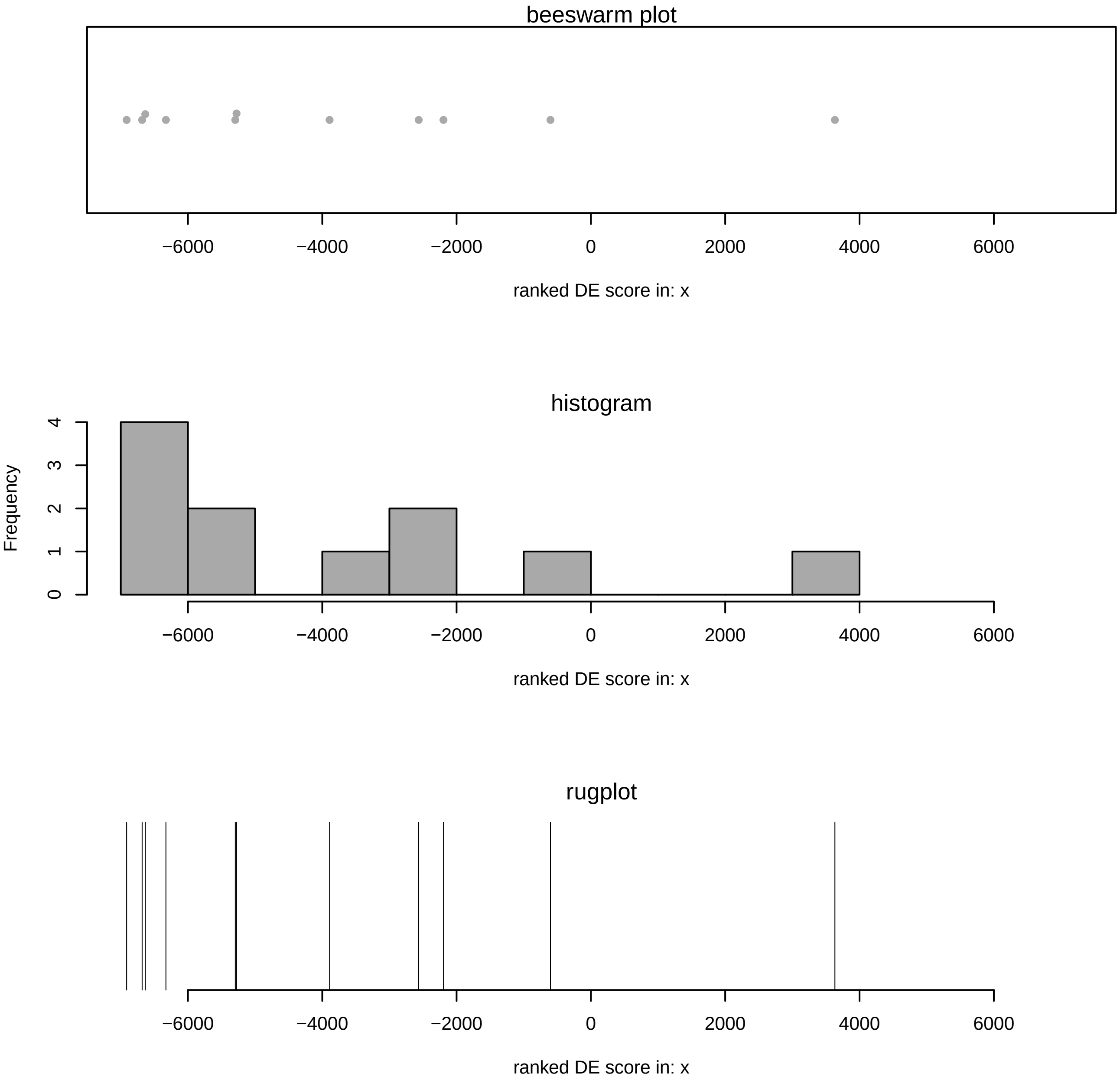

Folding of actin by CCT/TriC
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

Laminin interactions

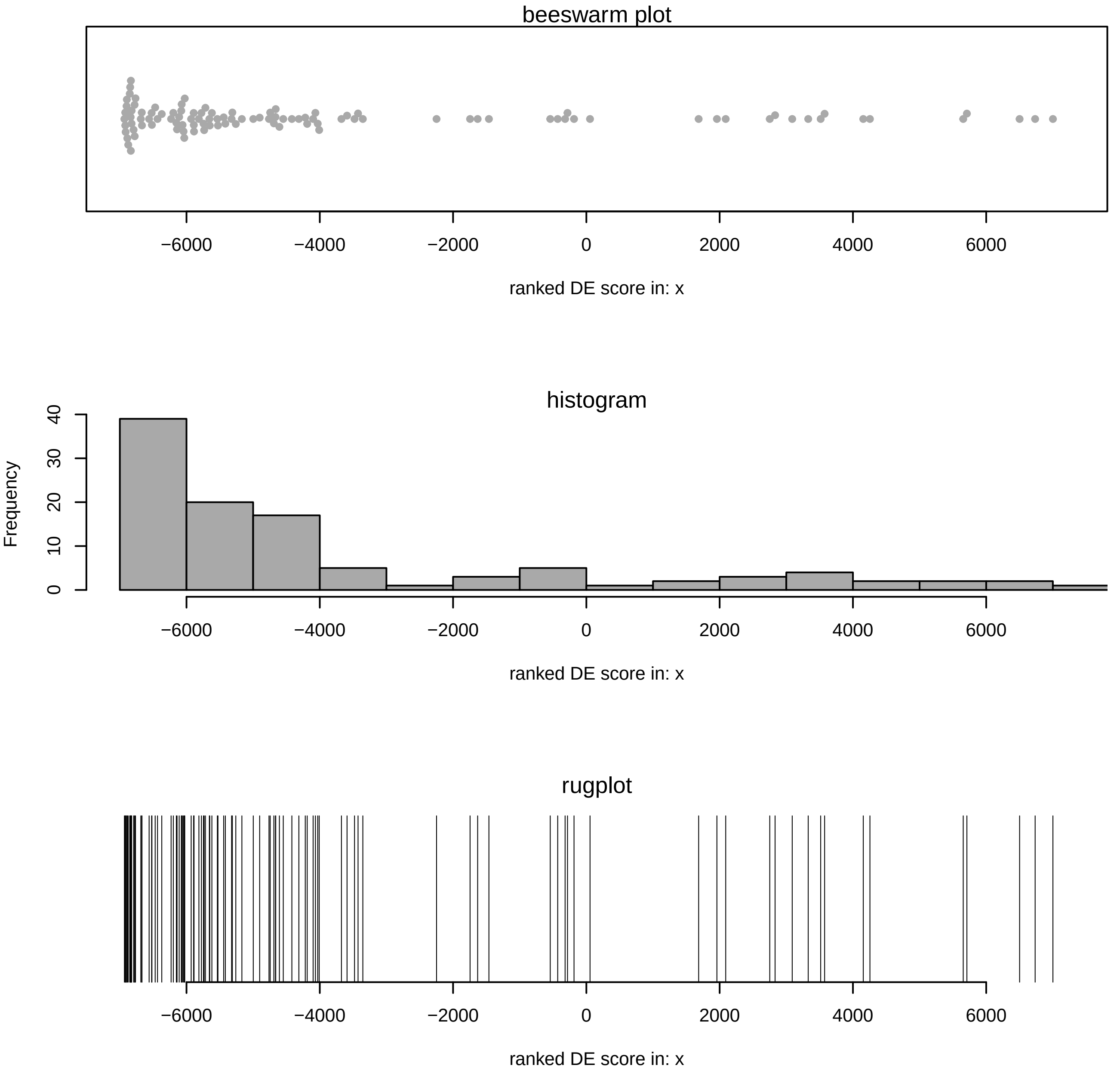



Heme biosynthesis
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

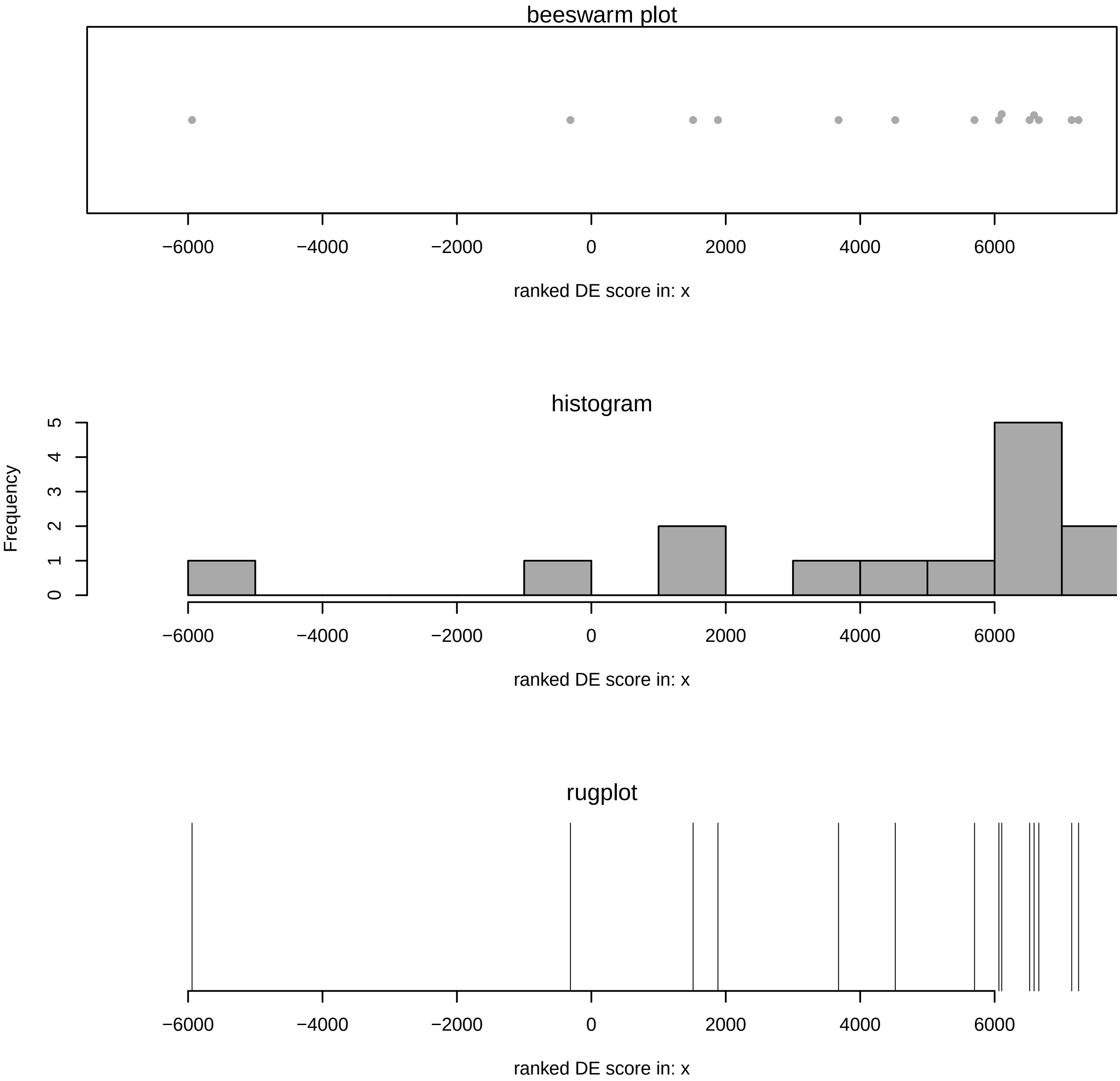
Cytosolic iron−sulfur cluster assembly



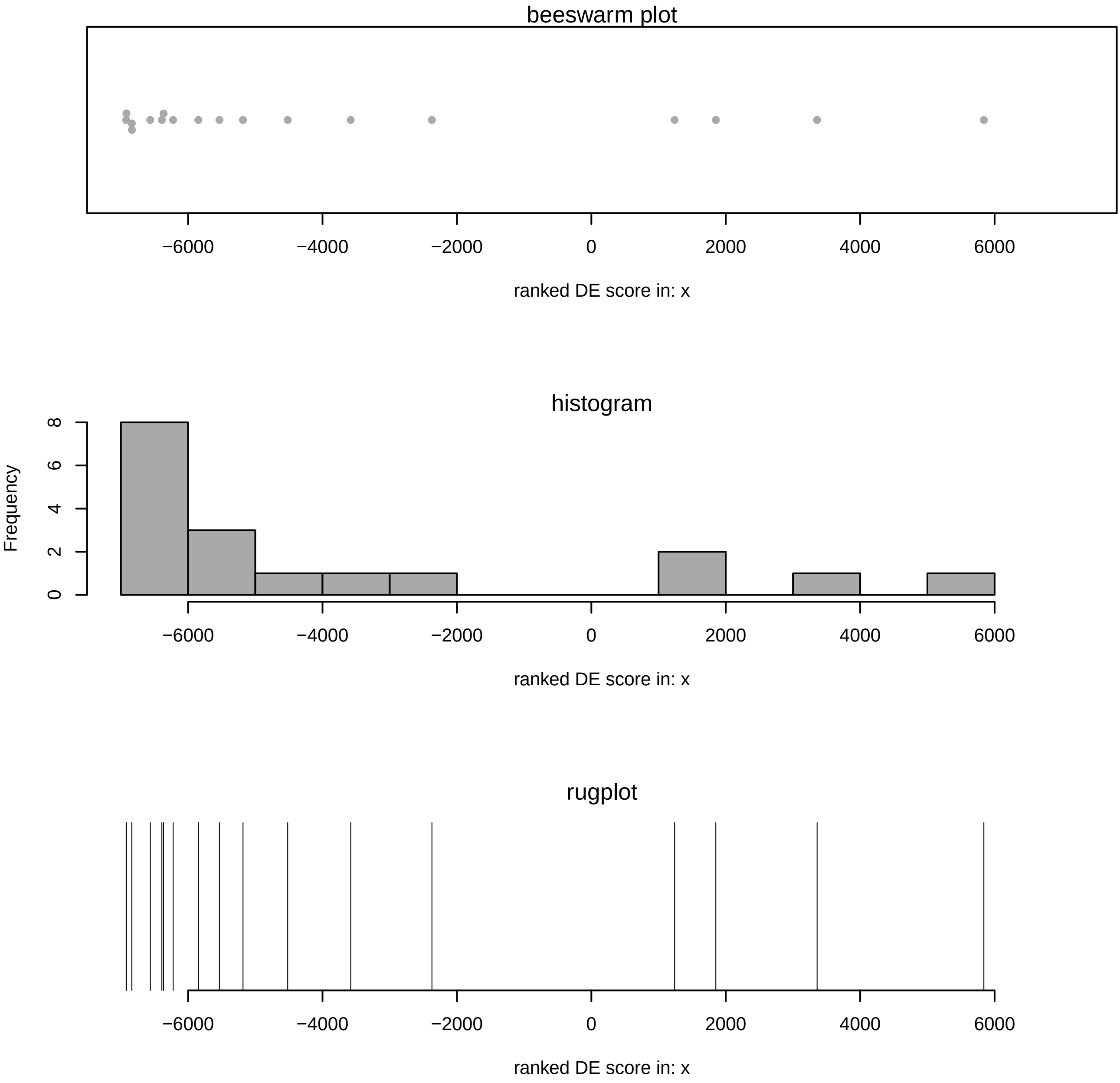
Synthesis of DNA



Anchoring fibril formation



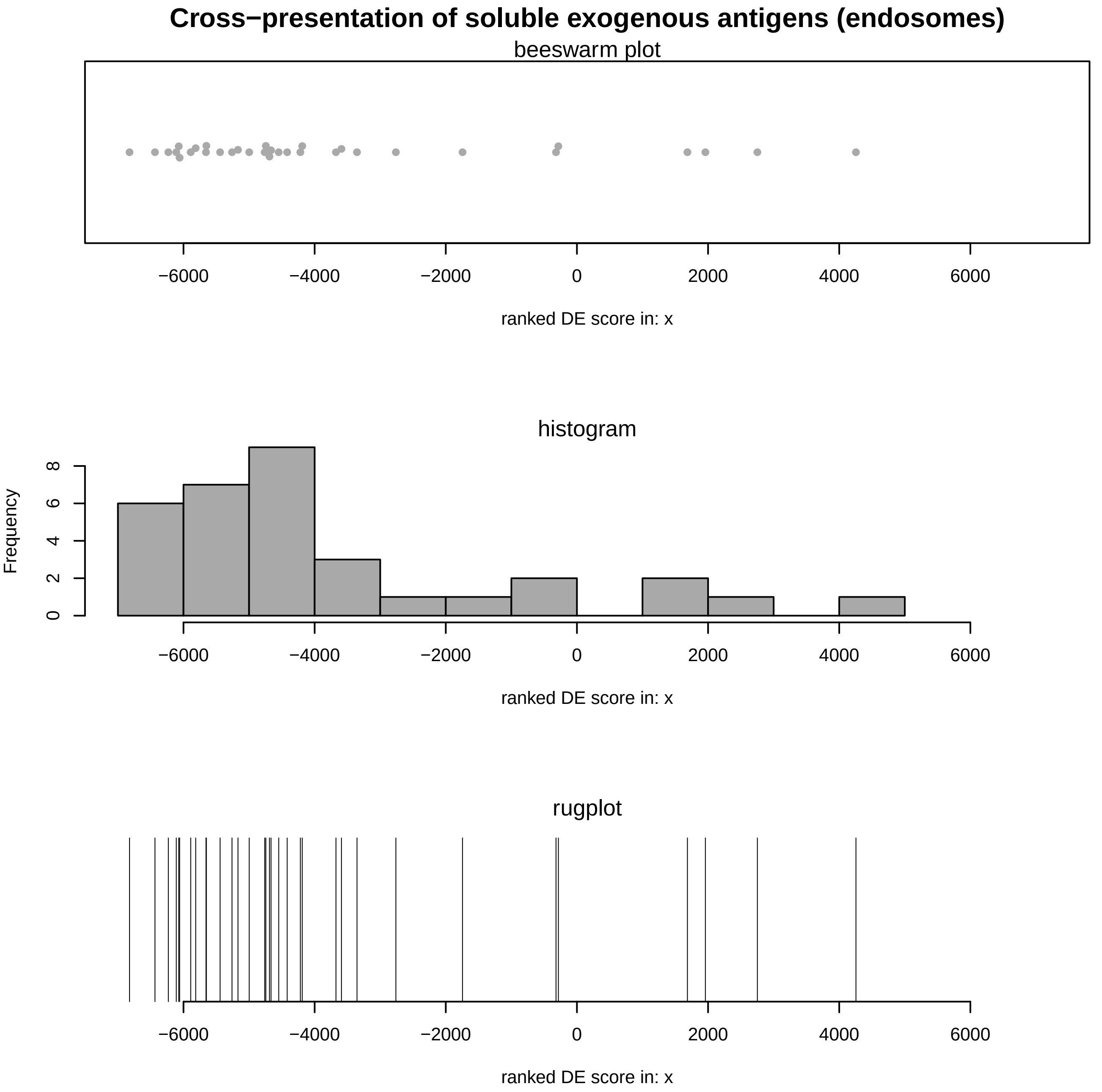
Post−chaperonin tubulin folding pathway

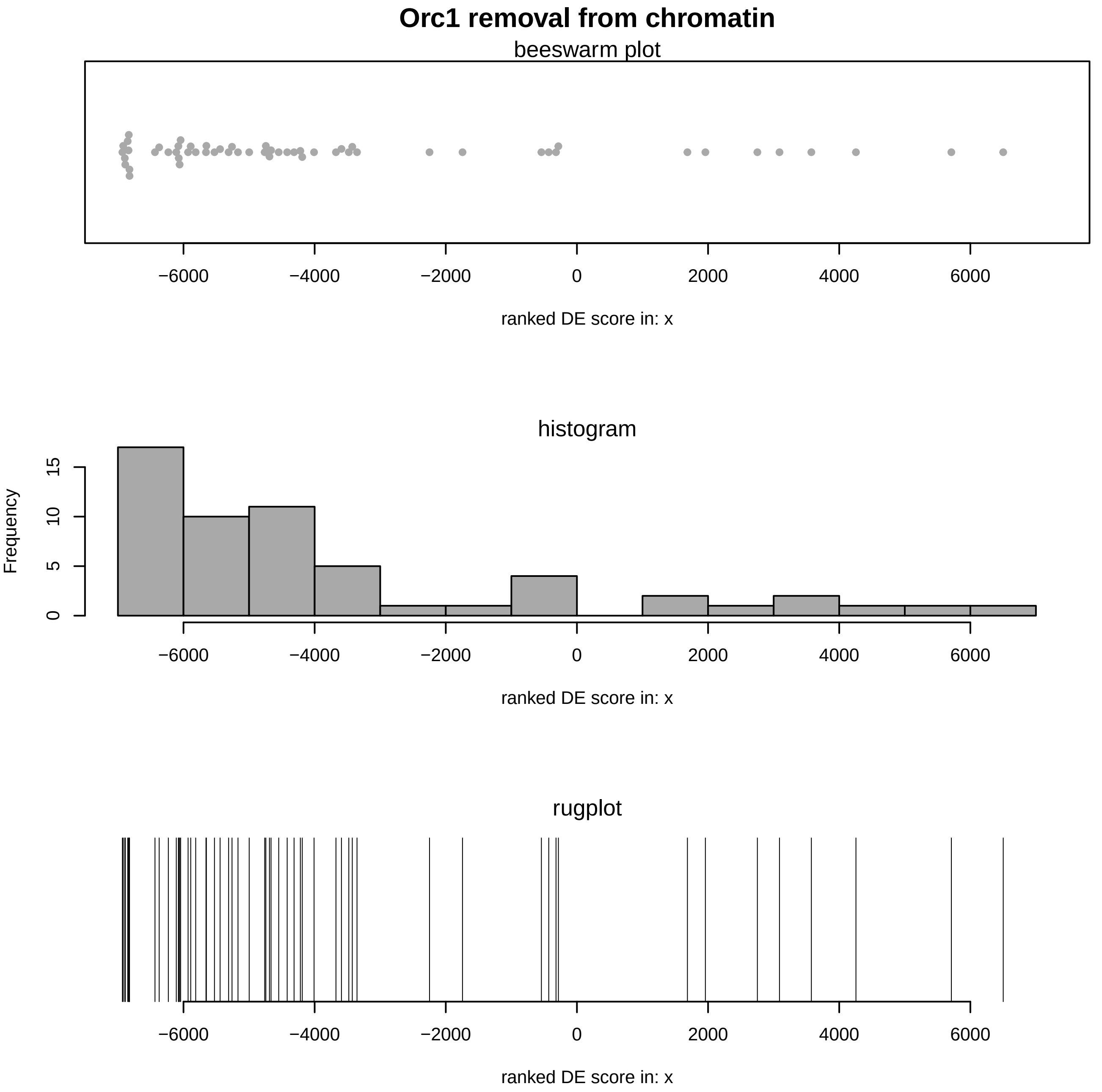


beeswarm plot

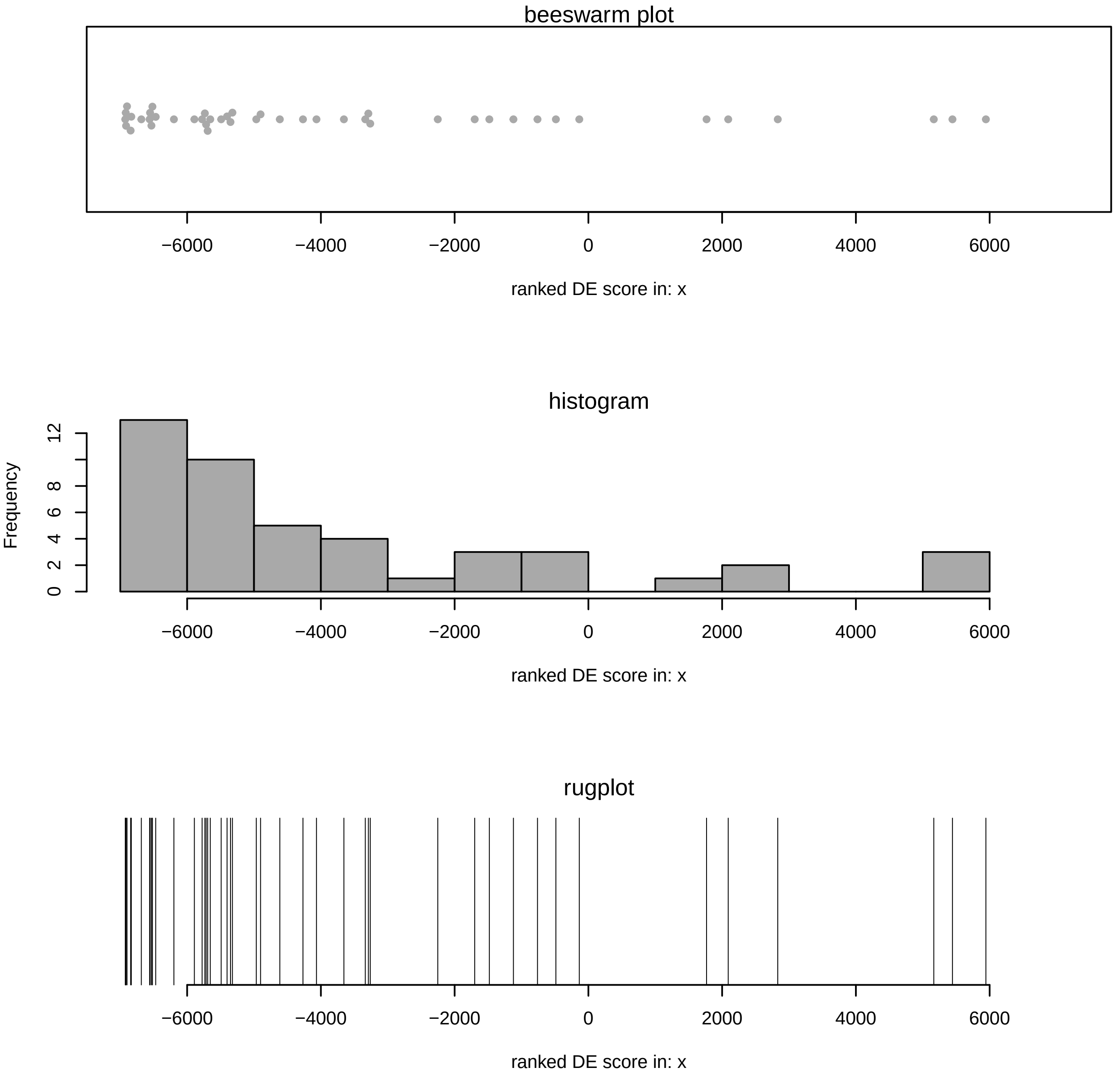
histogram

rugplot

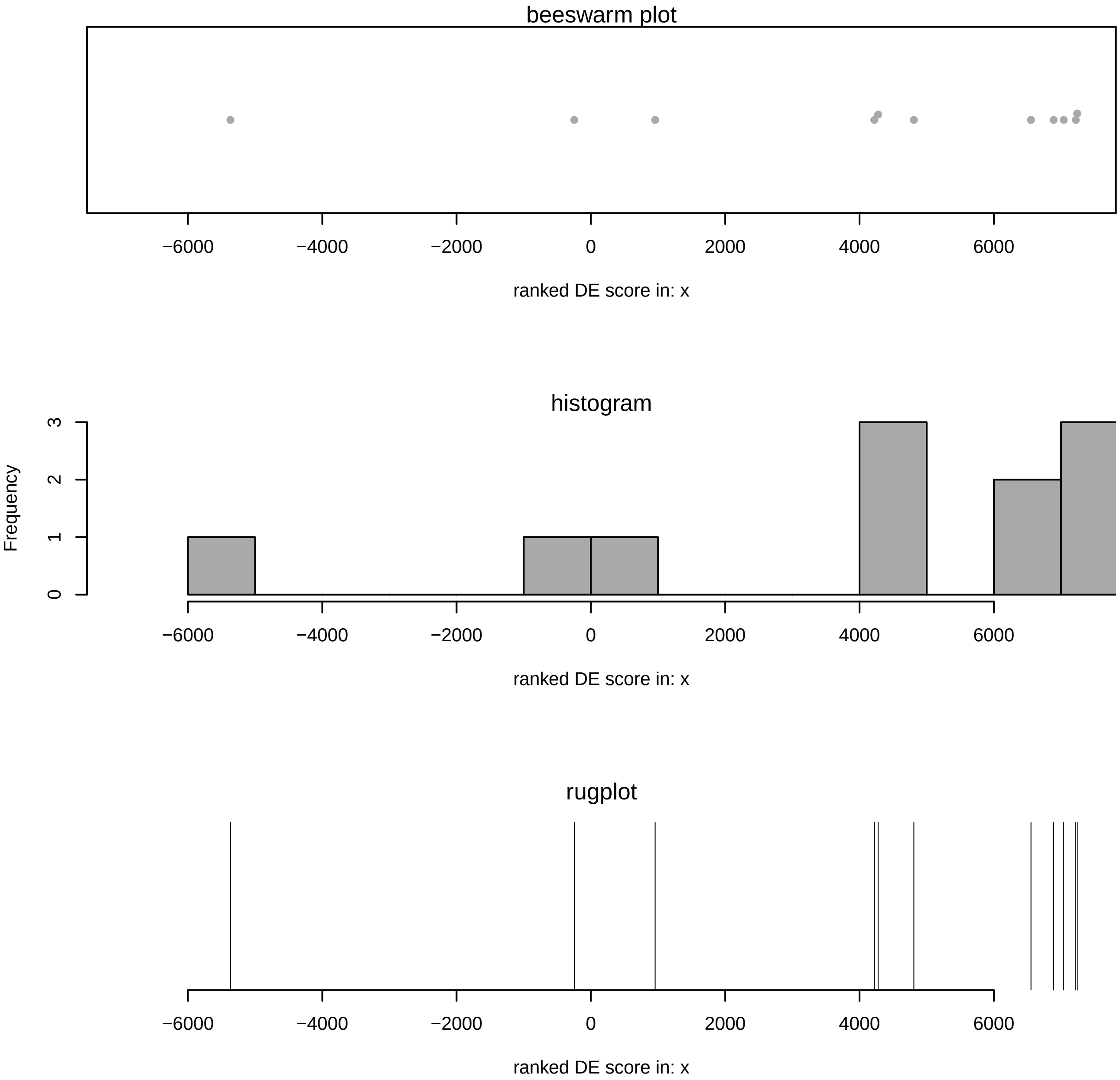

Cross−presentation of soluble exogenous antigens (endosomes)
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Orc1 removal from chromatin
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
5
10
15
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

Base Excision Repair



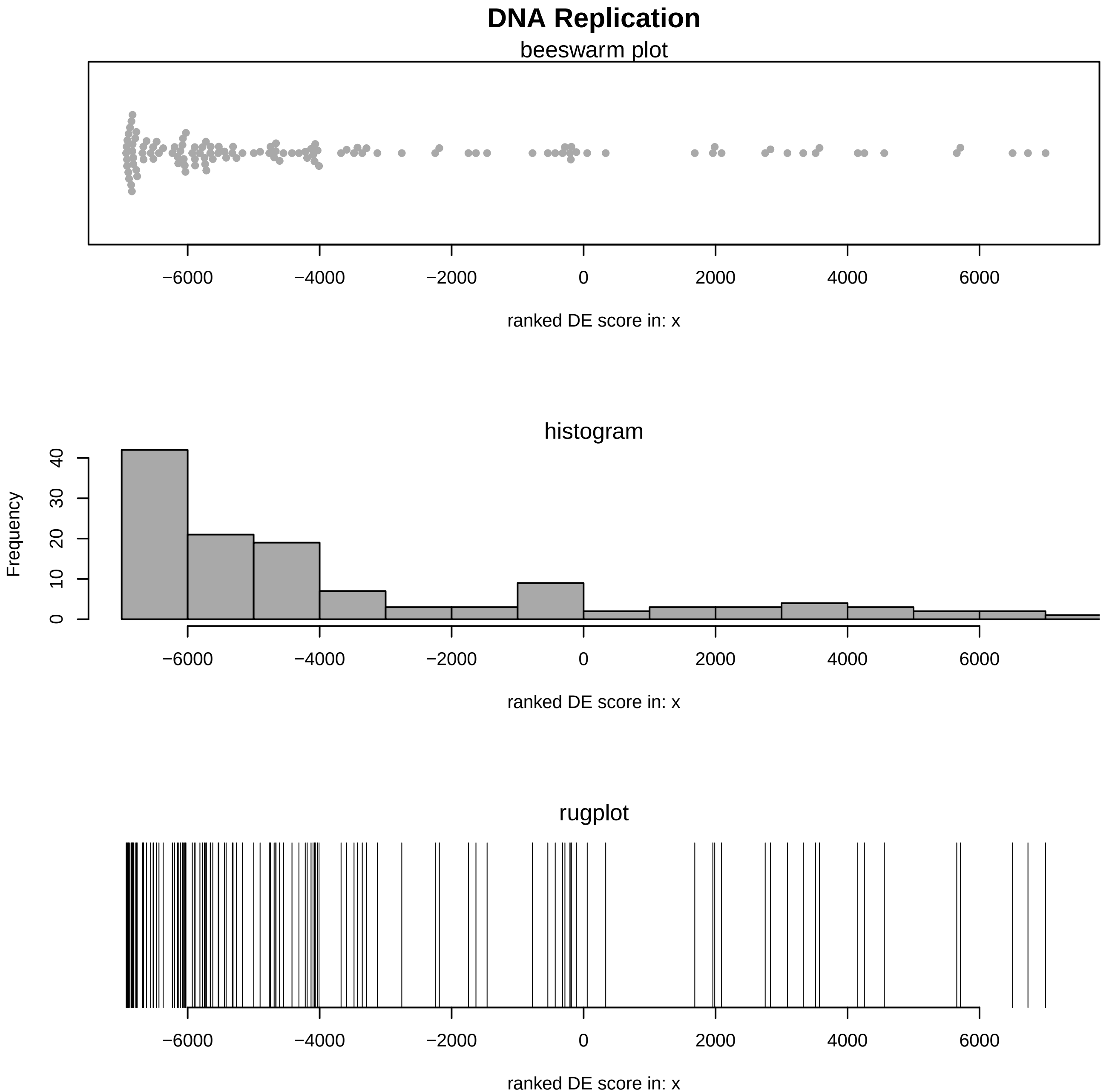
−M−dependent genes involved in extracellular matrix, focal adhesion and epithelial−to−m



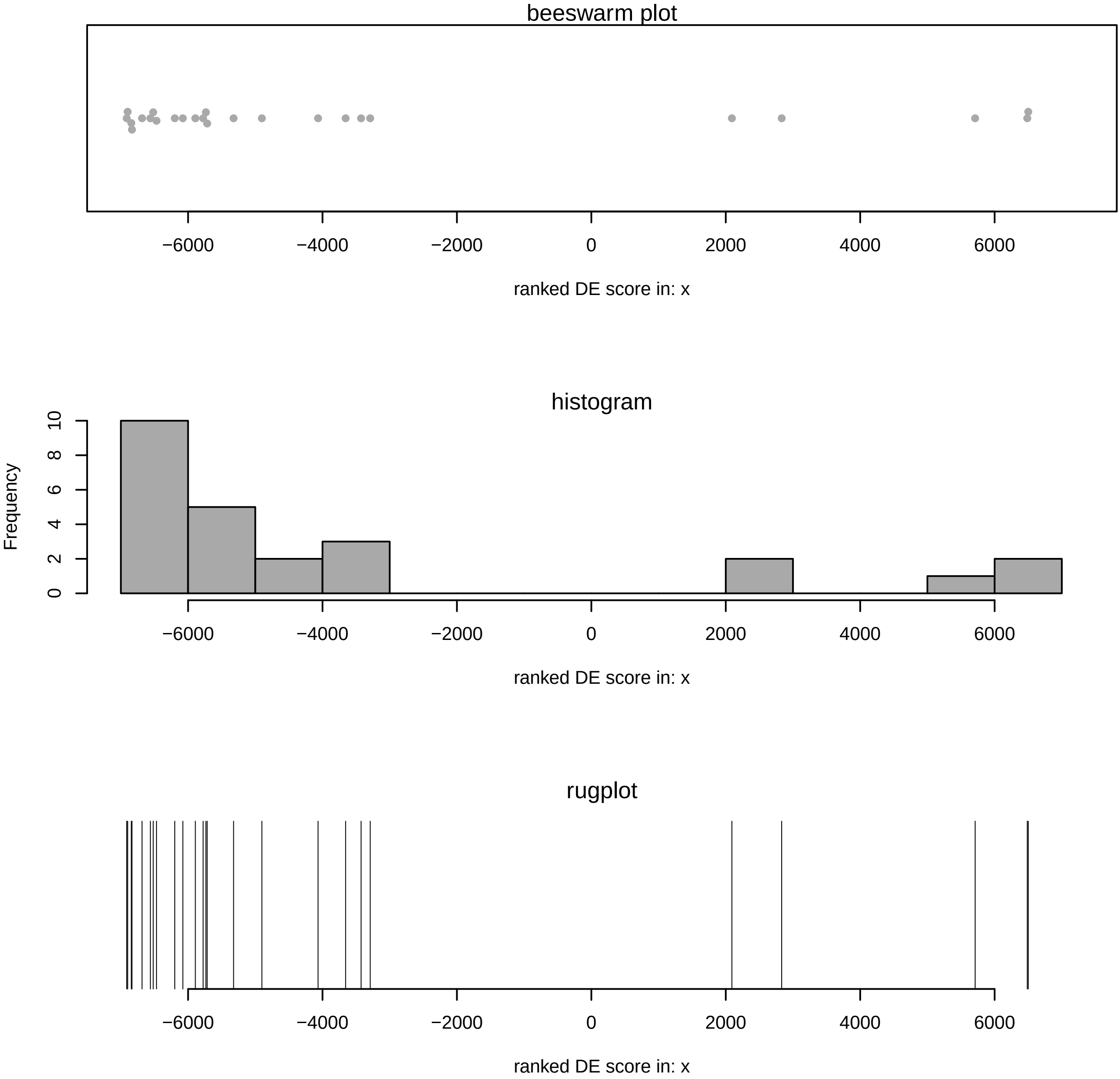
beeswarm plot

histogram

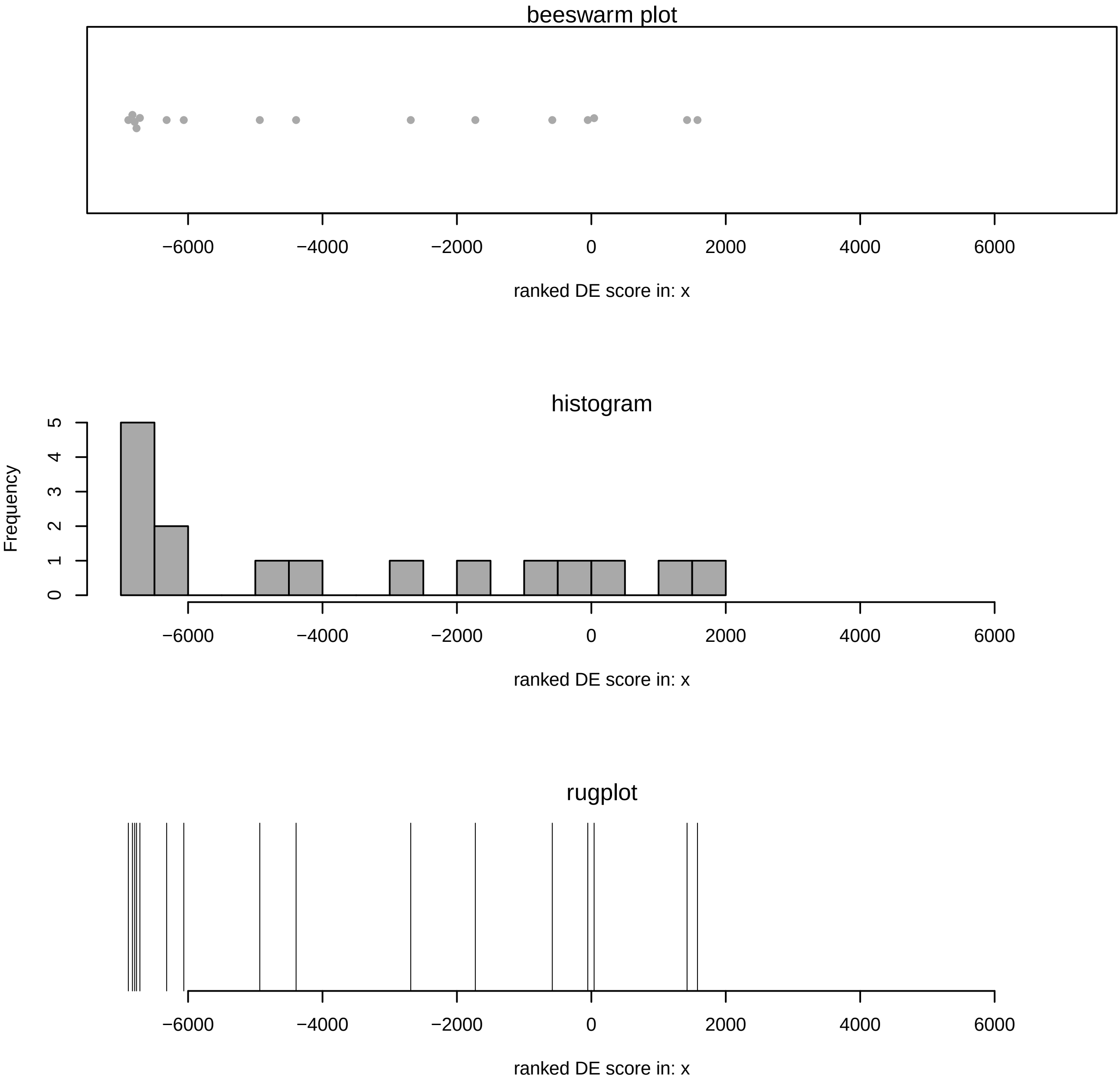
rugplot


DNA Replication
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
10
20
30
40
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

Gap−filling DNA repair synthesis and ligation in GG−NER



Polo−like kinase mediated events

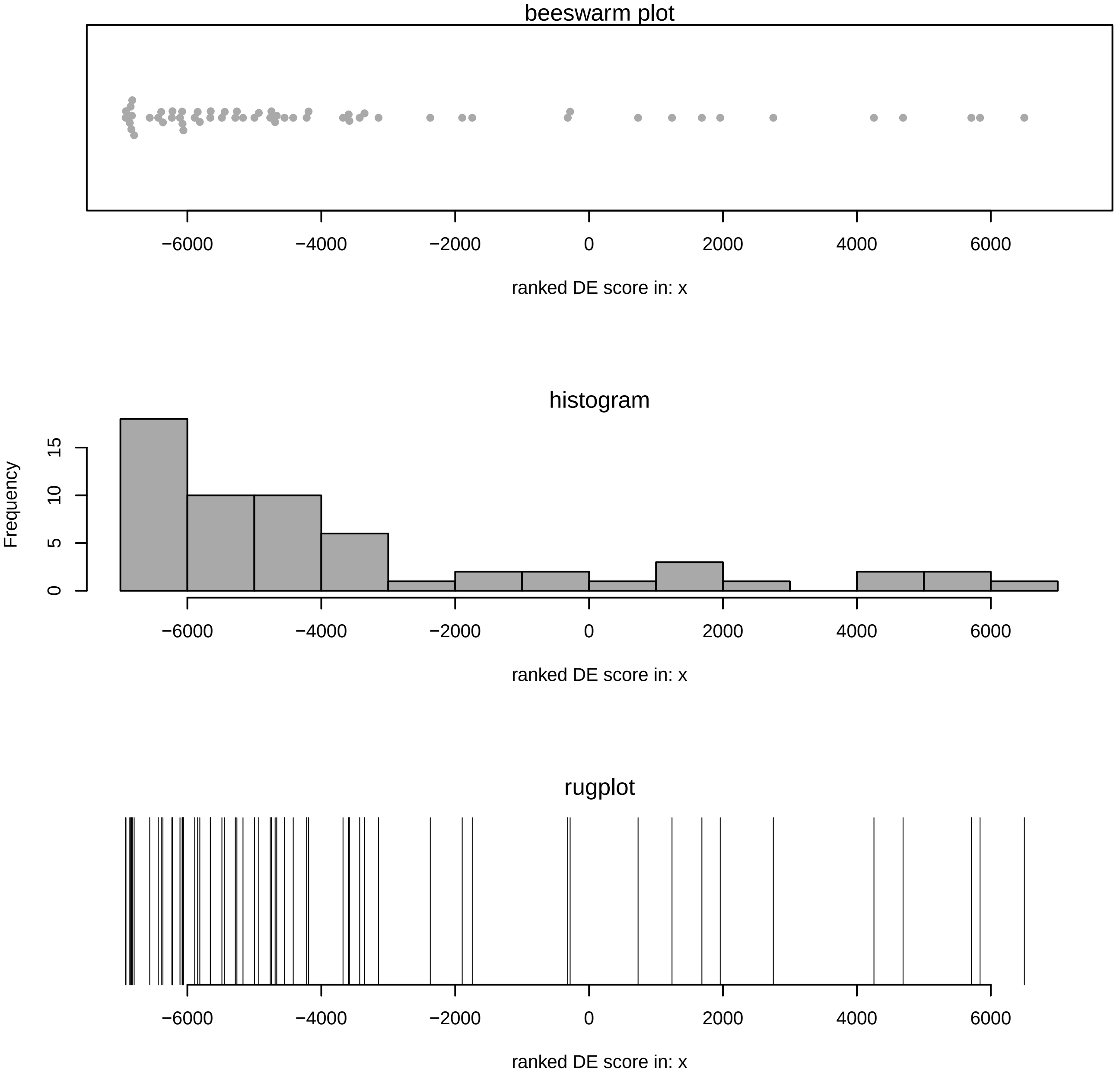


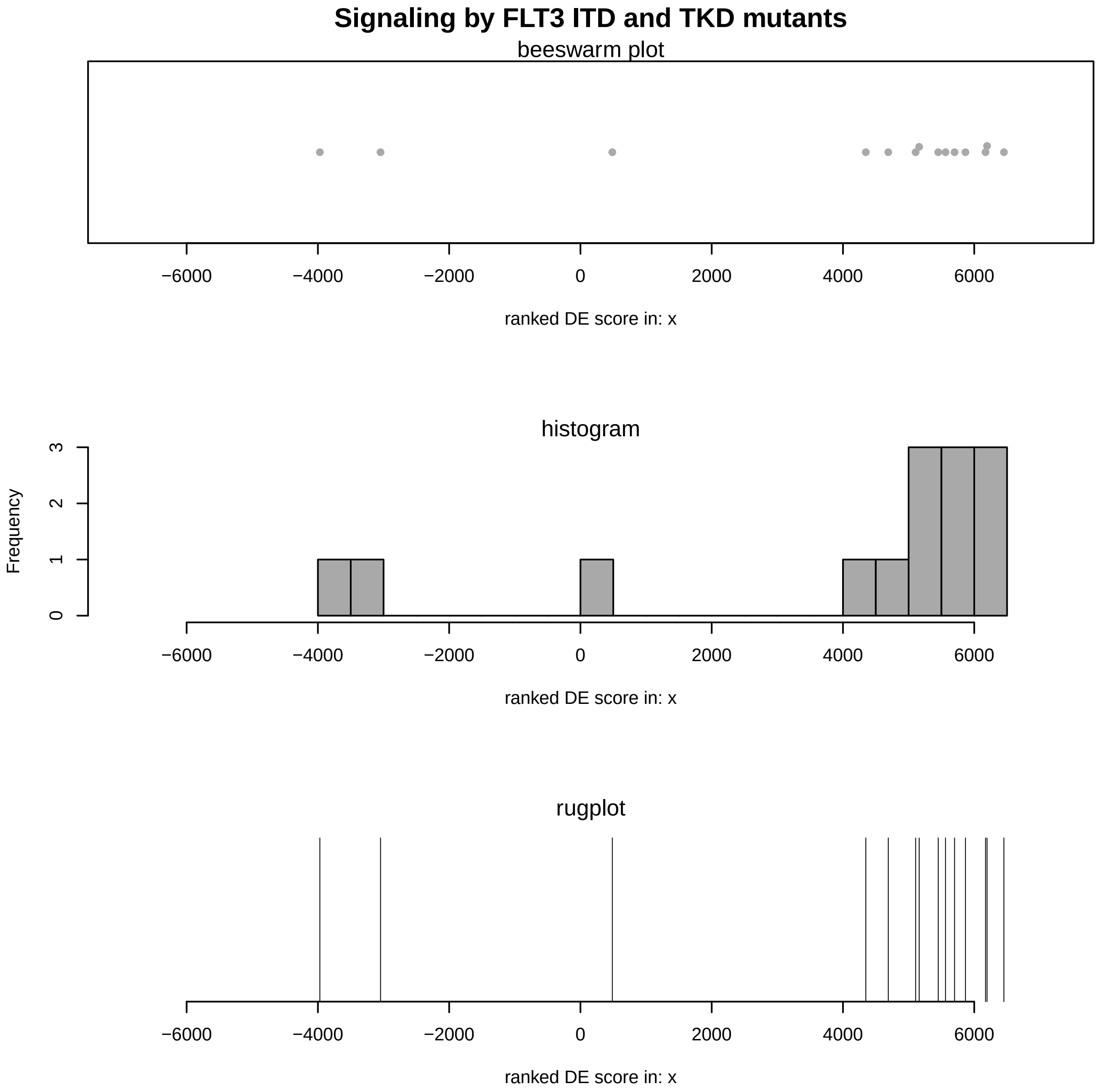
beeswarm plot

histogram

rugplot

The role of GTSE1 in G2/M progression after G2 checkpoint



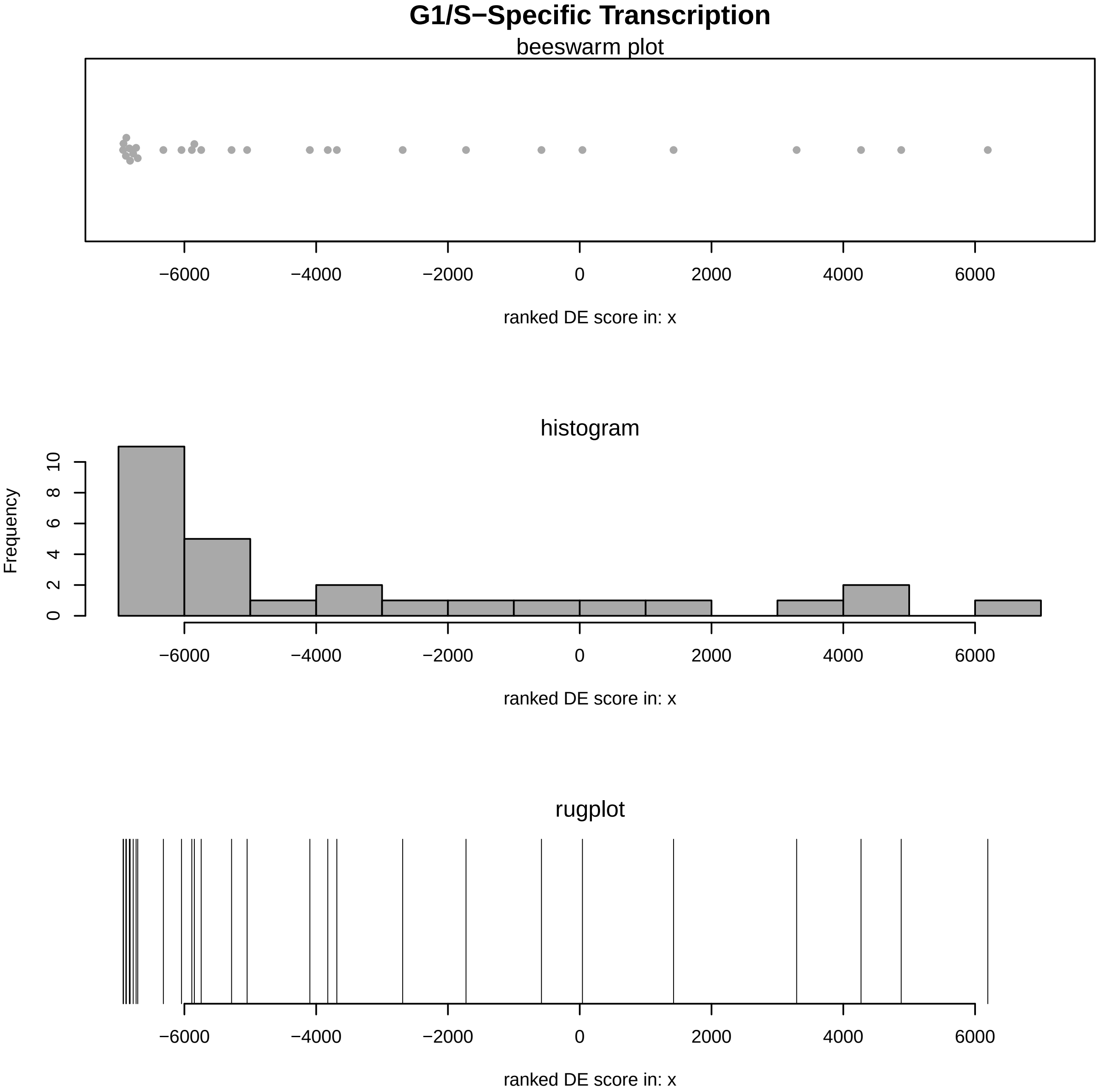


Signaling by FLT3 ITD and TKD mutants

beeswarm plot

histogram

rugplot

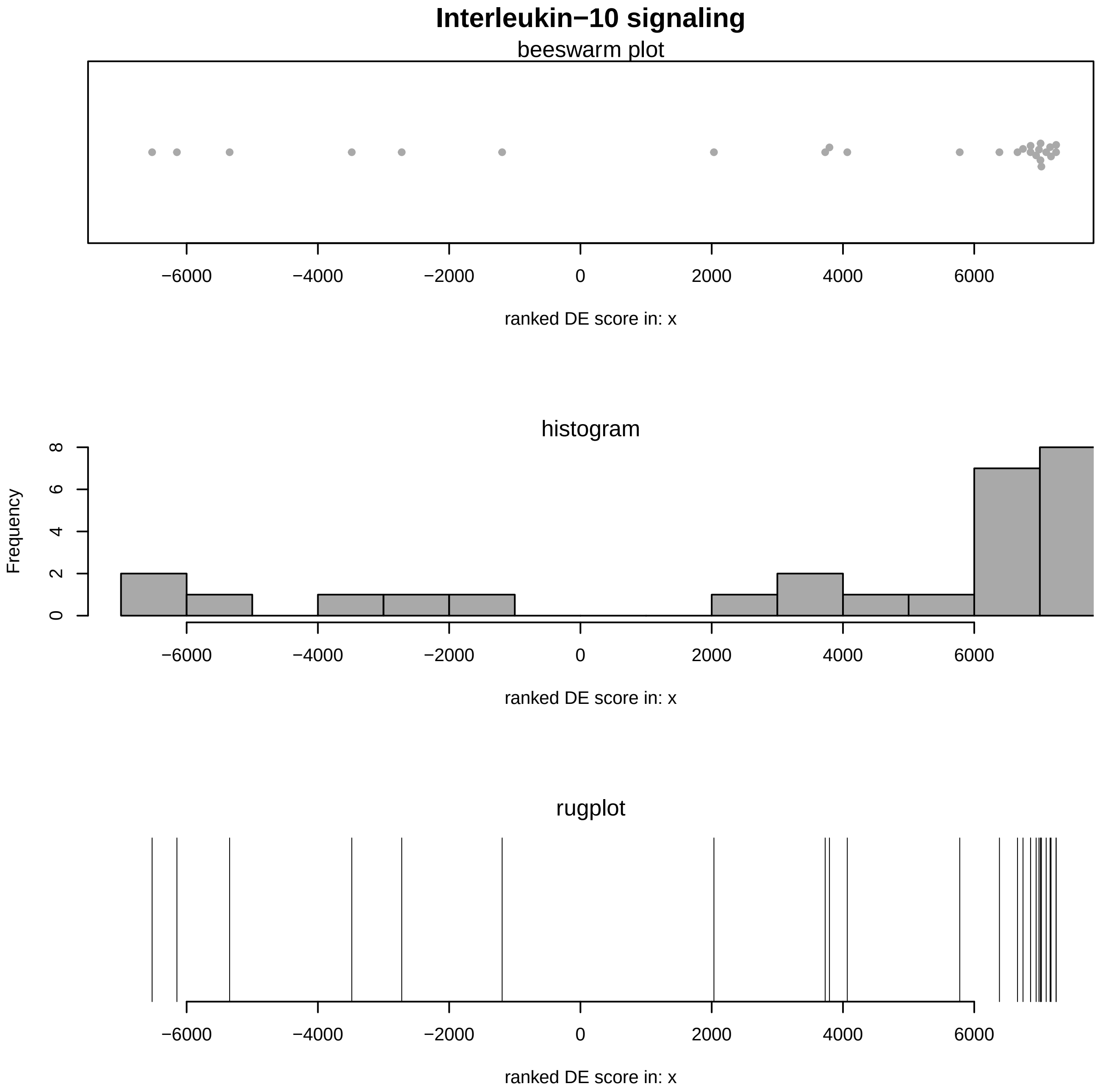


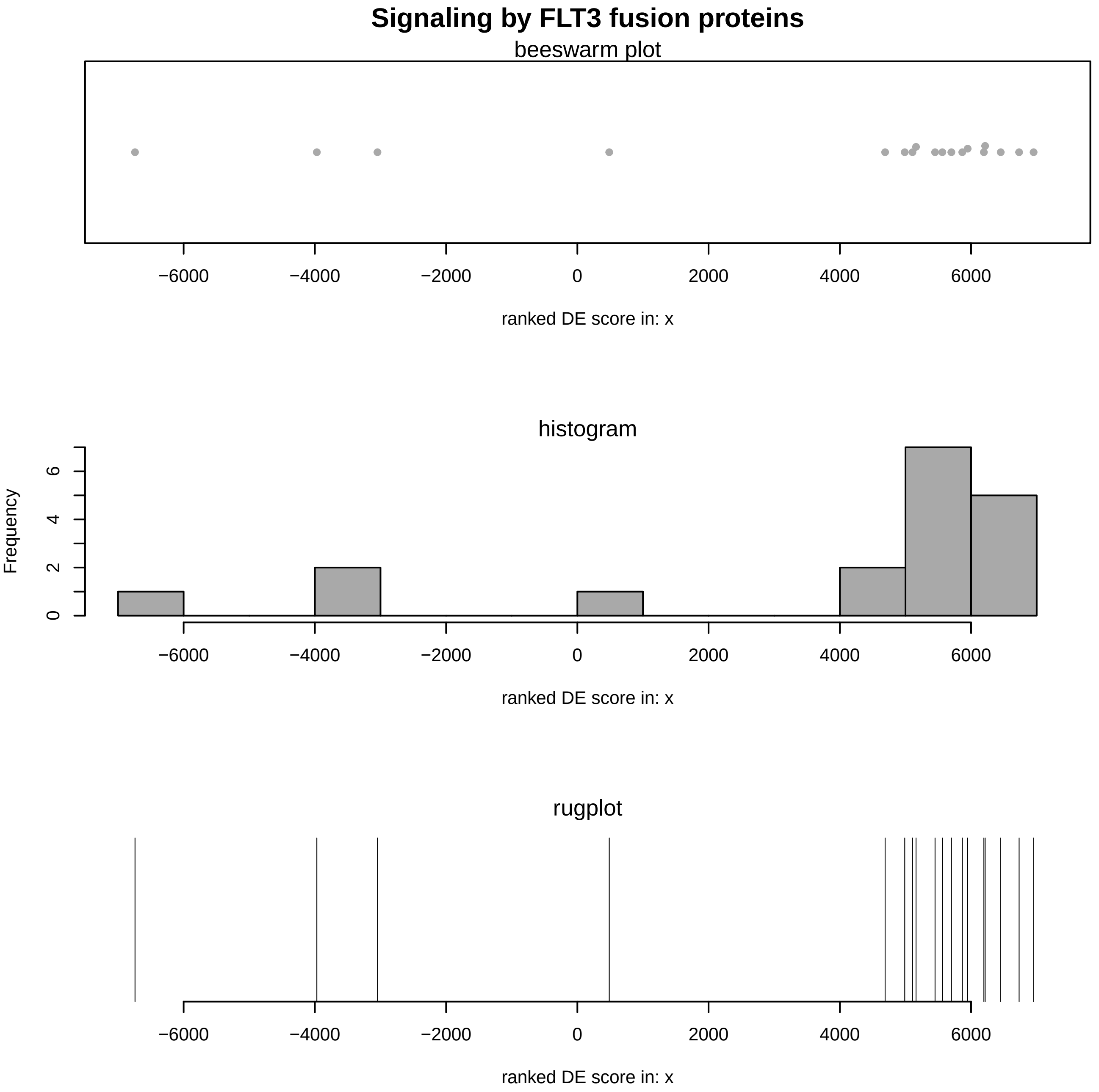
G1/S−Specific Transcription

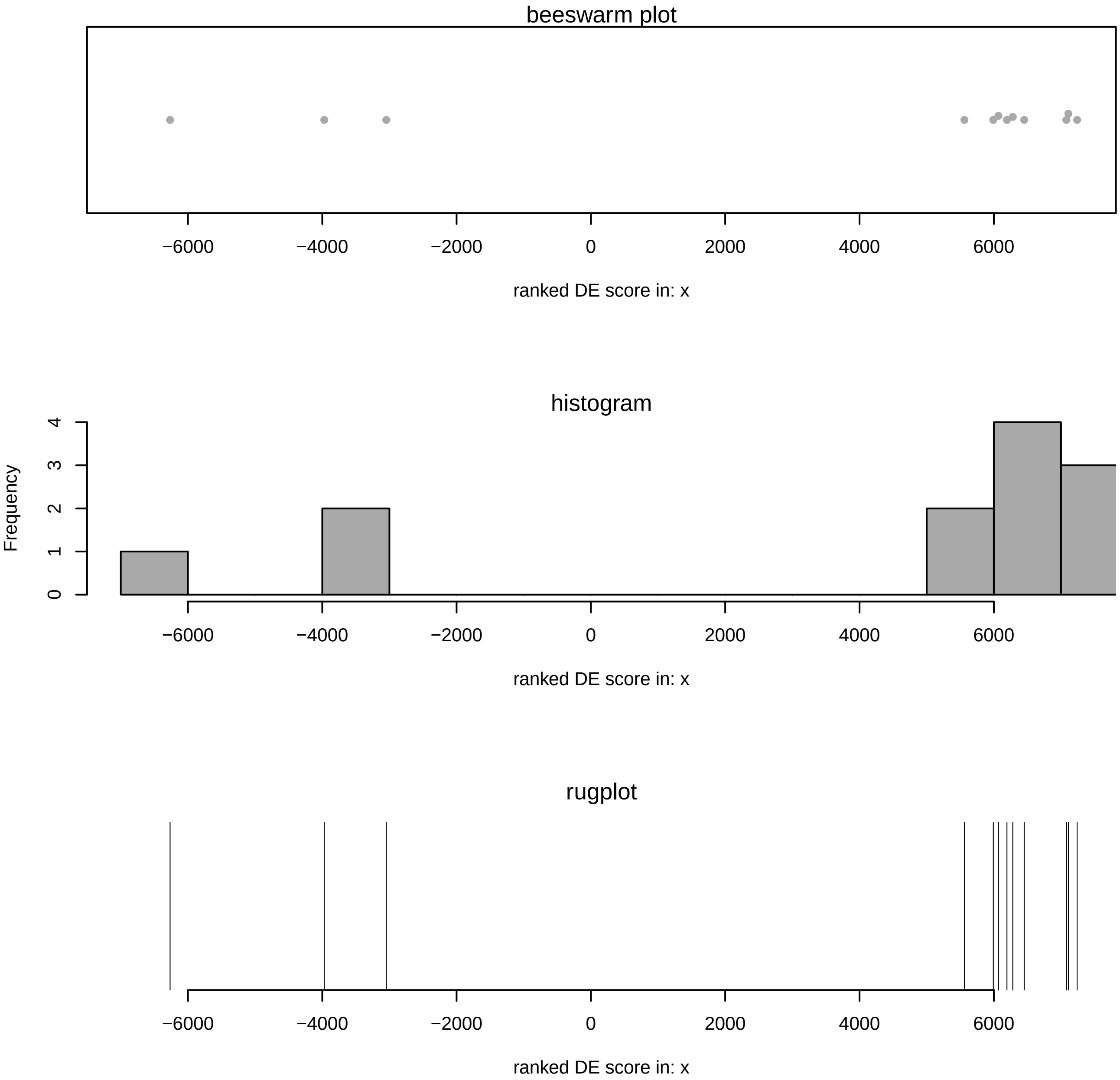
beeswarm plot

histogram

rugplot


Interleukin−10 signaling
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Signaling by FLT3 fusion proteins
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

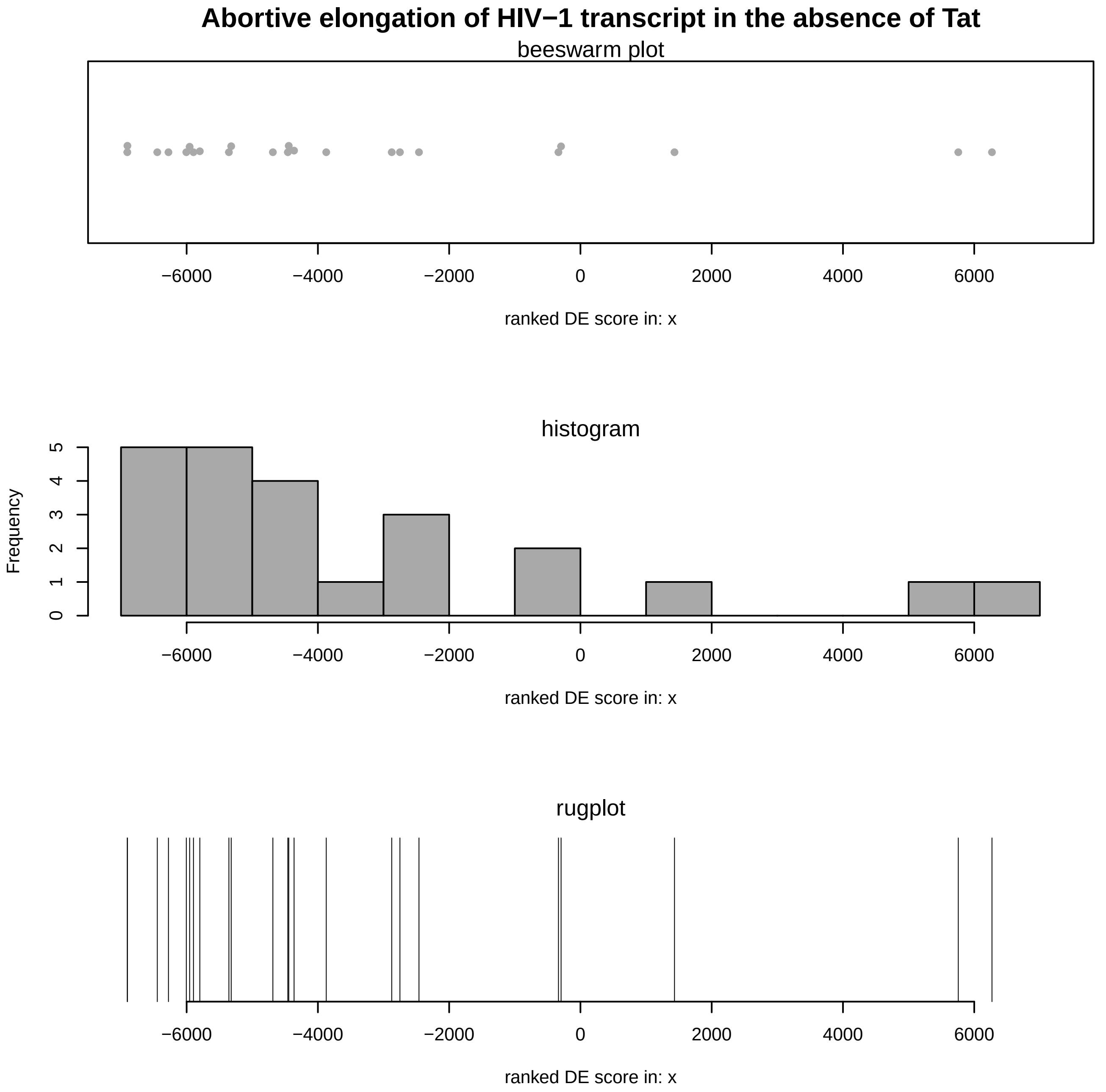


SHC1 events in EGFR signaling

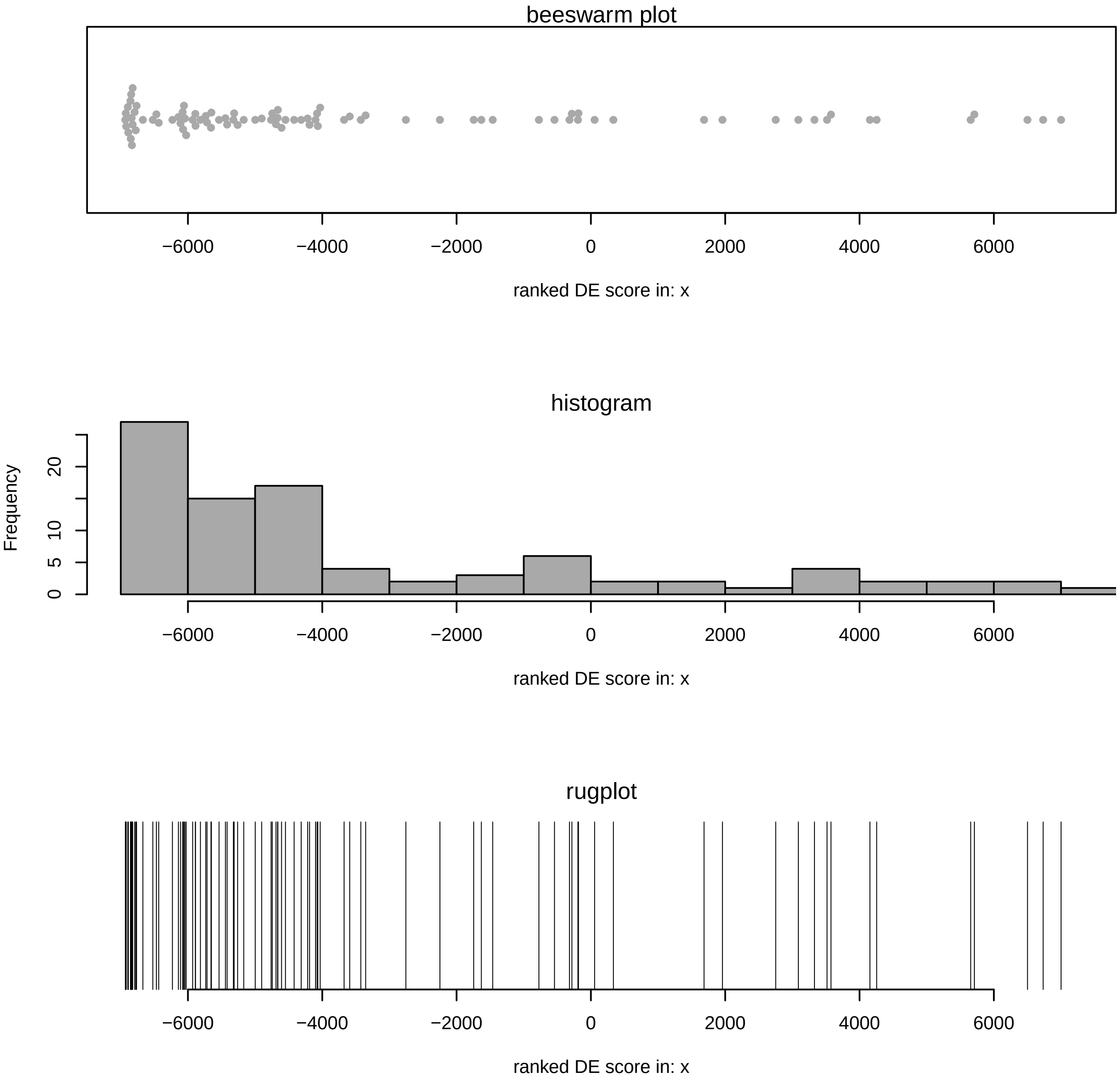
beeswarm plot

histogram

rugplot


Abortive elongation of HIV−1 transcript in the absence of Tat
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
1
2
3
4
5
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

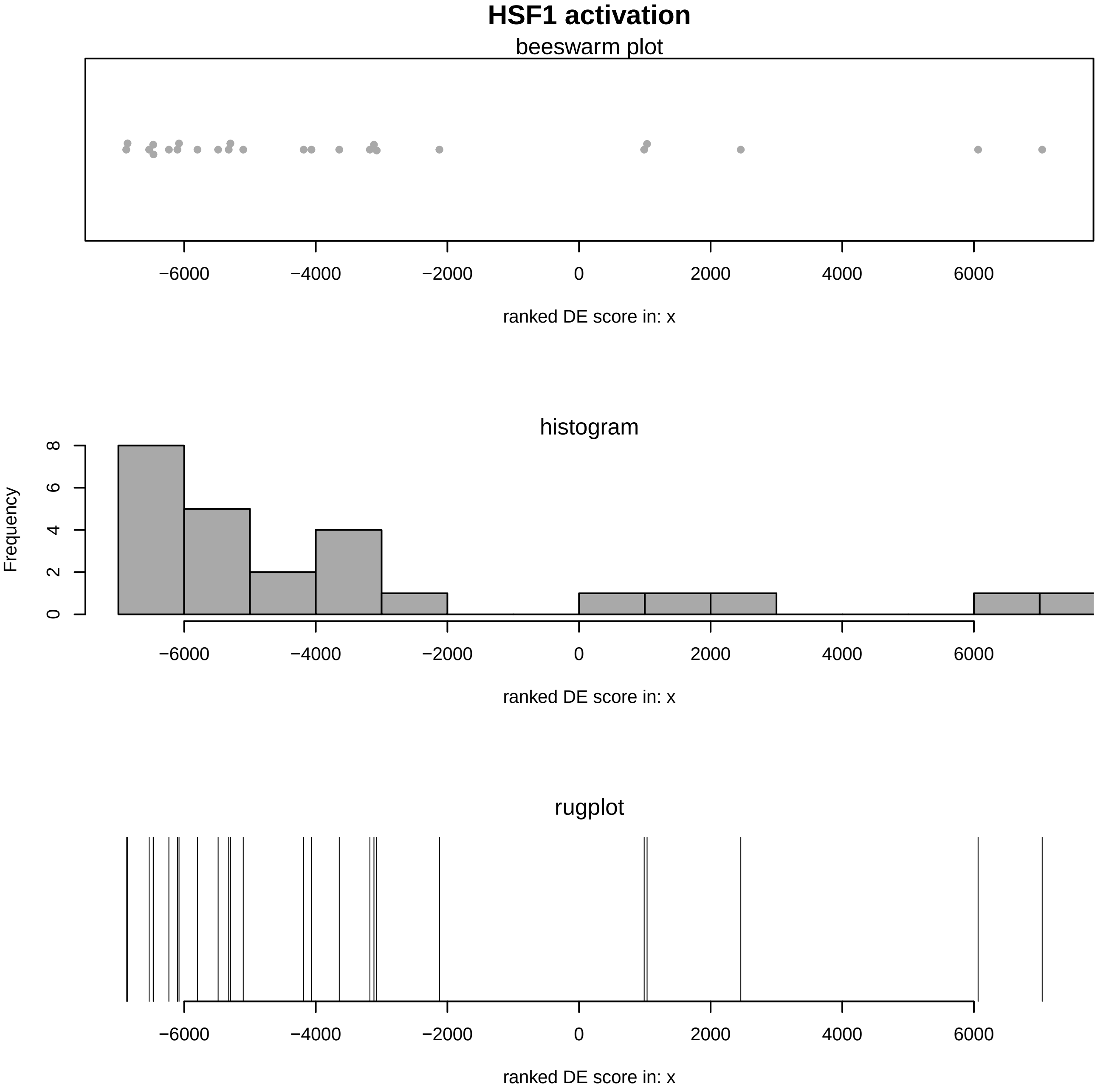
DNA Replication Pre−Initiation

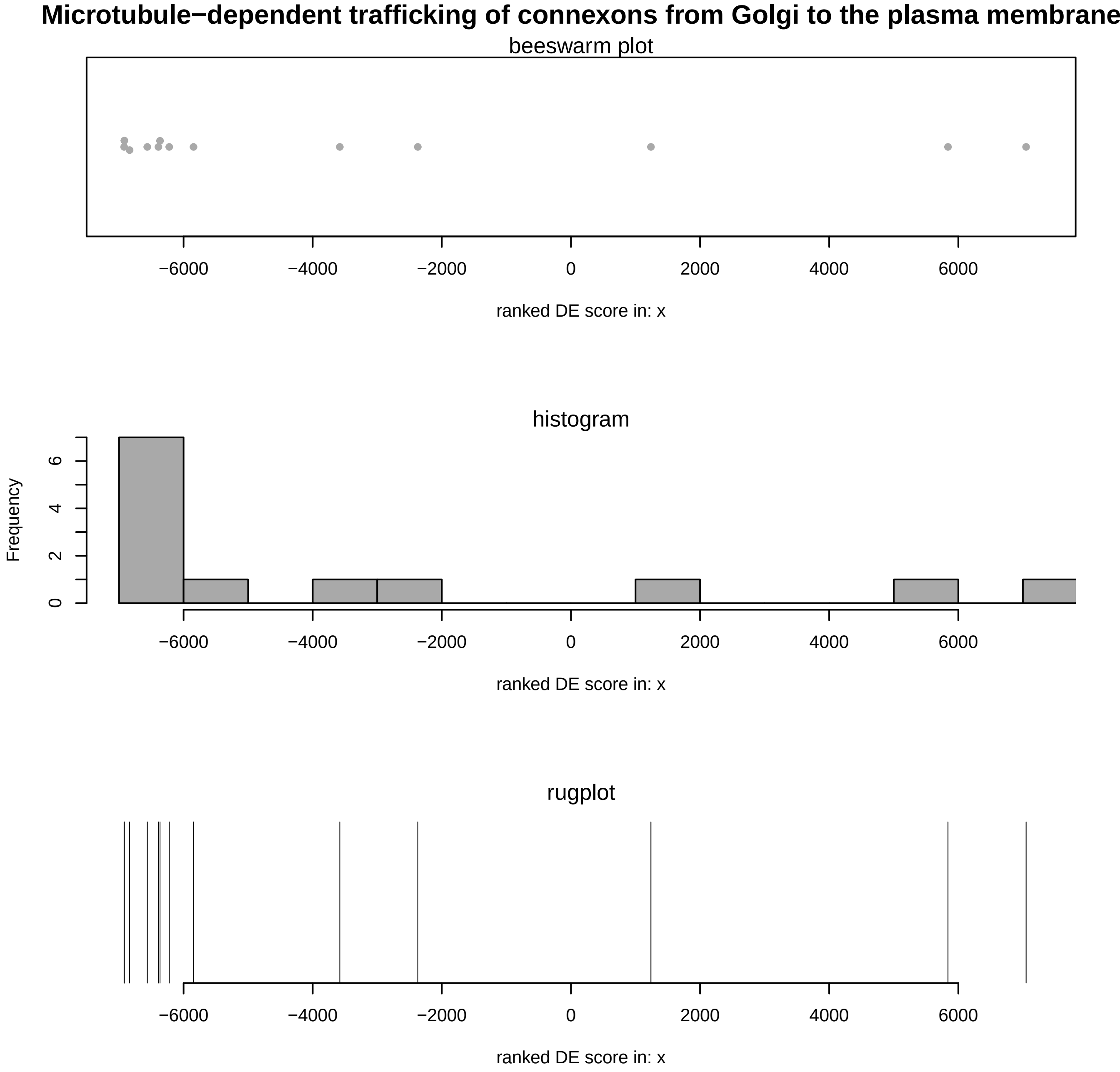


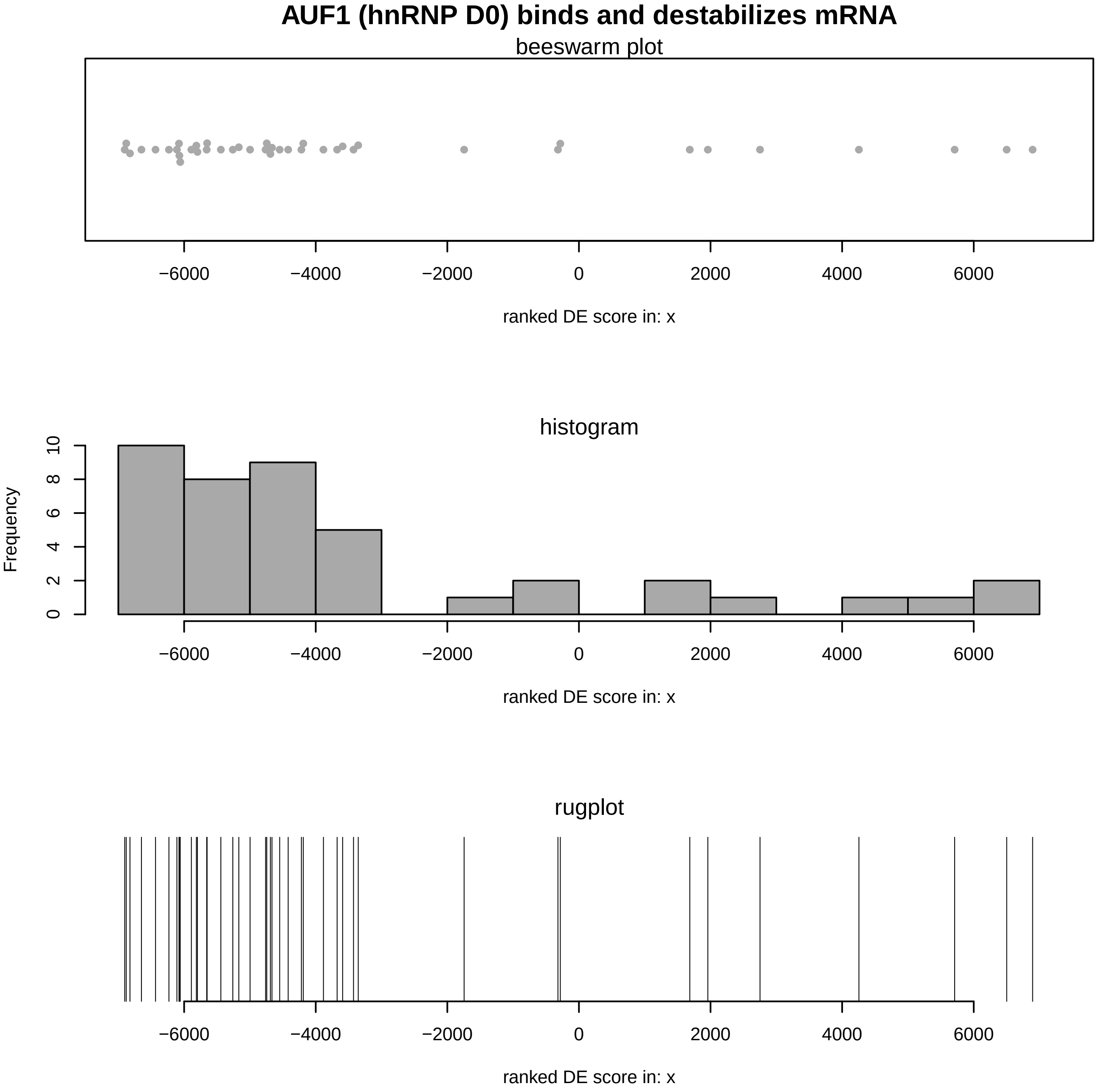
beeswarm plot

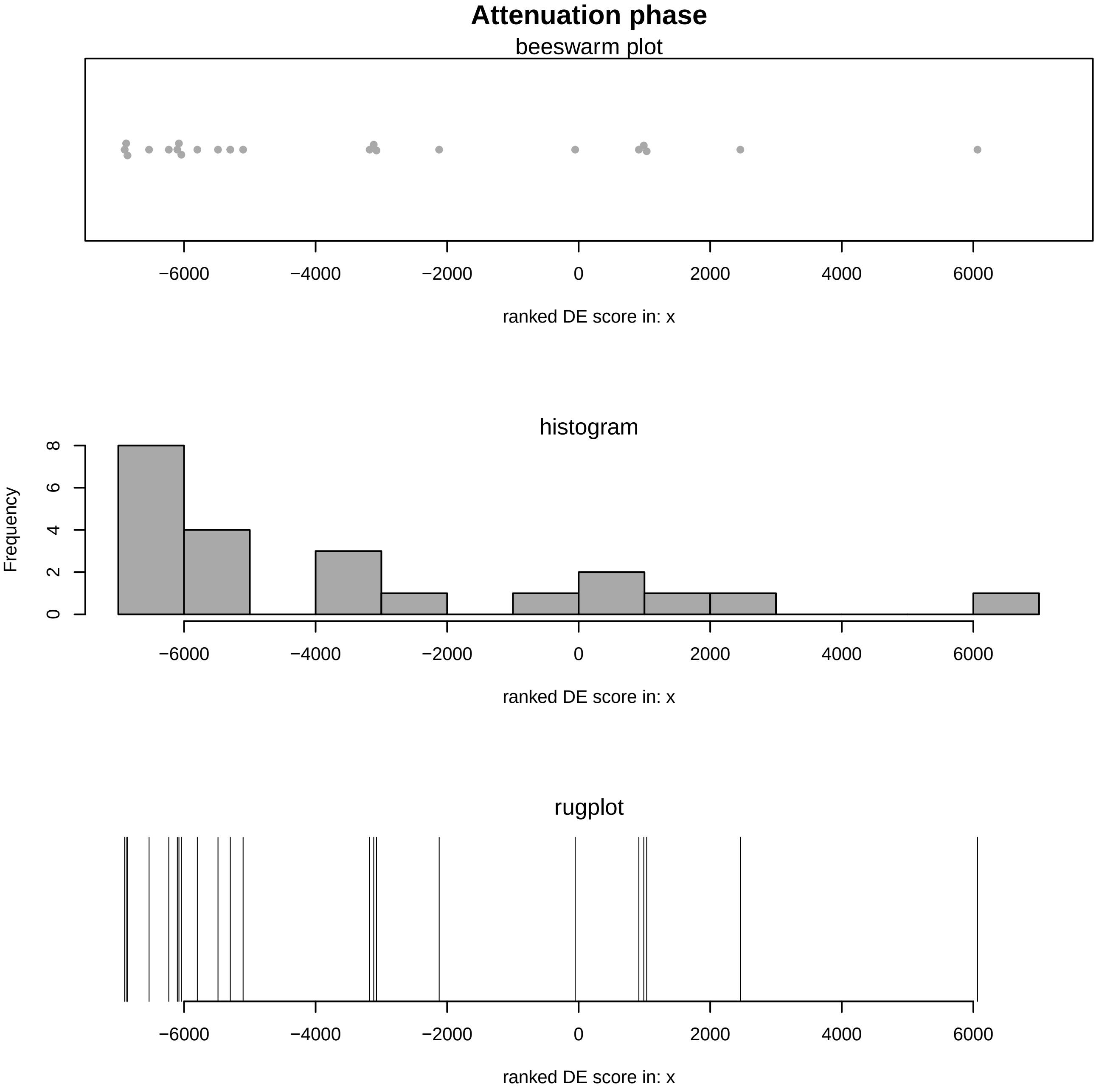
histogram

rugplot

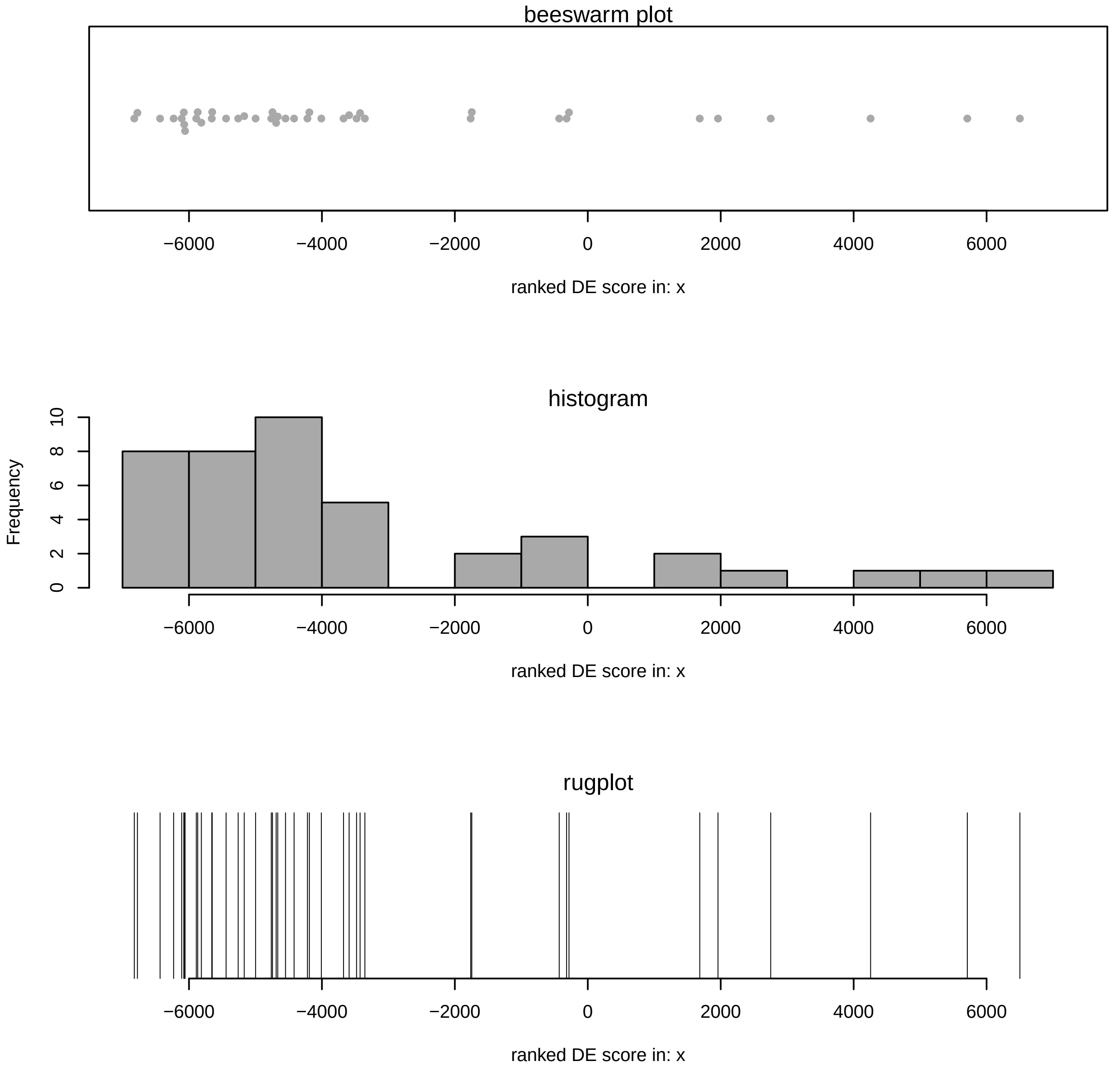

HSF1 activation
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

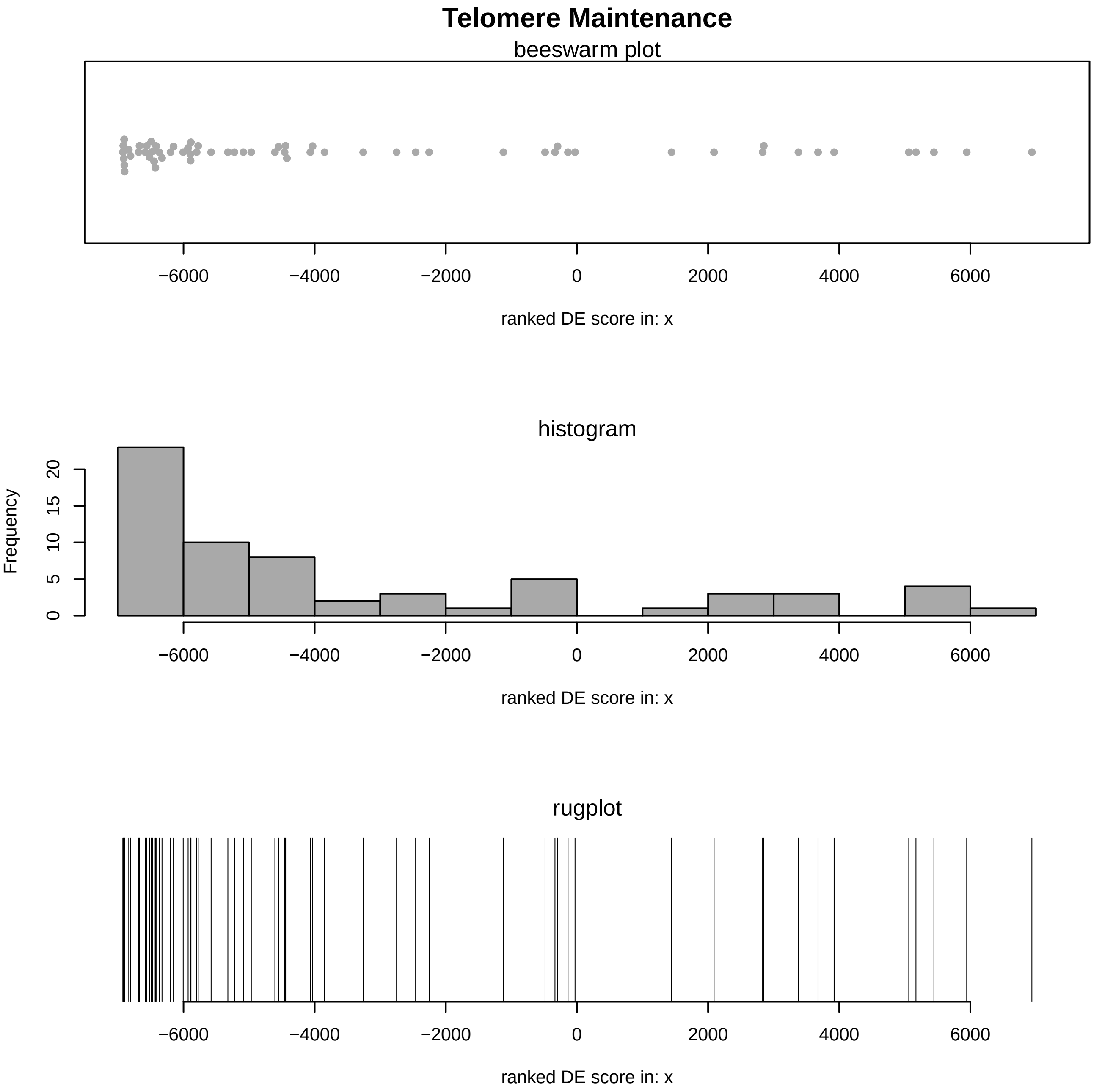

Microtubule−dependent trafficking of connexons from Golgi to the plasma membrane
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


AUF1 (hnRNP D0) binds and destabilizes mRNA
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
10
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x


Attenuation phase
beeswarm plot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
histogram
Frequency
0
2
4
6
8
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x
rugplot
−6000
−4000
−2000
0
2000
4000
6000
ranked DE score in: x

FBXL7 down−regulates AURKA during mitotic entry and in early mitosis





Telomere Maintenance

beeswarm plot

histogram

rugplot

Nephrin family interactions