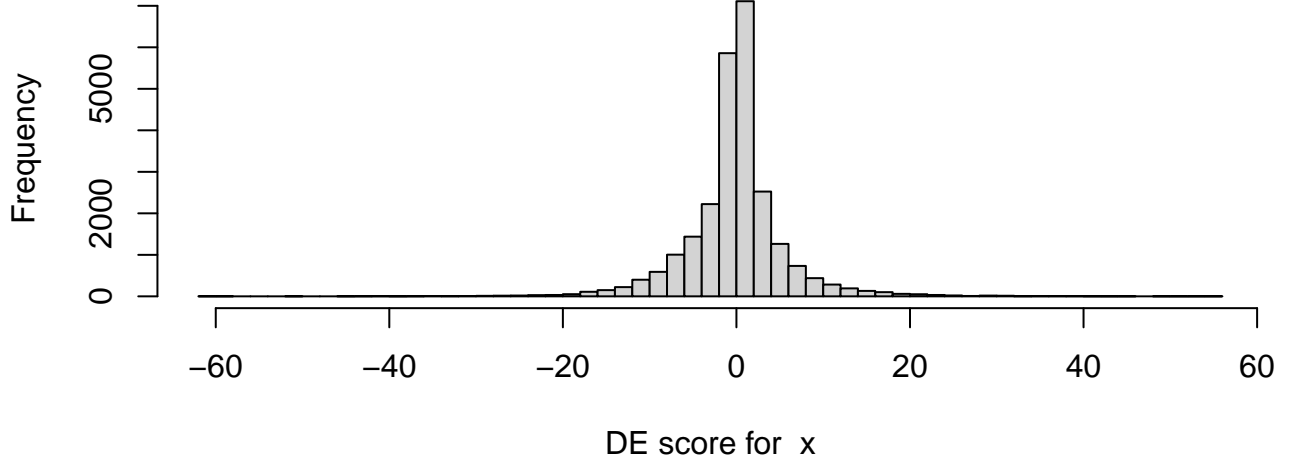
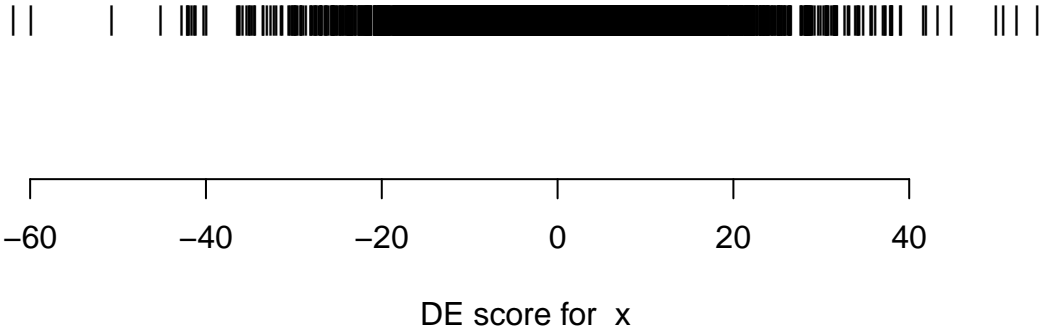


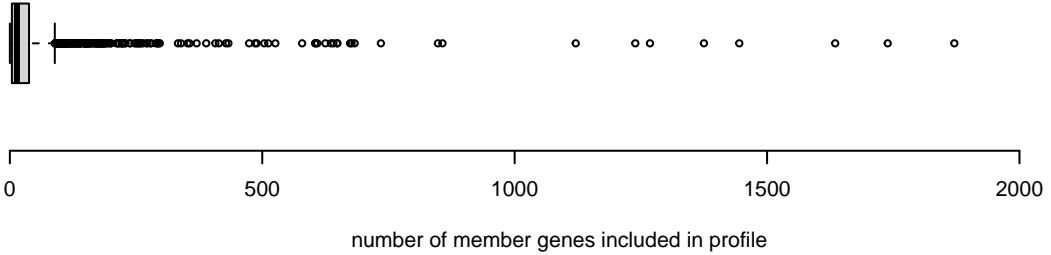
# Distribution of DE scores



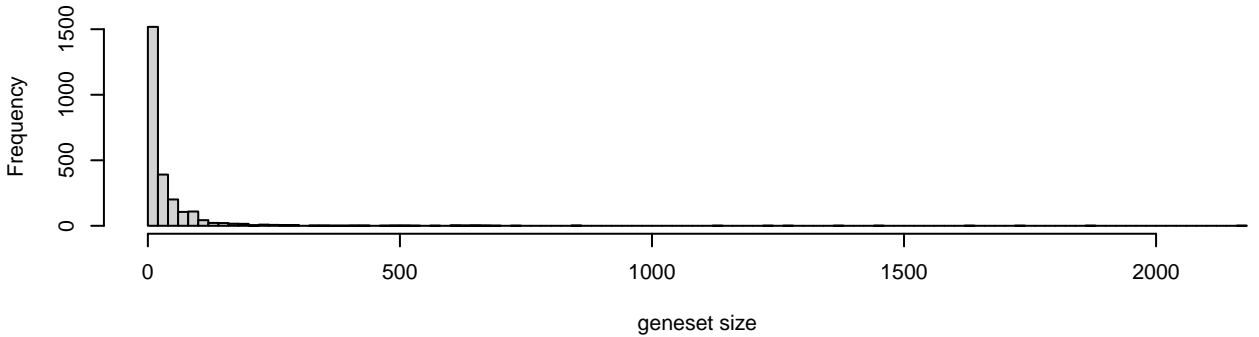
25203 genes in total, 13012 trending up-regulated, 12191 trending down-regulated



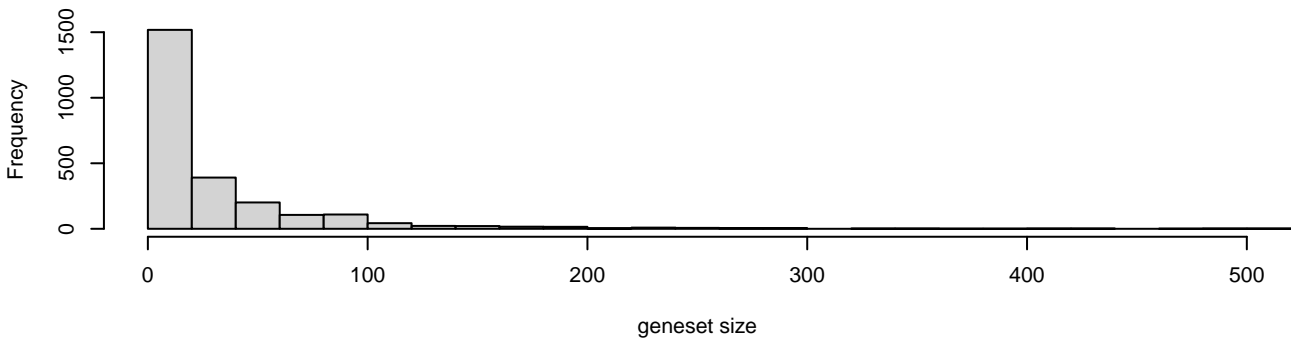
### Gene set size



### Histogram of geneset size

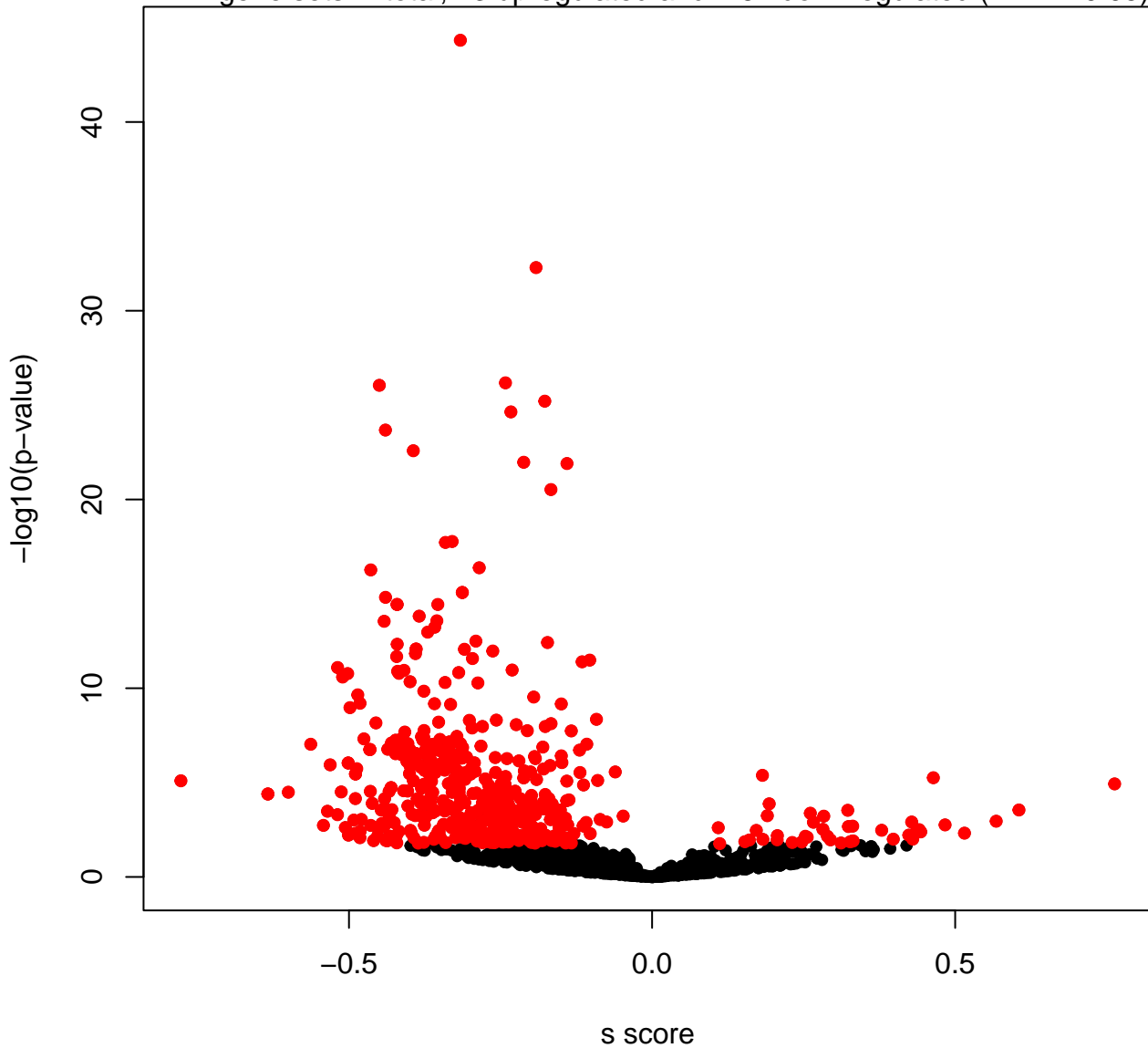


### Trimmed histogram of geneset size



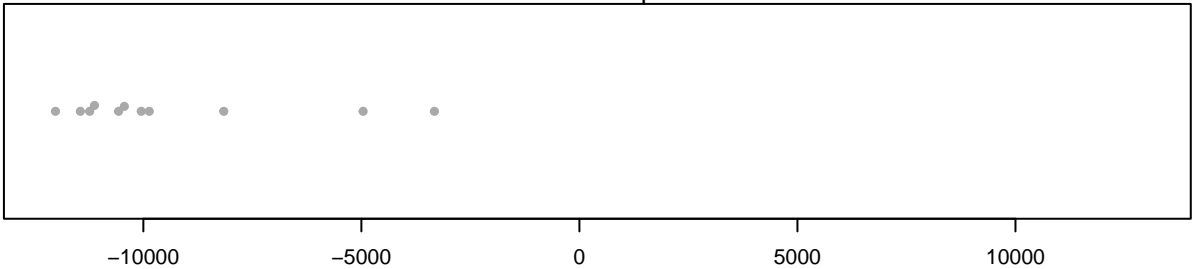
# volcano plot of gene set enrichments

1472 gene sets in total, 43 upregulated and 464 downregulated (FDR<=0.05)



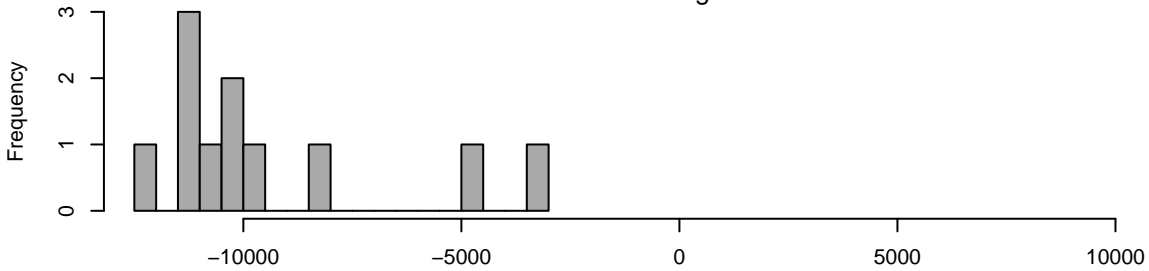
# Receptor Mediated Mitophagy

beeswarm plot



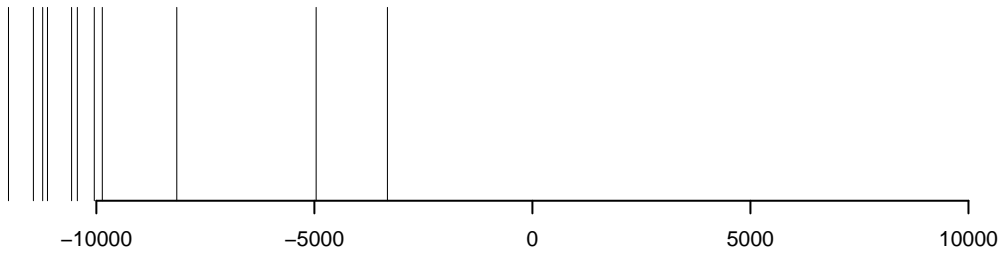
ranked DE score in: x

histogram



ranked DE score in: x

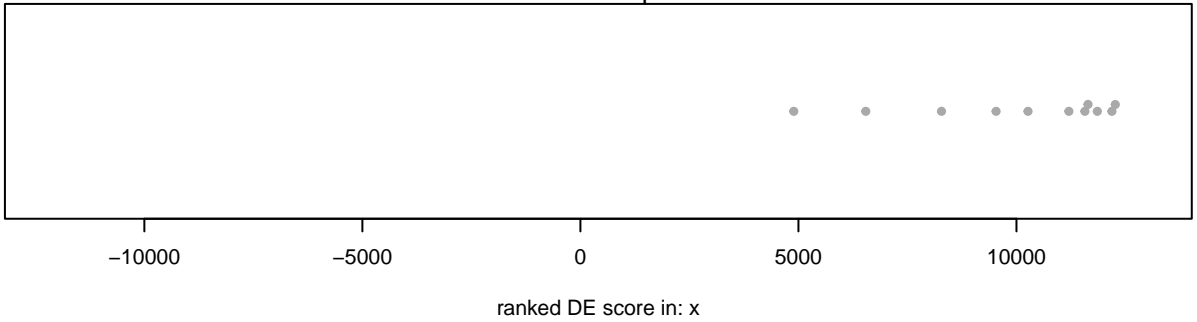
rugplot



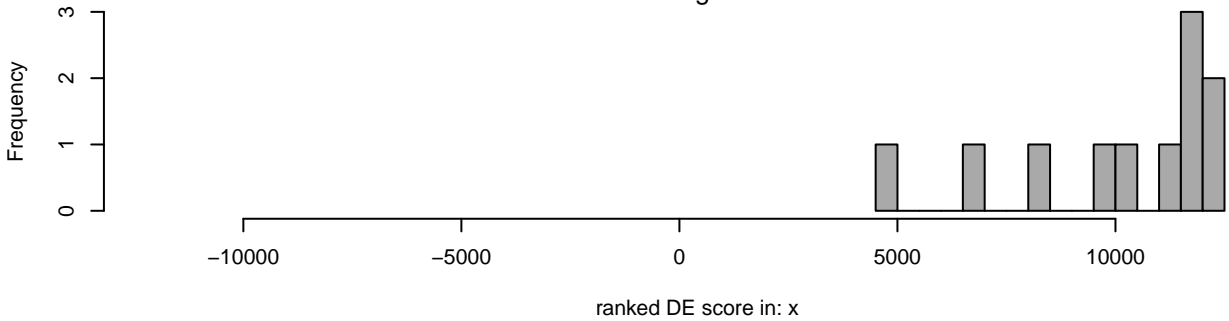
ranked DE score in: x

# Mucopolysaccharidoses

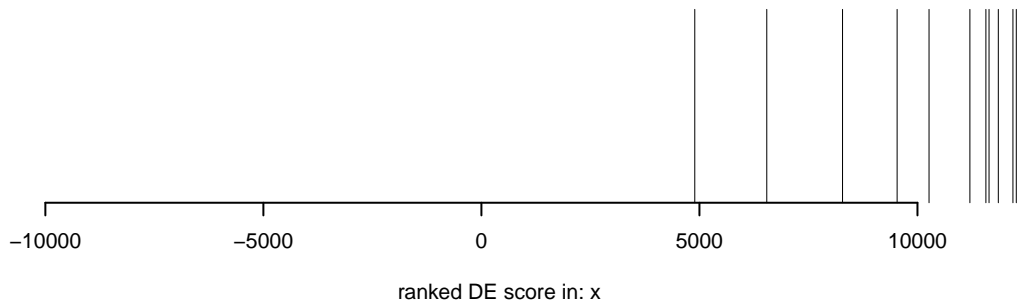
beeswarm plot



histogram

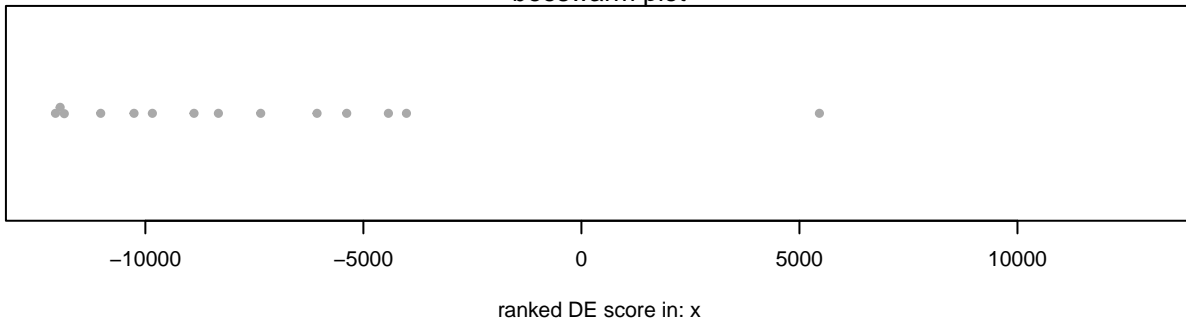


rugplot

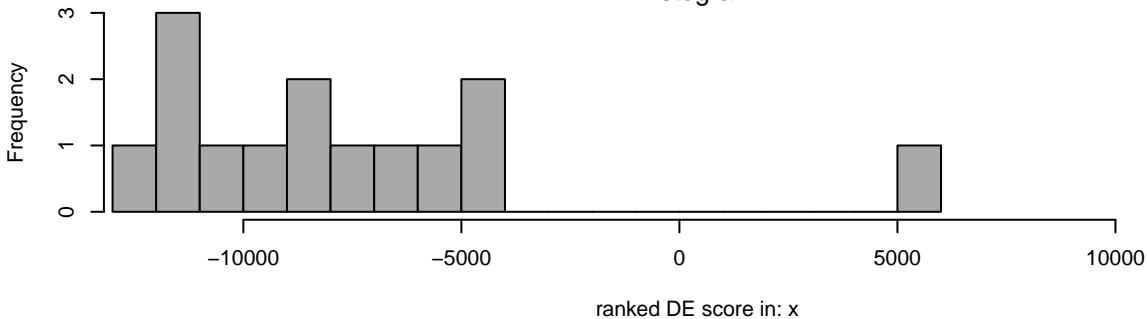


# Membrane binding and targetting of GAG proteins

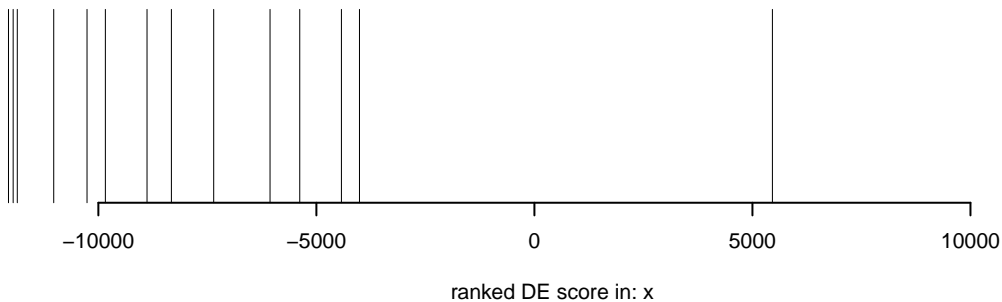
beeswarm plot



histogram

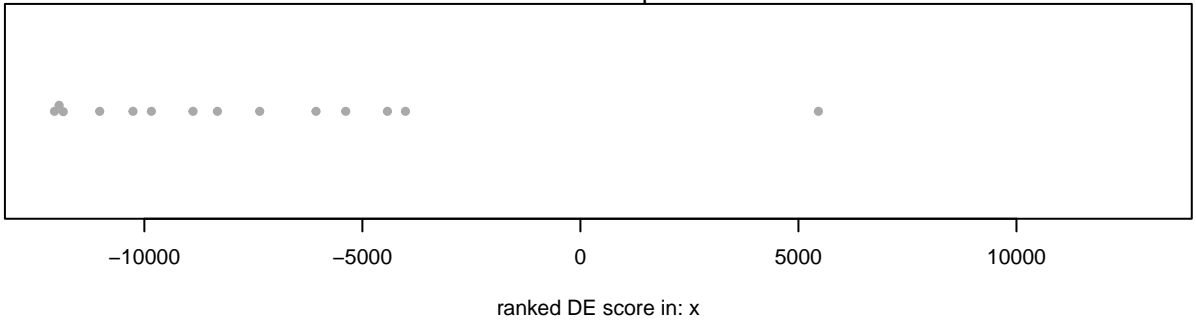


rugplot

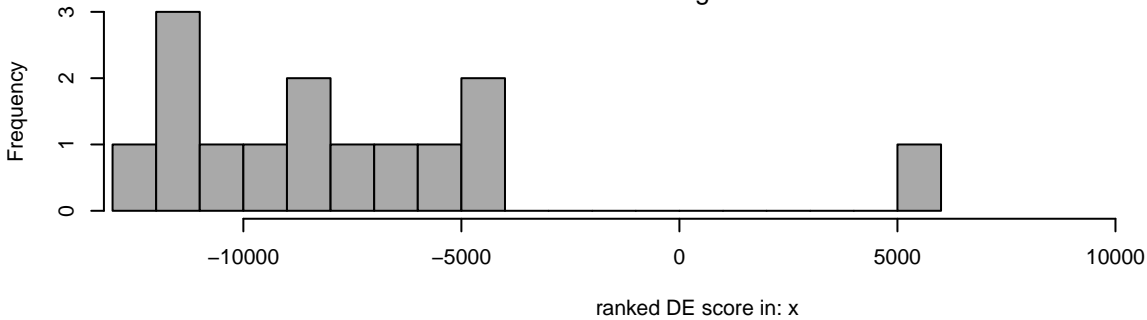


# Synthesis And Processing Of GAG, GAGPOL Polyproteins

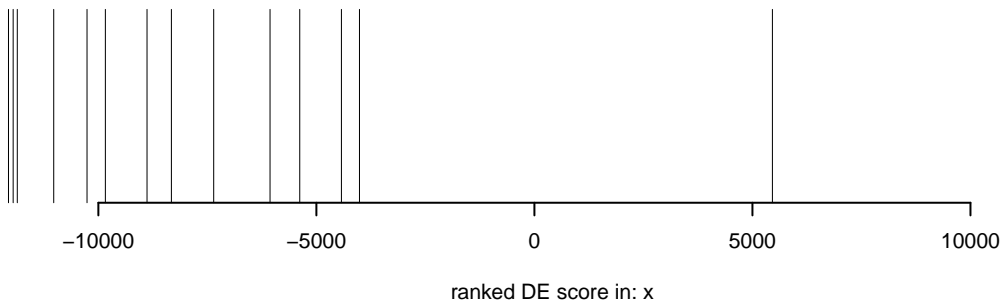
beeswarm plot



histogram

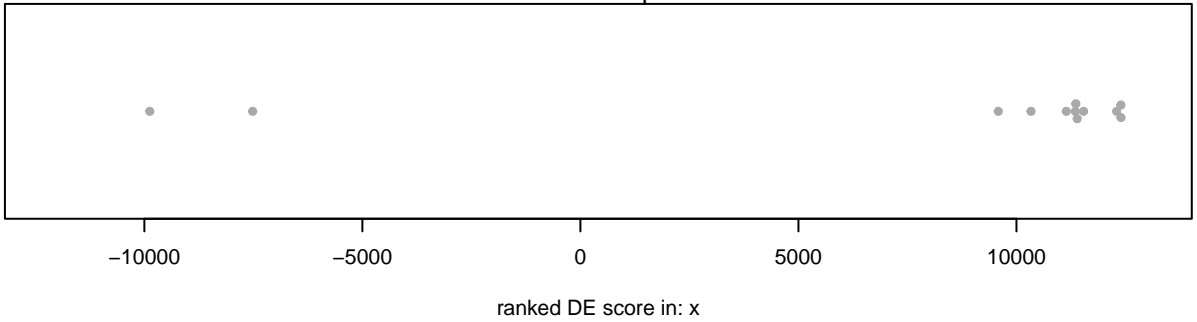


rugplot

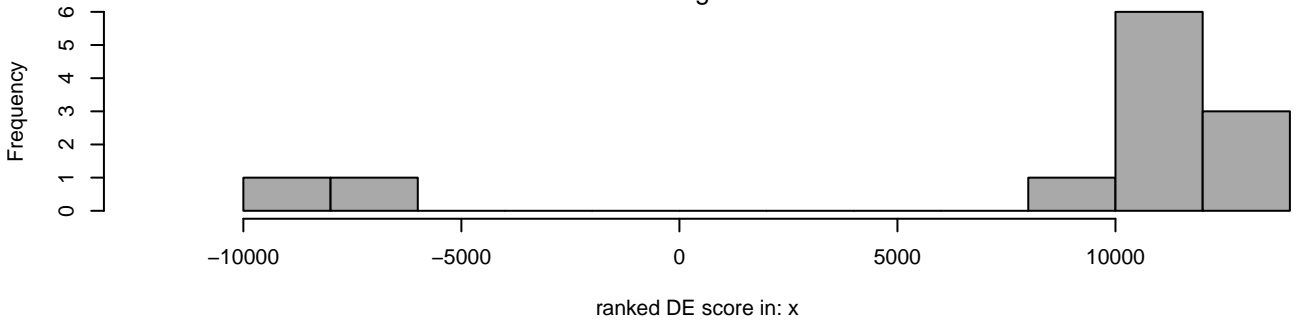


# Unwinding of DNA

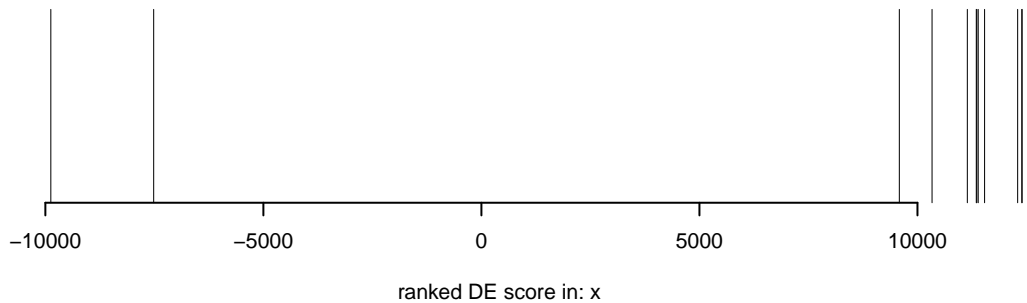
beeswarm plot



histogram



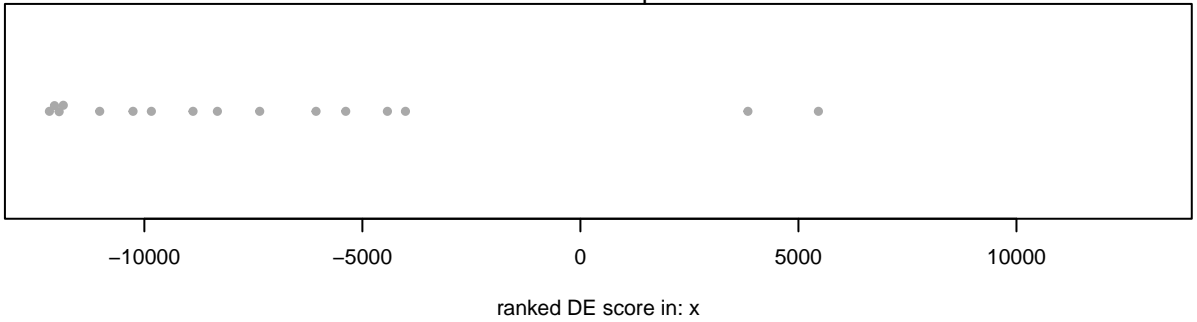
rugplot



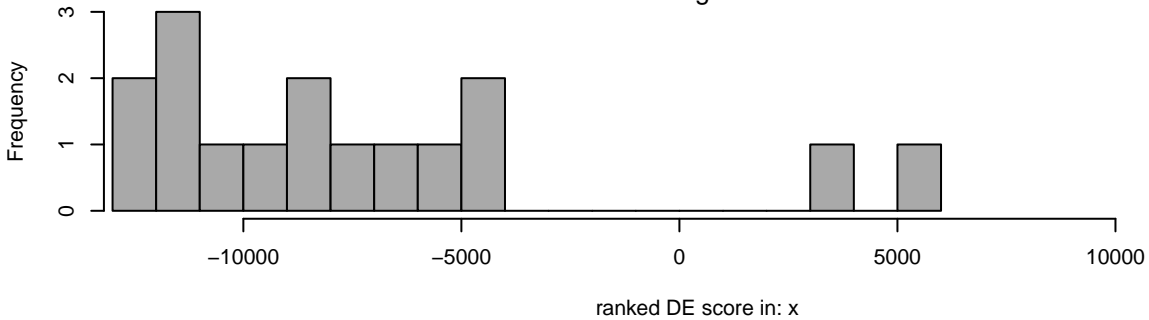


# Assembly Of The HIV Virion

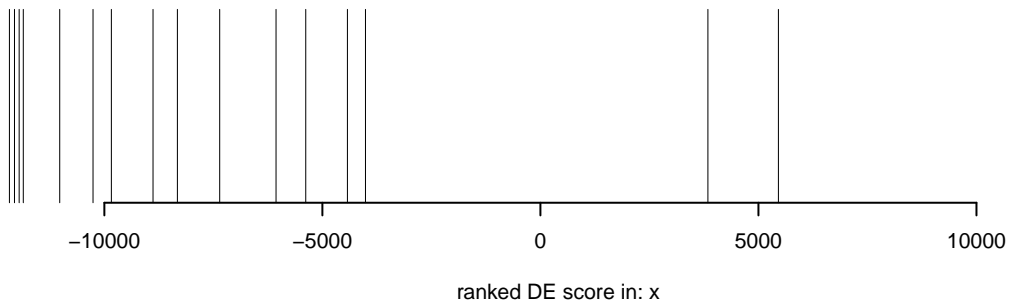
beeswarm plot



histogram

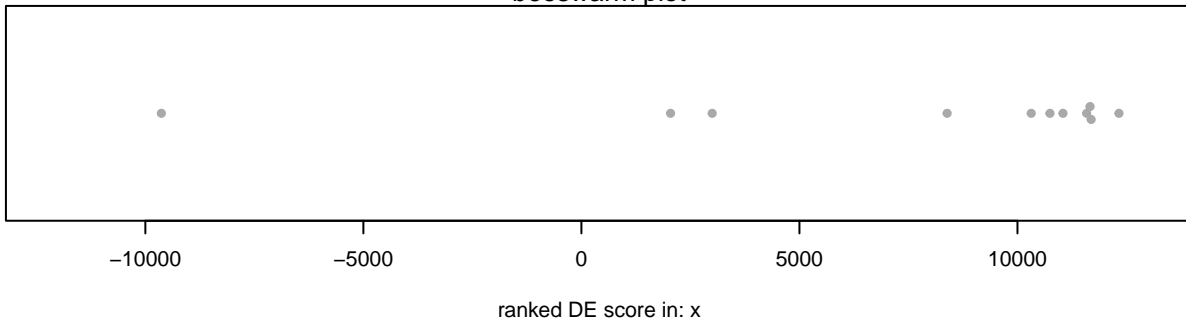


rugplot

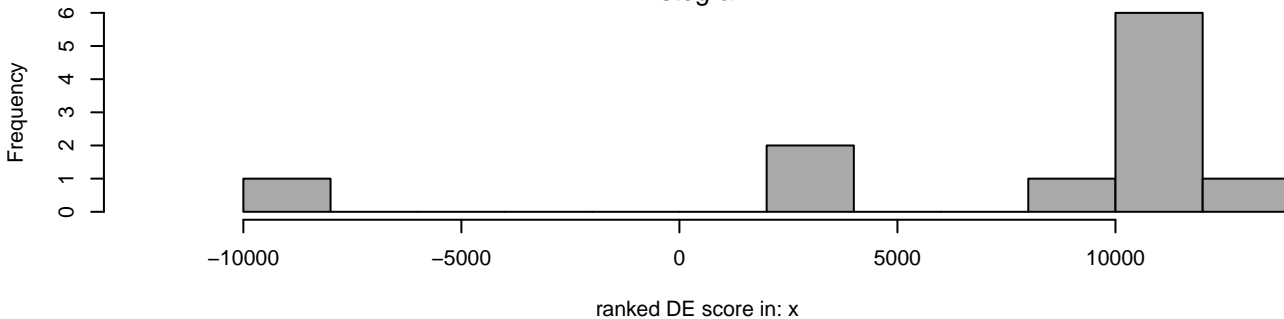


# Biotin transport and metabolism

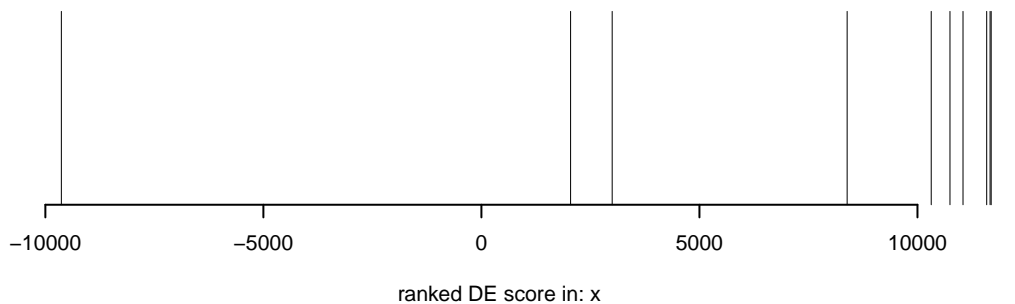
beeswarm plot



histogram

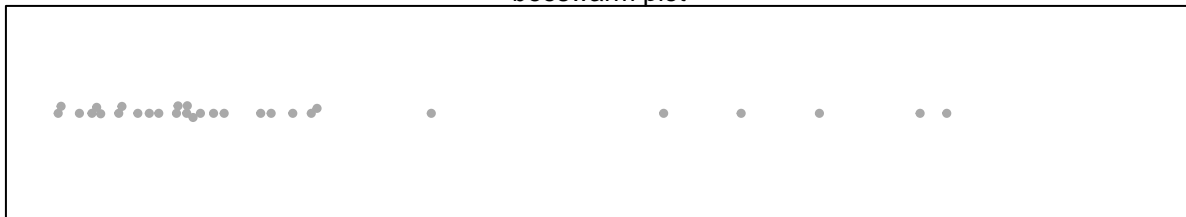


rugplot



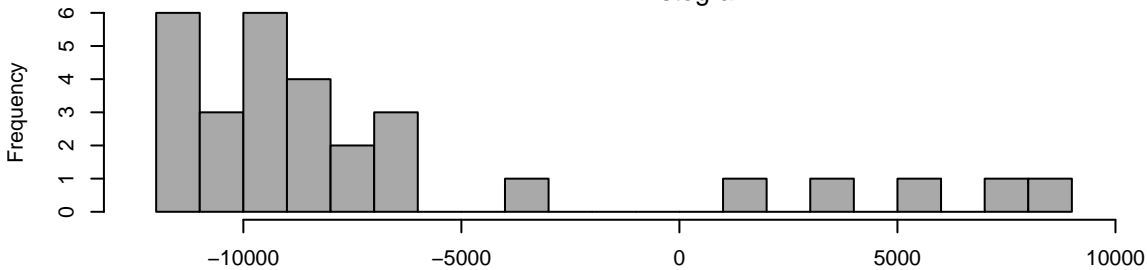
# Synthesis of active ubiquitin: roles of E1 and E2 enzymes

beeswarm plot



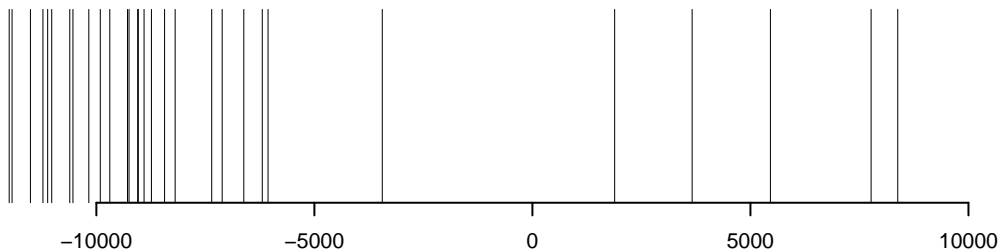
ranked DE score in: x

histogram



ranked DE score in: x

rugplot



ranked DE score in: x

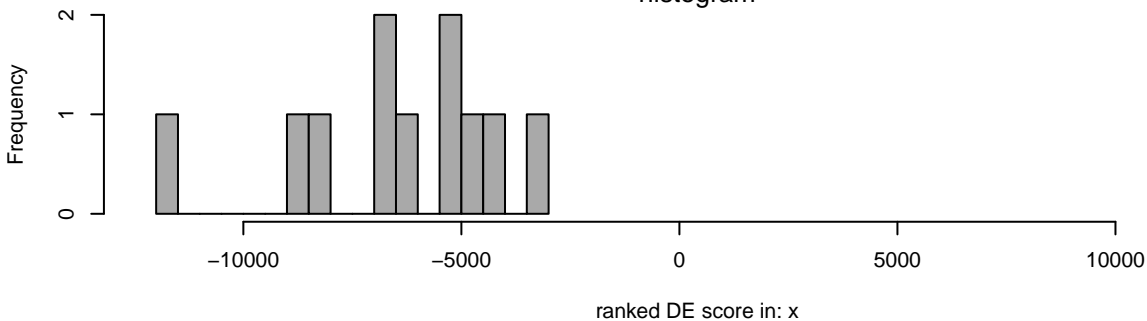
# SLBP Dependent Processing of Replication-Dependent Histone Pre-mRNAs

beeswarm plot



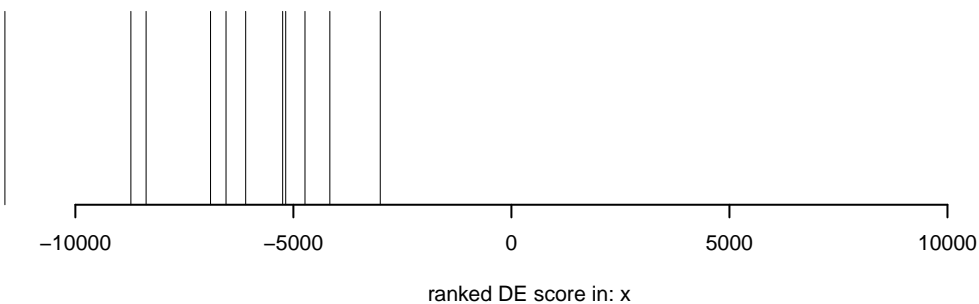
ranked DE score in: x

histogram



ranked DE score in: x

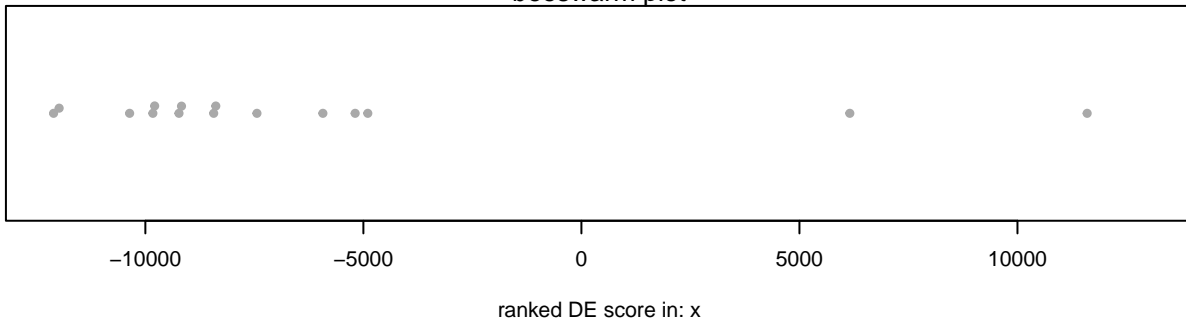
rugplot



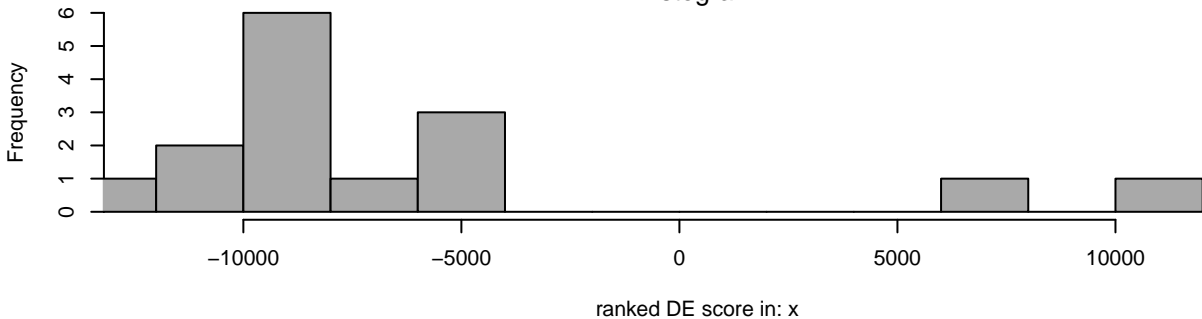
ranked DE score in: x

# Signaling by Activin

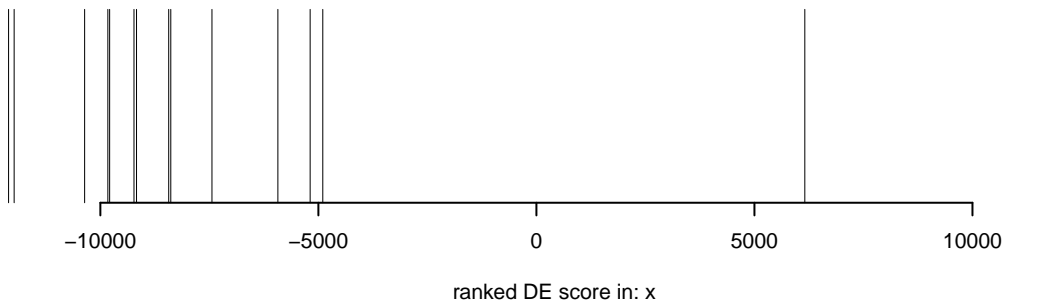
beeswarm plot



histogram



rugplot



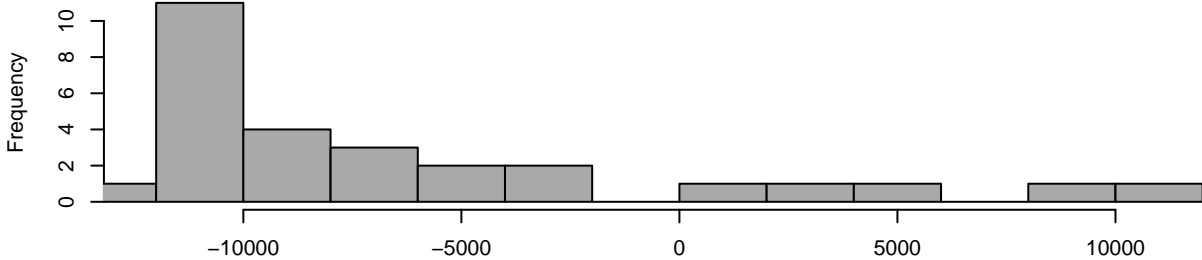
# Mitophagy

beeswarm plot



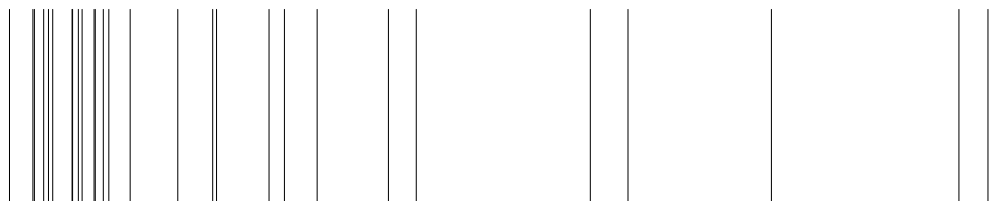
ranked DE score in: x

histogram



ranked DE score in: x

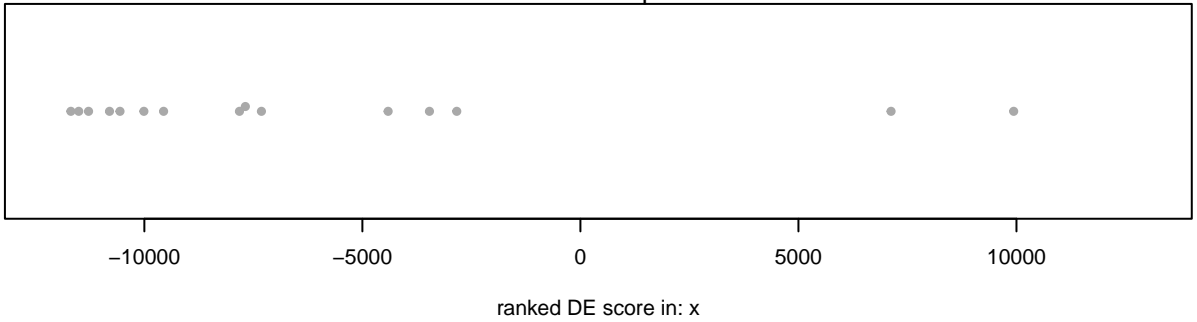
rugplot



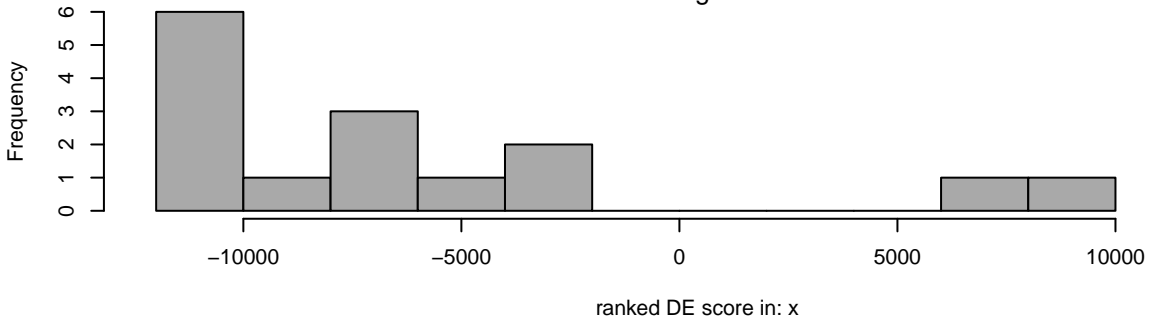
ranked DE score in: x

# Response of EIF2AK1 (HRI) to heme deficiency

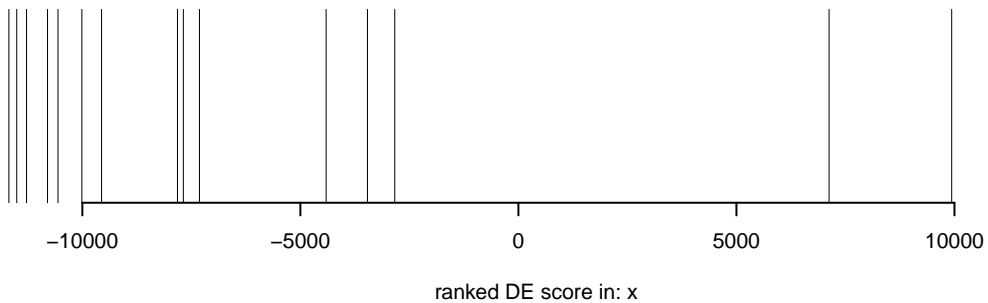
beeswarm plot



histogram

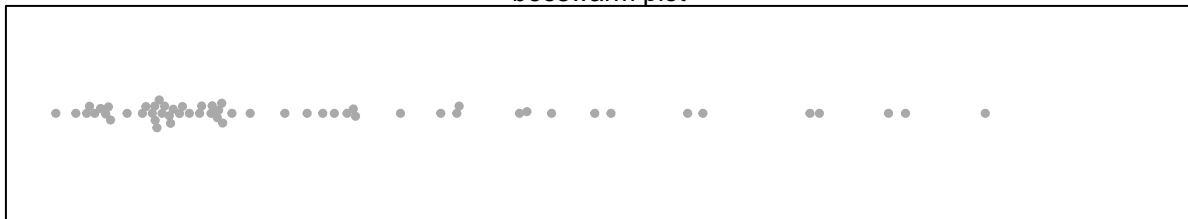


rugplot



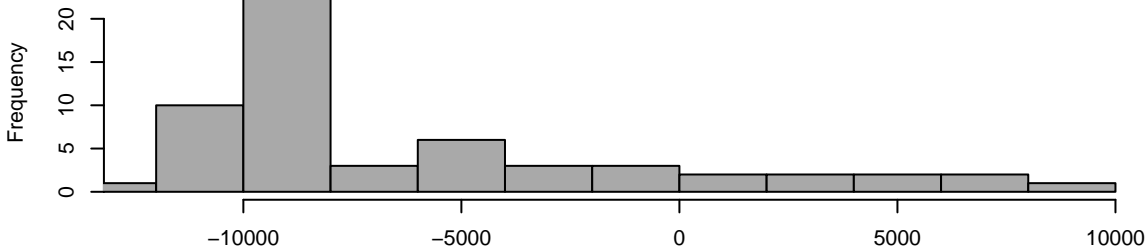
on of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent bin

beeswarm plot



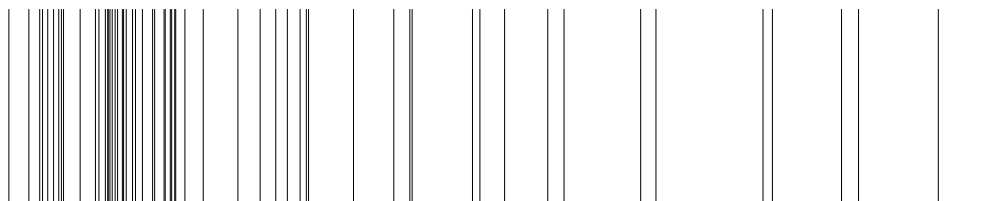
ranked DE score in: x

histogram



ranked DE score in: x

rugplot

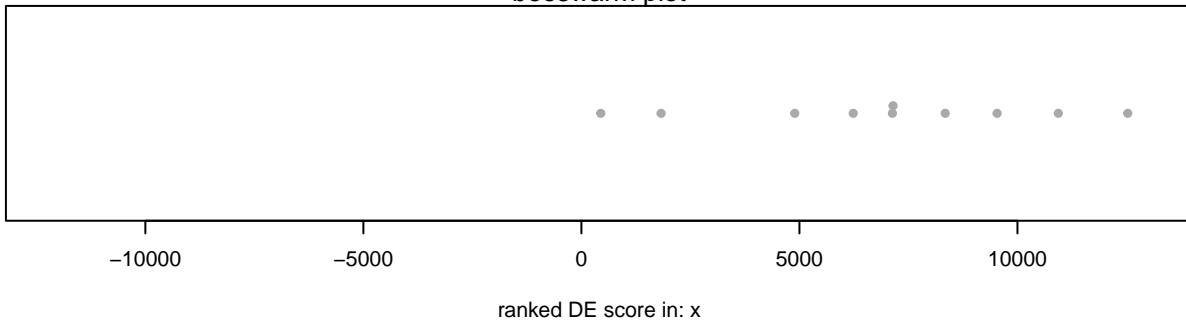


ranked DE score in: x

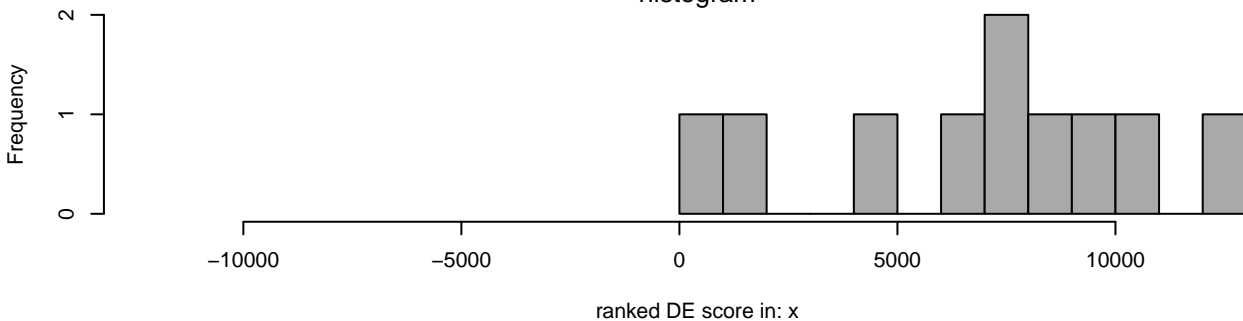


# Hyaluronan uptake and degradation

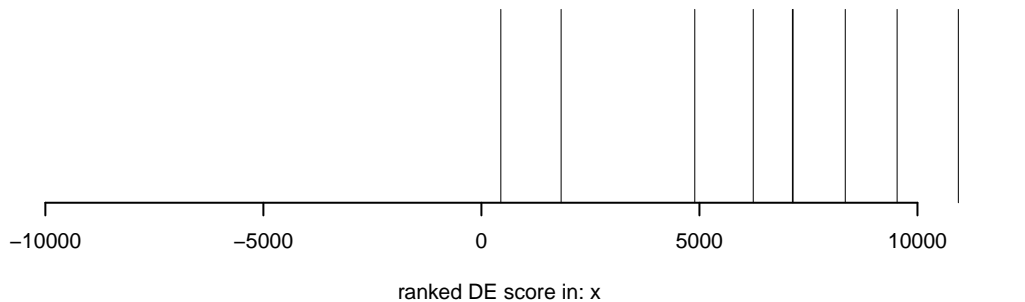
beeswarm plot



histogram

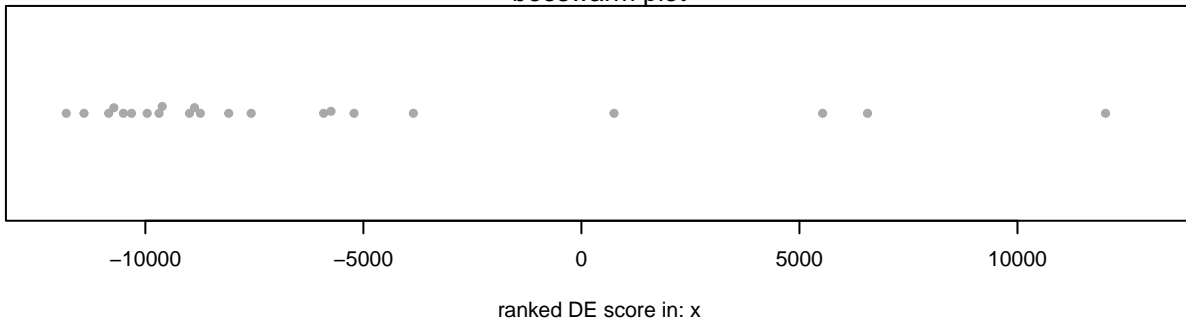


rugplot

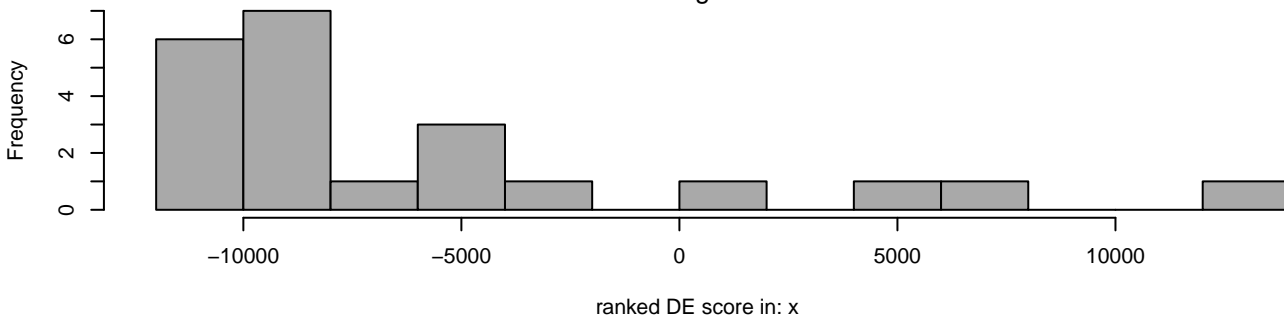


# Insertion of tail-anchored proteins into the endoplasmic reticulum membrane

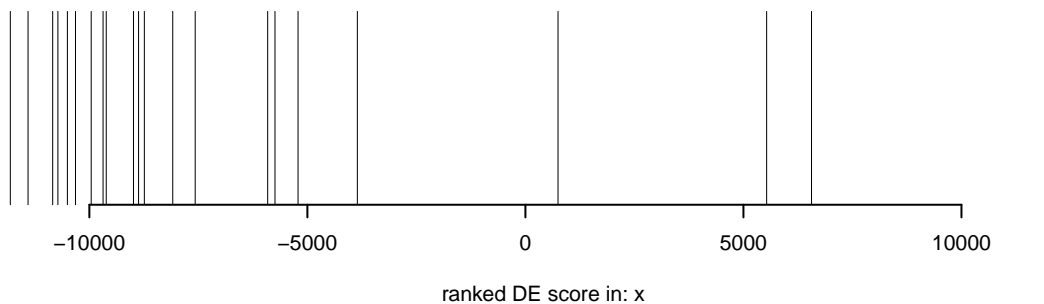
beeswarm plot



histogram

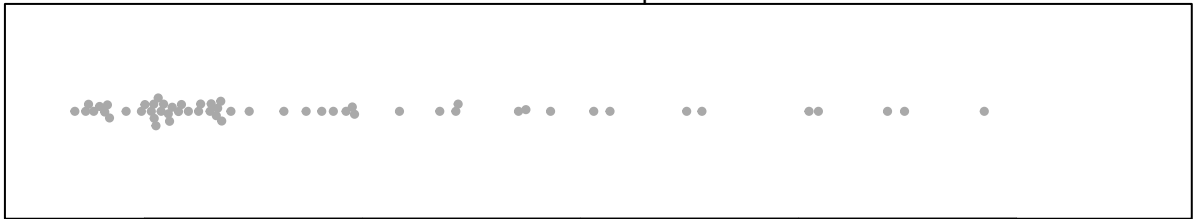


rugplot



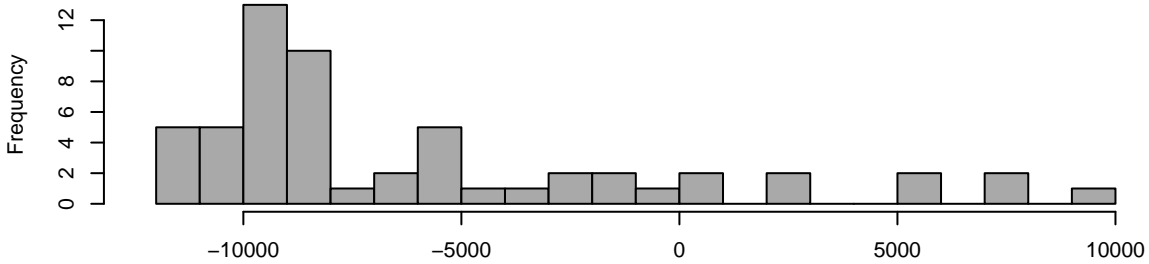
# Translation initiation complex formation

beeswarm plot



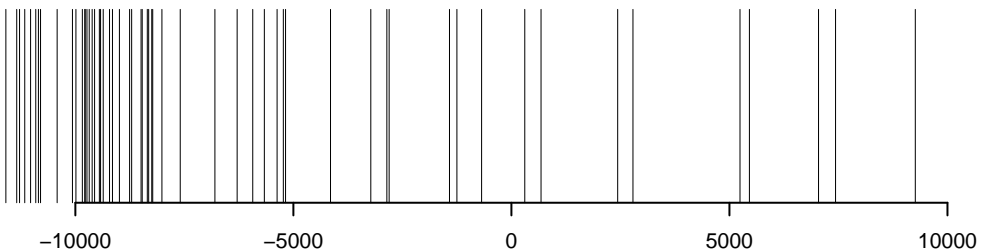
ranked DE score in: x

histogram



ranked DE score in: x

rugplot



ranked DE score in: x

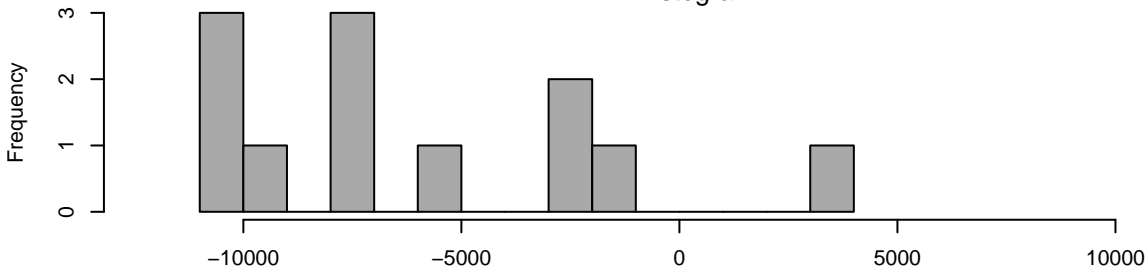
# Lysosphingolipid and LPA receptors

beeswarm plot



ranked DE score in: x

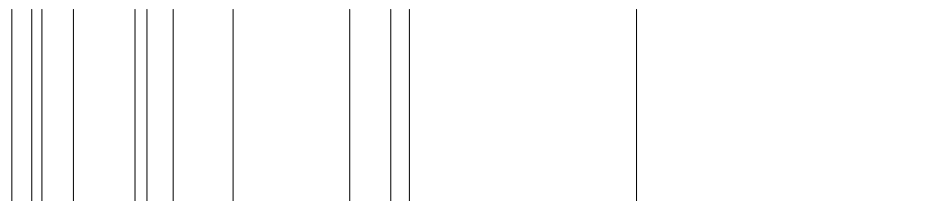
histogram



Frequency

ranked DE score in: x

rugplot



-10000

-5000

0

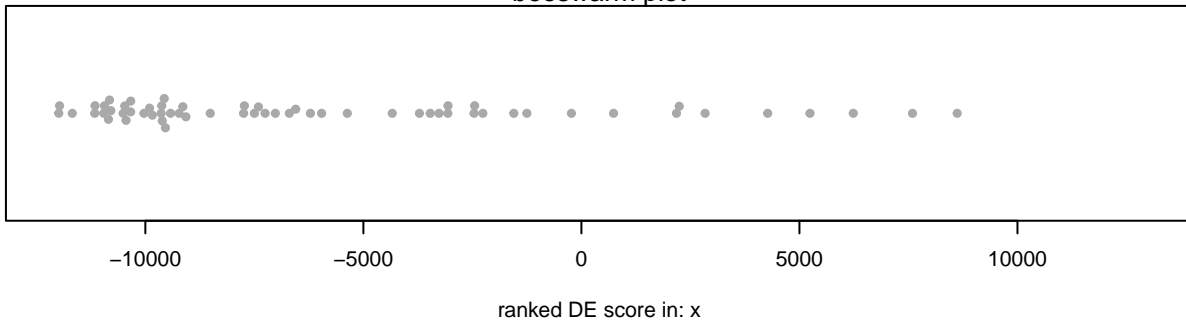
5000

10000

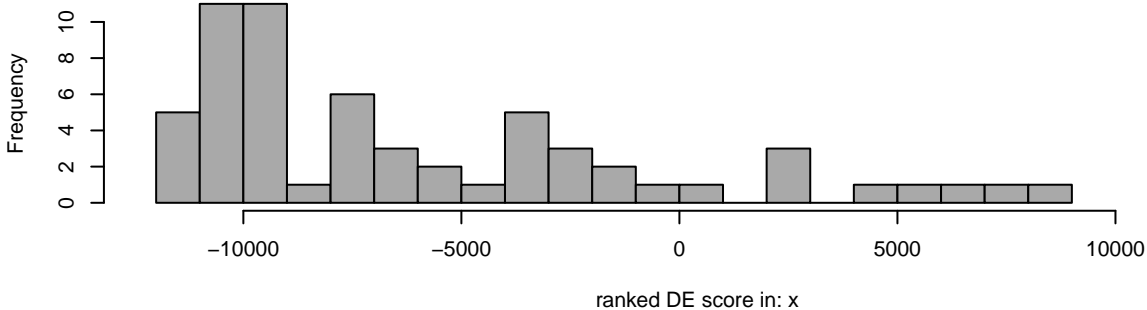
ranked DE score in: x

# rRNA modification in the nucleus and cytosol

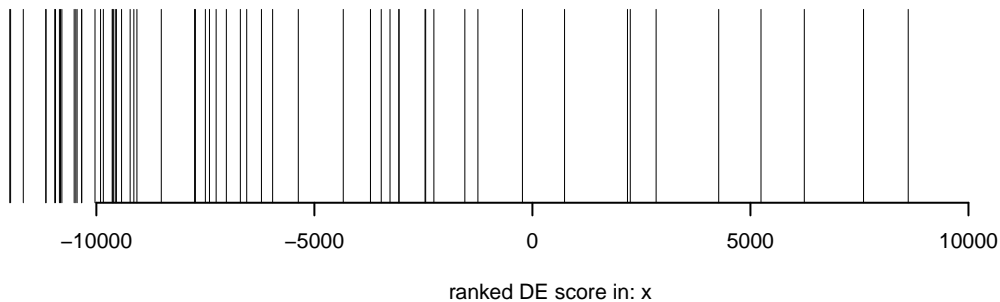
beeswarm plot



histogram



rugplot

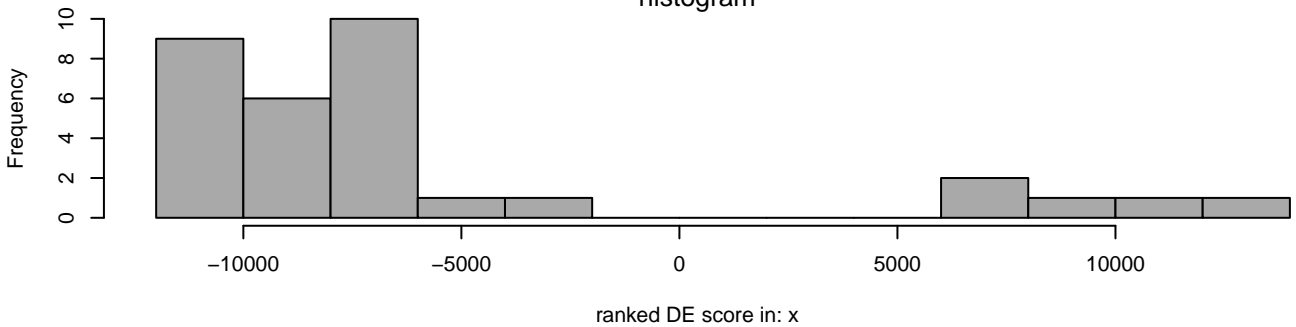


# HIV elongation arrest and recovery

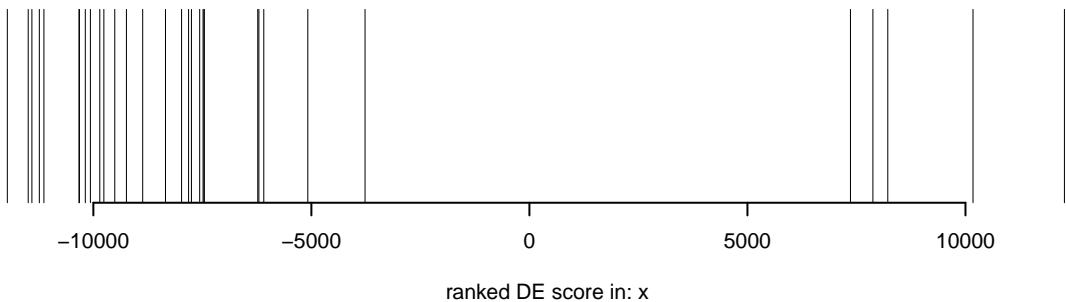
beeswarm plot



histogram

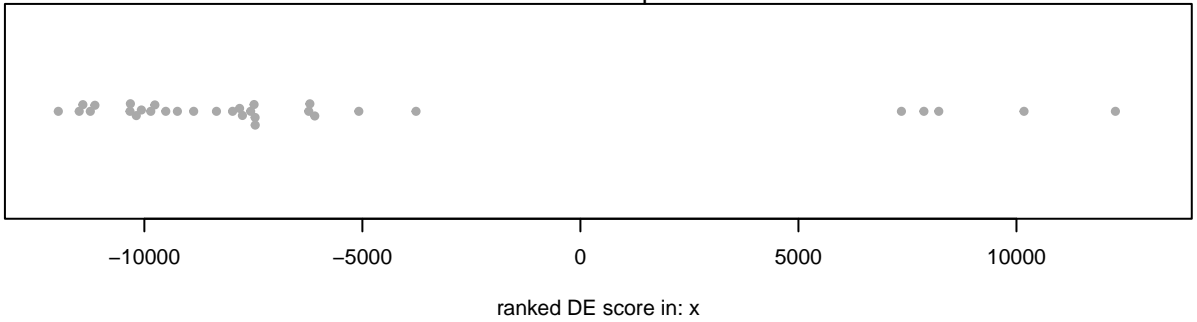


rugplot

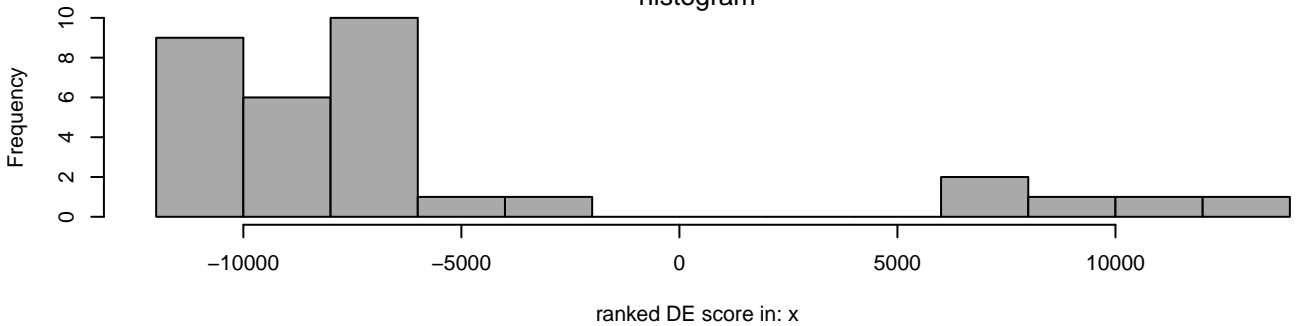


# Pausing and recovery of HIV elongation

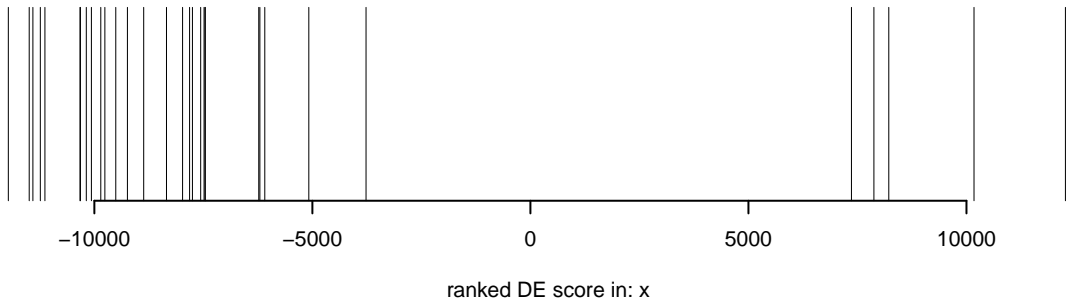
beeswarm plot



histogram

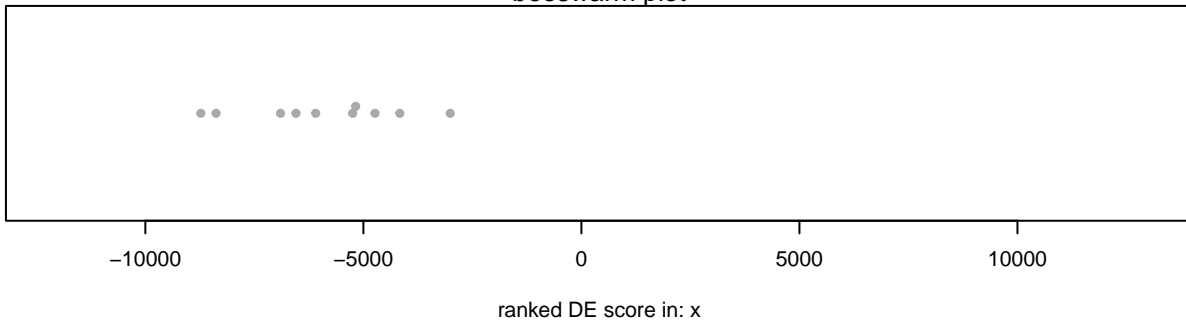


rugplot

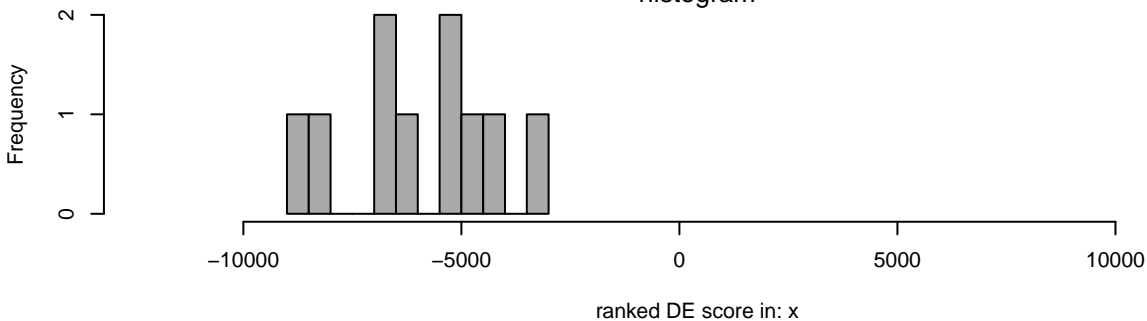


# SLBP independent Processing of Histone Pre-mRNAs

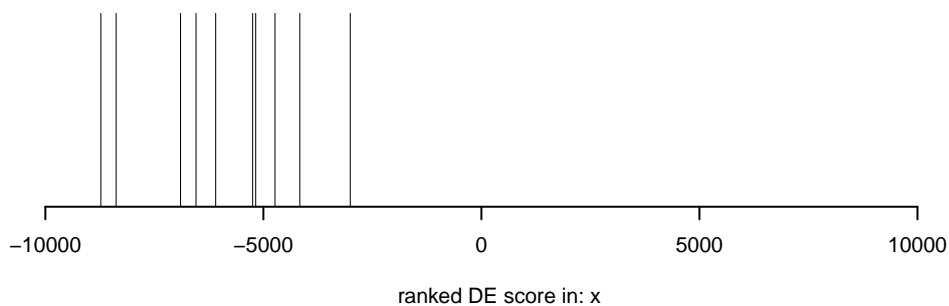
beeswarm plot



histogram



rugplot





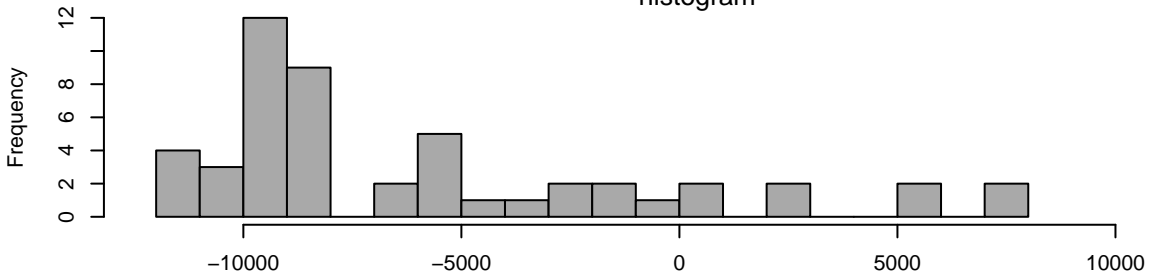
# Formation of the ternary complex, and subsequently, the 43S complex

beeswarm plot



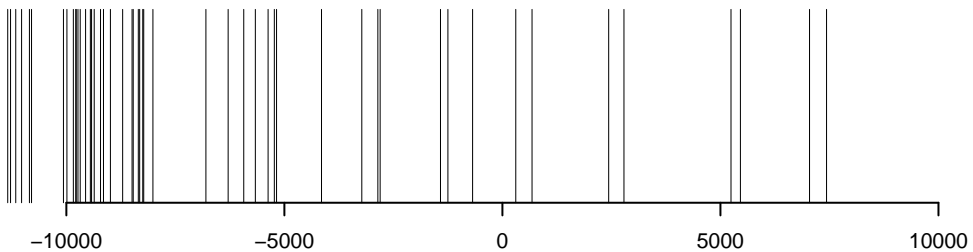
ranked DE score in: x

histogram



ranked DE score in: x

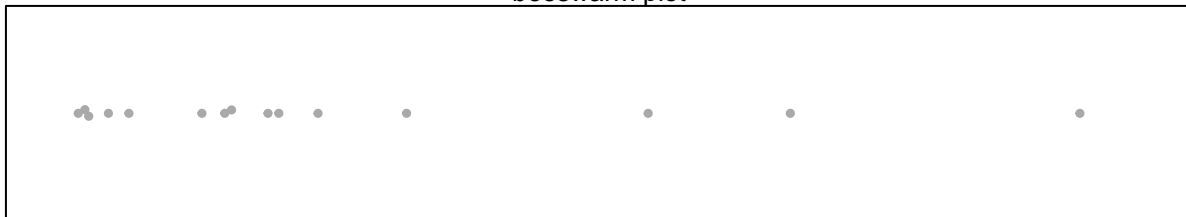
rugplot



ranked DE score in: x

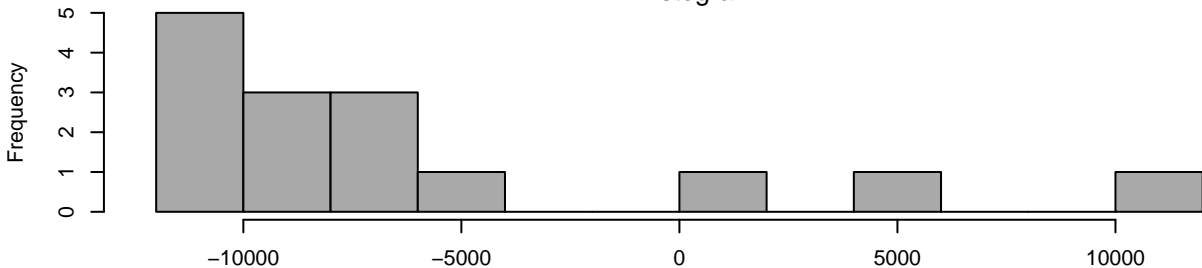
# Protein methylation

beeswarm plot



ranked DE score in: x

histogram



Frequency

-10000

-5000

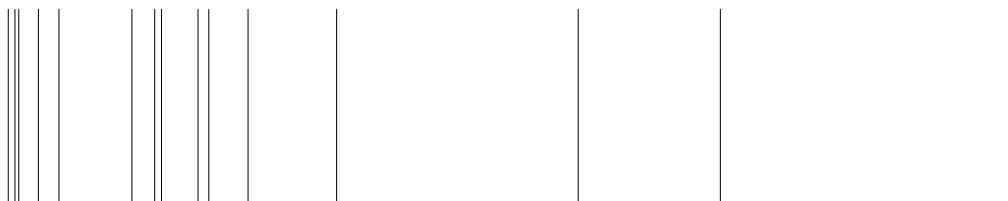
0

5000

10000

ranked DE score in: x

rugplot



-10000

-5000

0

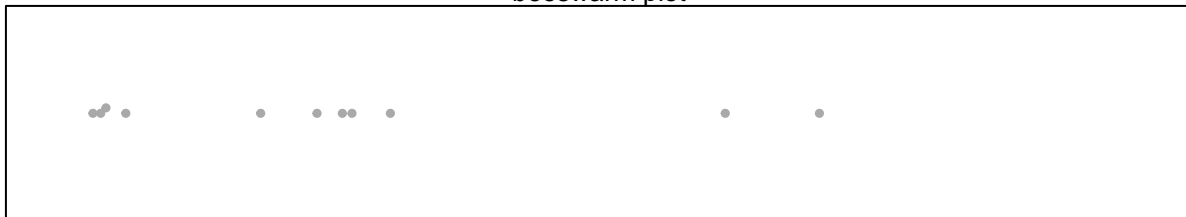
5000

10000

ranked DE score in: x

# TICAM1, TRAF6-dependent induction of TAK1 complex

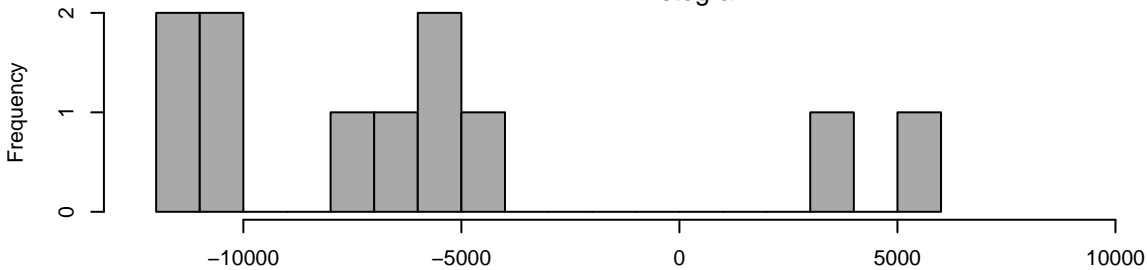
beeswarm plot



ranked DE score in: x

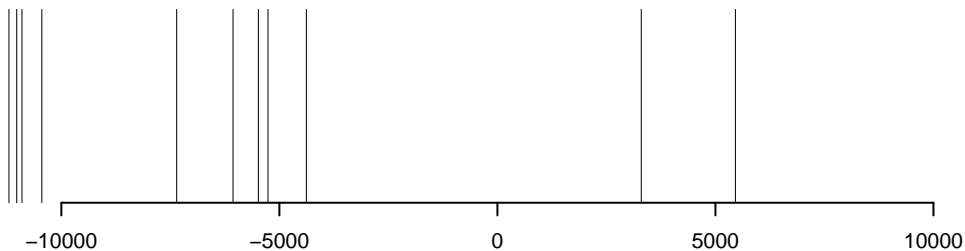
ranked DE score in: x

histogram



ranked DE score in: x

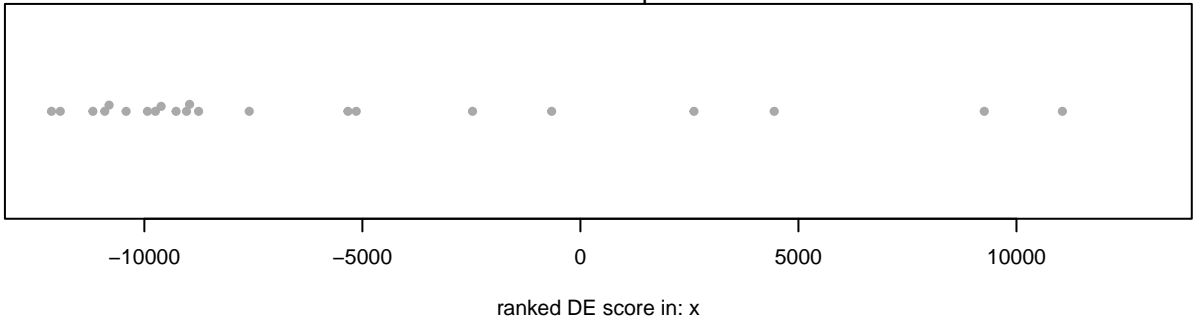
rugplot



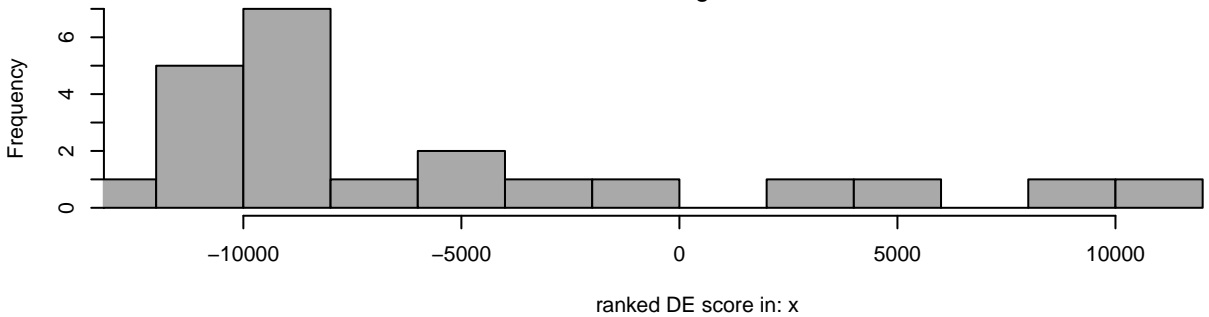
ranked DE score in: x

# Deadenylation of mRNA

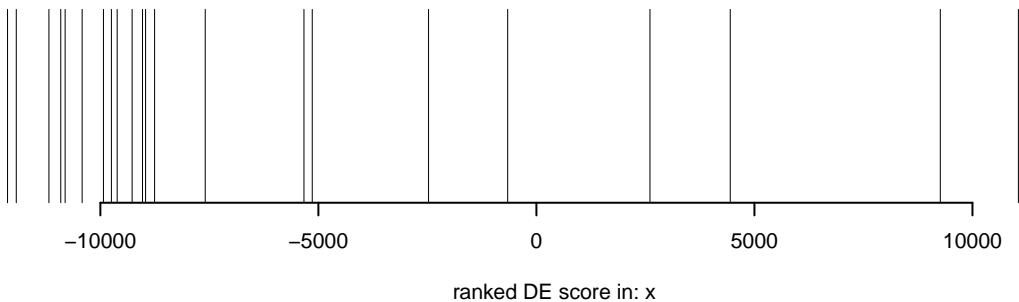
beeswarm plot



histogram

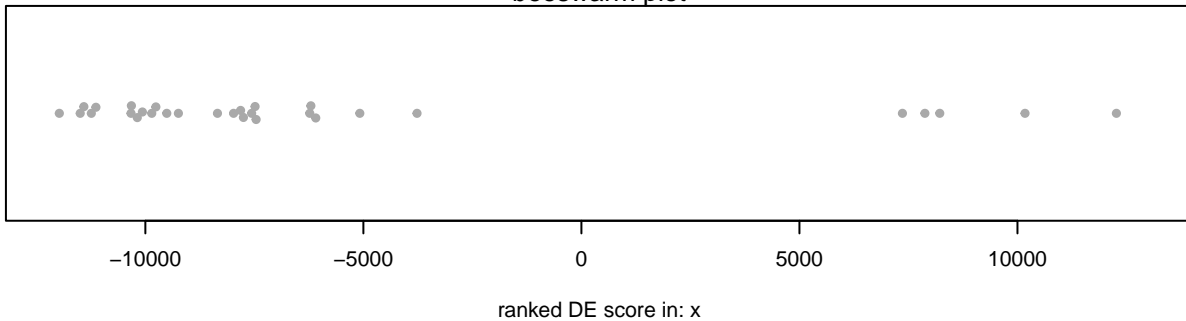


rugplot

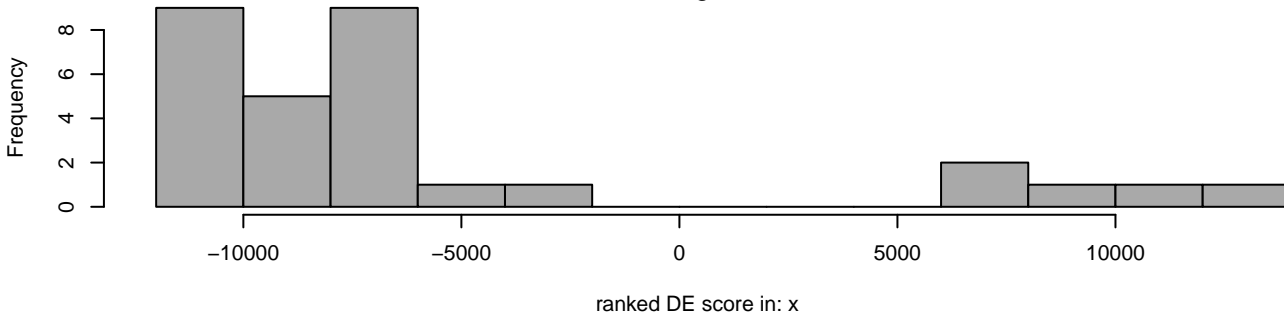


# Pausing and recovery of Tat-mediated HIV elongation

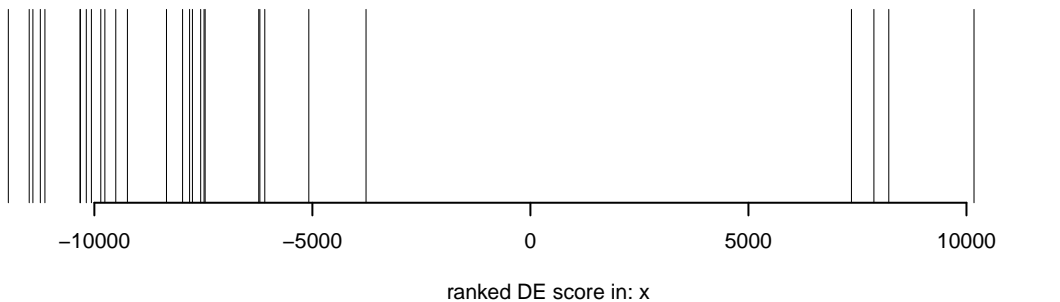
beeswarm plot



histogram

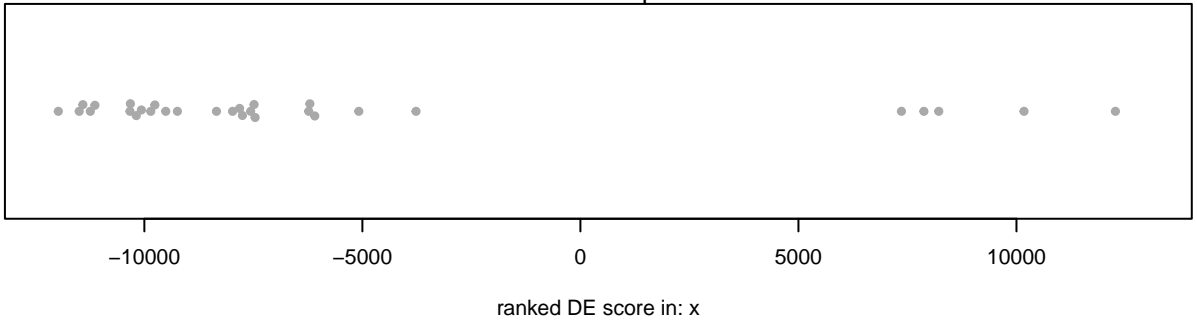


rugplot

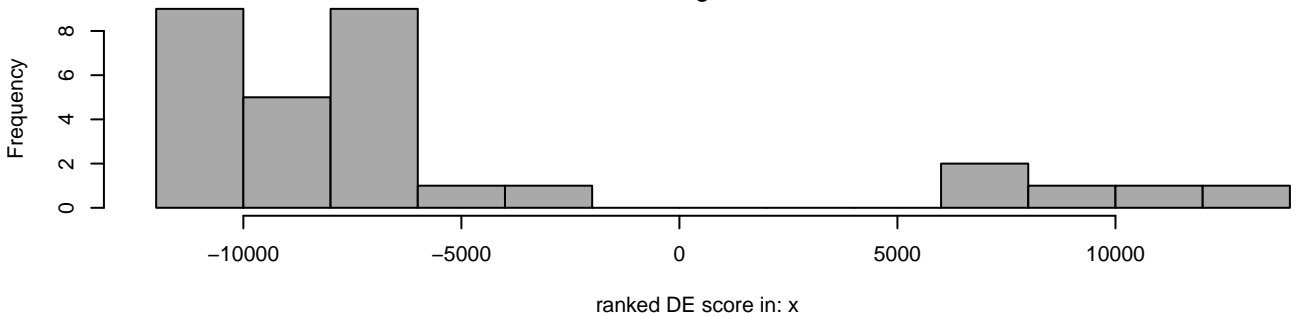


# Tat-mediated HIV elongation arrest and recovery

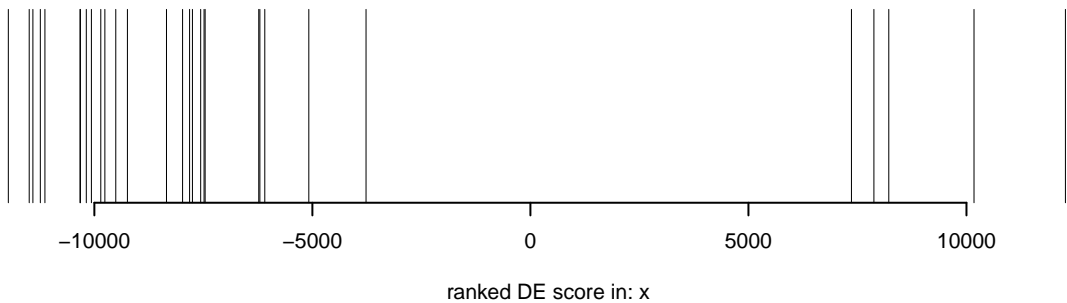
beeswarm plot



histogram

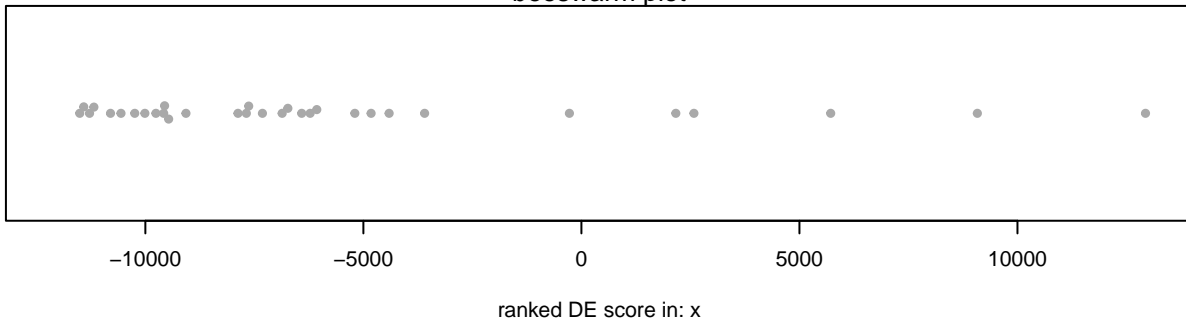


rugplot

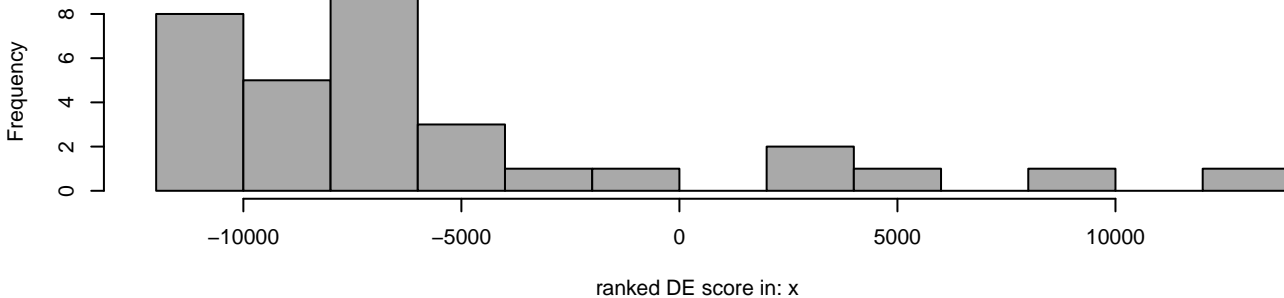


# PERK regulates gene expression

beeswarm plot



histogram

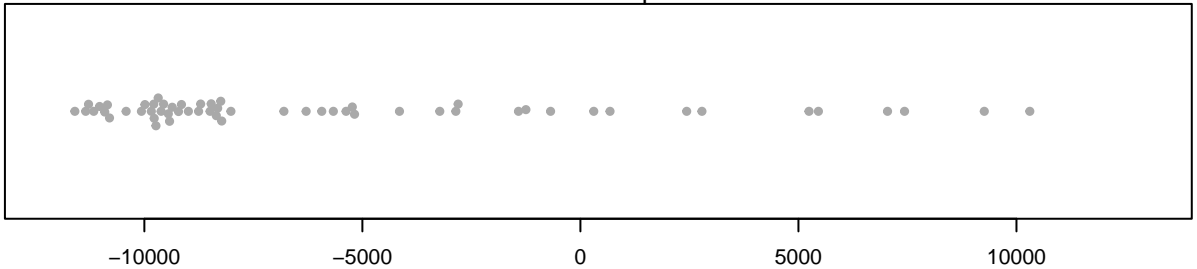


rugplot



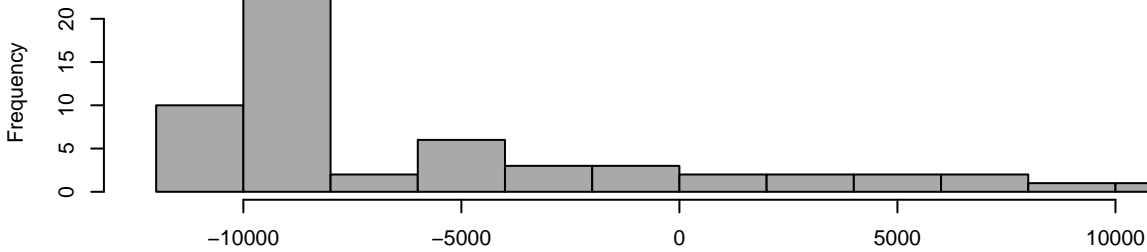
# Ribosomal scanning and start codon recognition

beeswarm plot



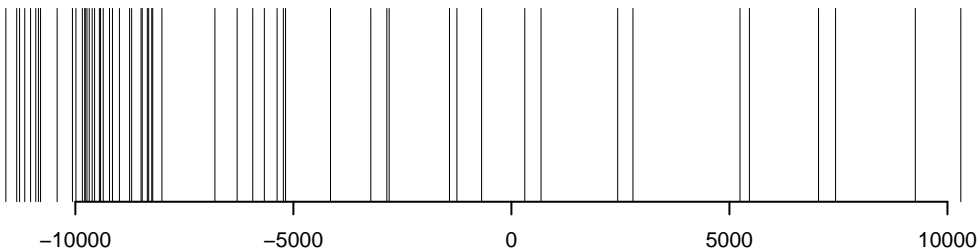
ranked DE score in: x

histogram



ranked DE score in: x

rugplot

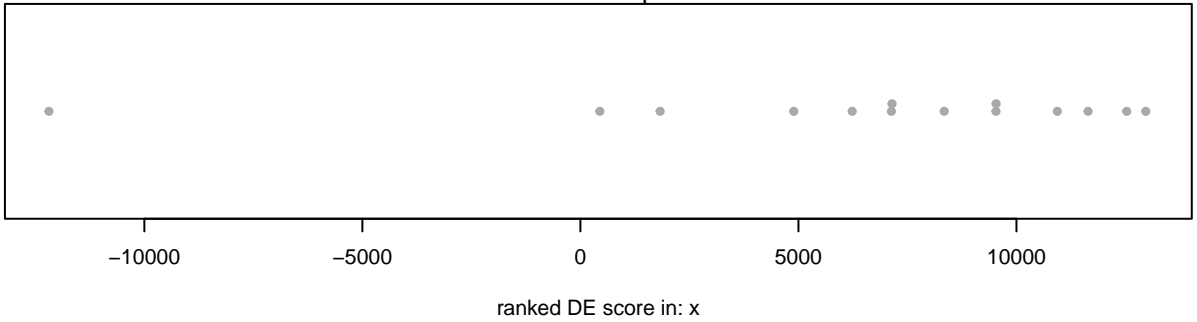


ranked DE score in: x

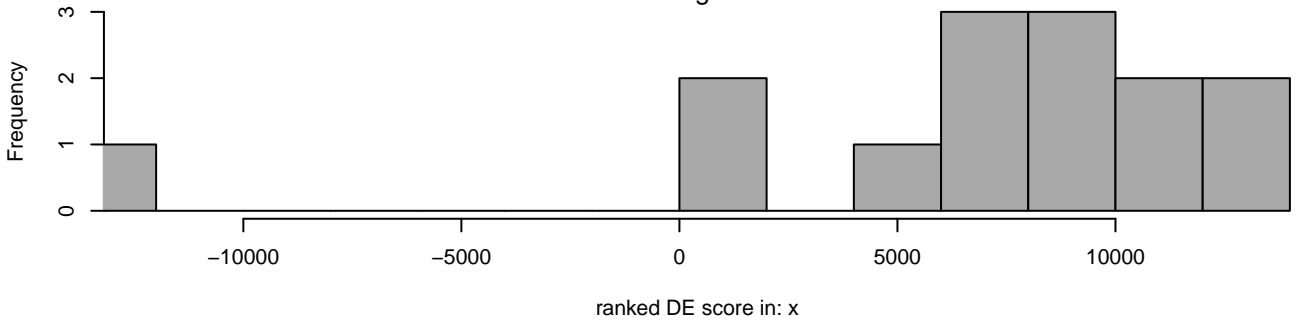


# Hyaluronan metabolism

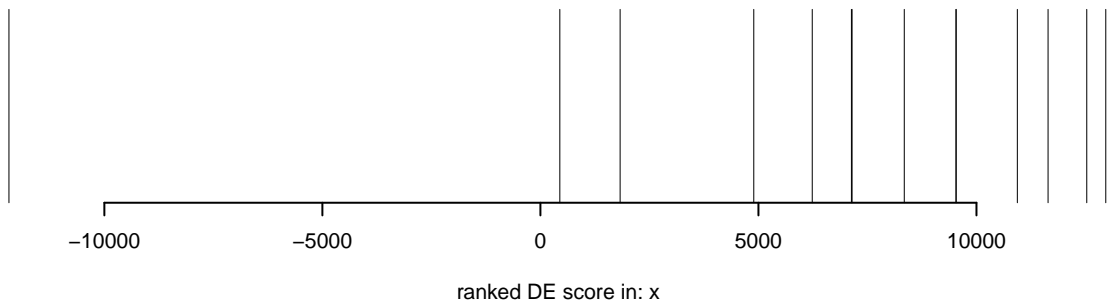
beeswarm plot



histogram

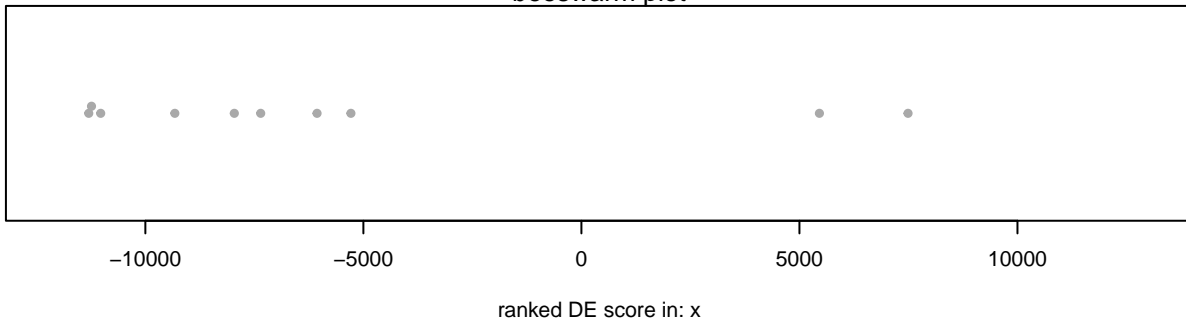


rugplot

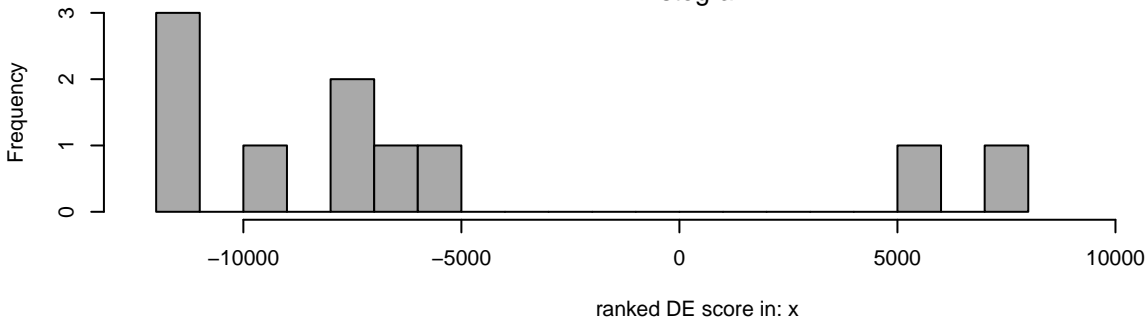


# Josephin domain DUBs

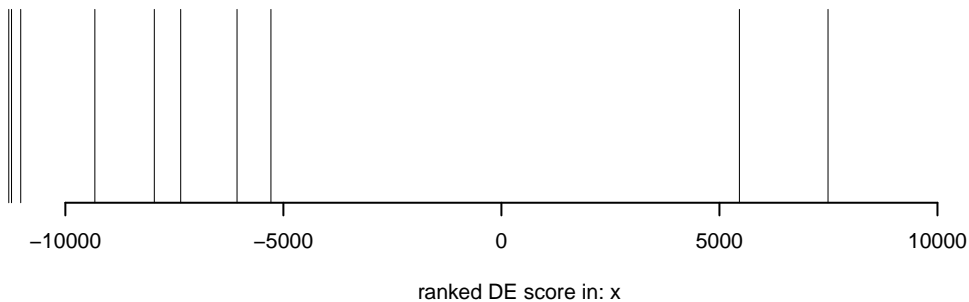
beeswarm plot



histogram

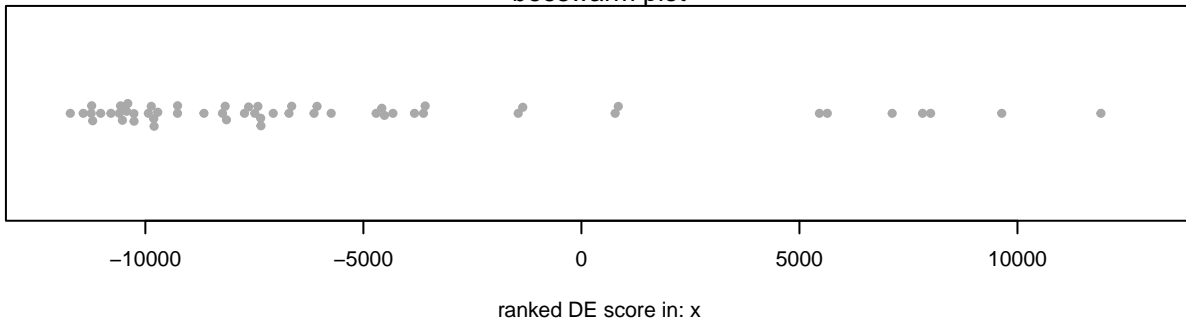


rugplot

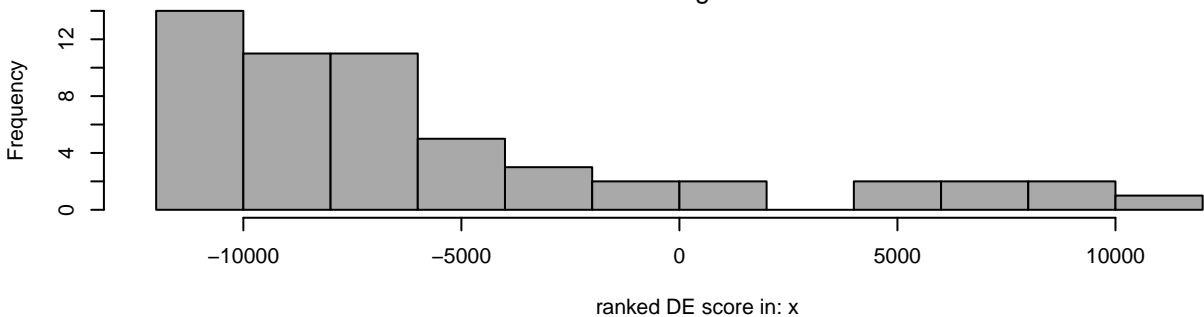


# ROS sensing by NFE2L2

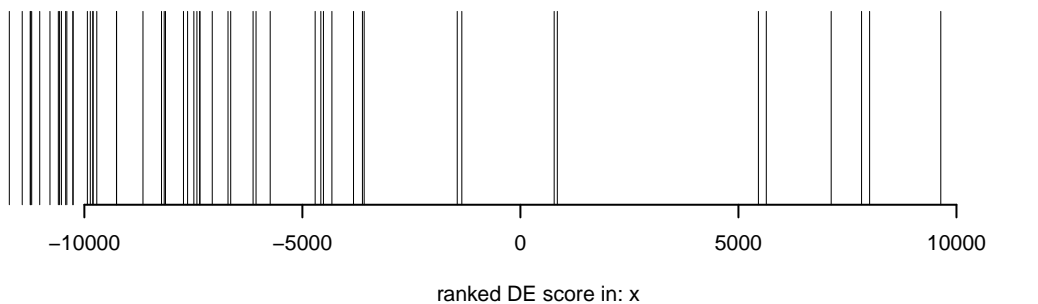
beeswarm plot



histogram

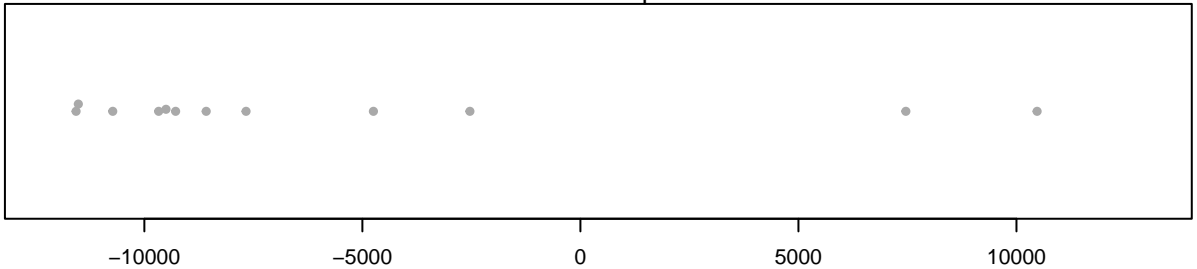


rugplot



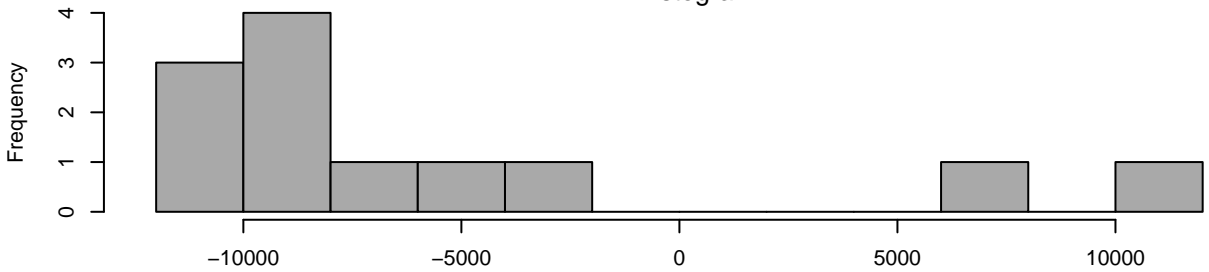
# Nucleotide biosynthesis

beeswarm plot



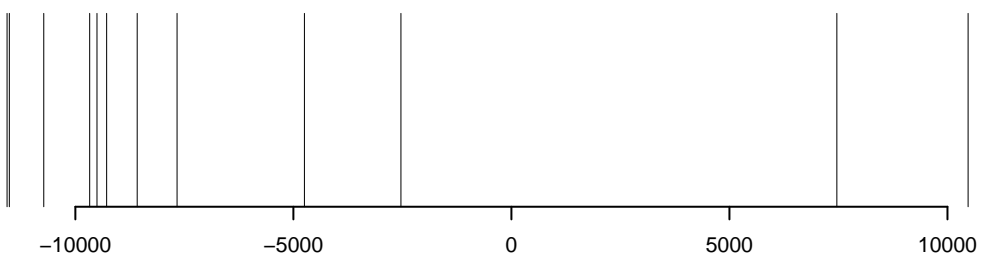
ranked DE score in: x

histogram



ranked DE score in: x

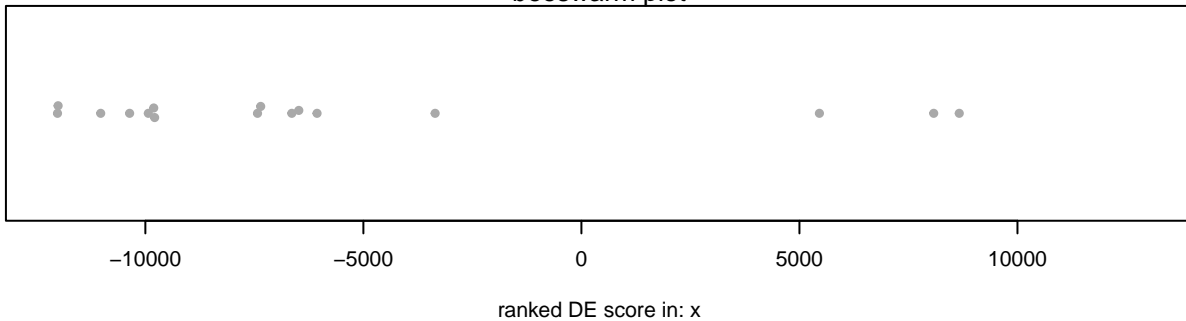
rugplot



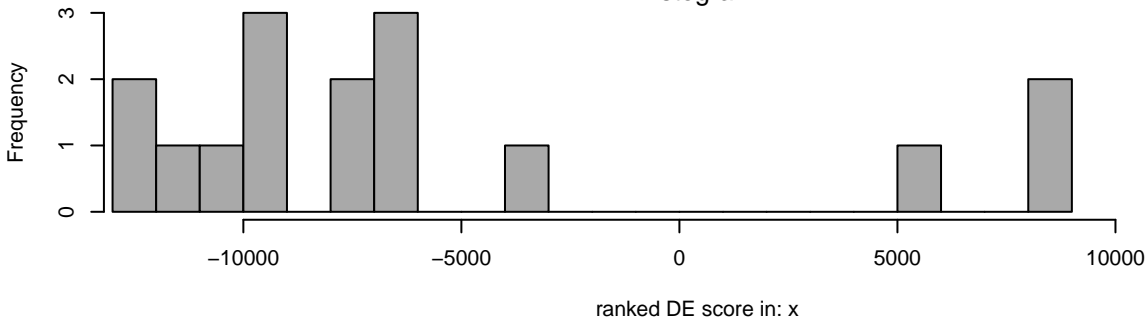
ranked DE score in: x

# Spry regulation of FGF signaling

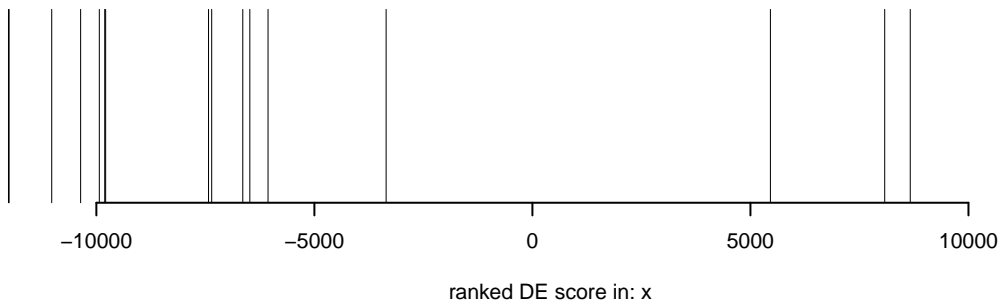
beeswarm plot



histogram

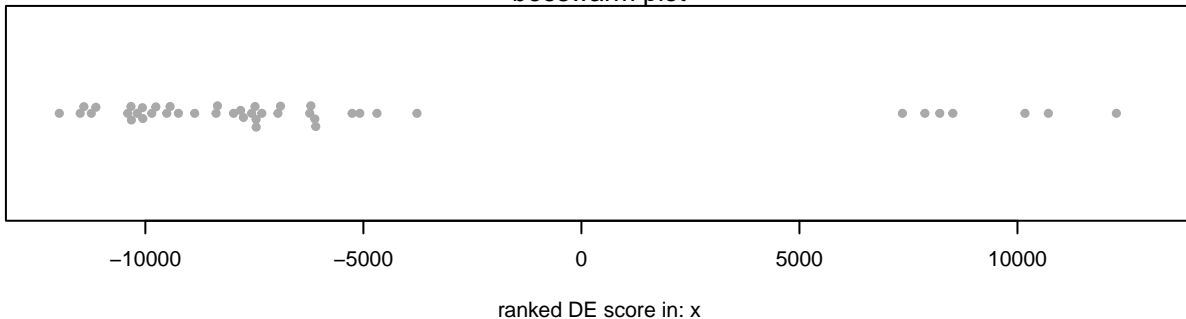


rugplot

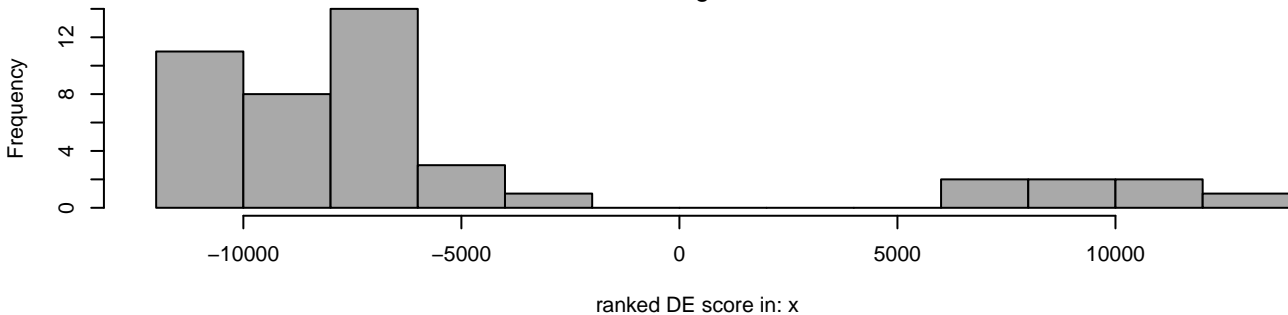


# Formation of HIV elongation complex in the absence of HIV Tat

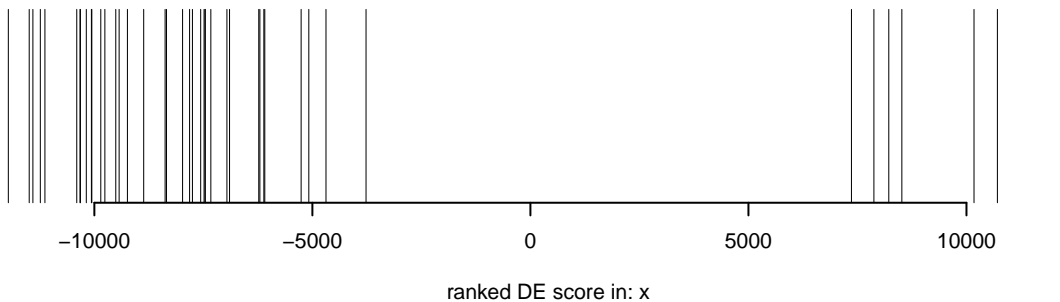
beeswarm plot



histogram

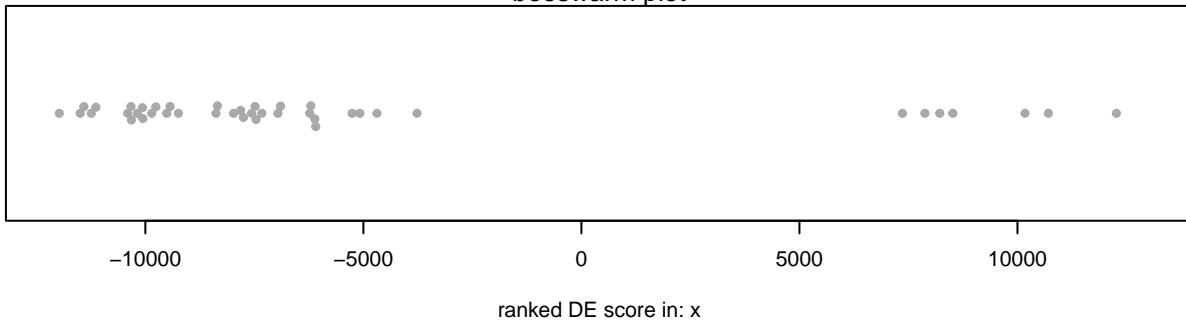


rugplot

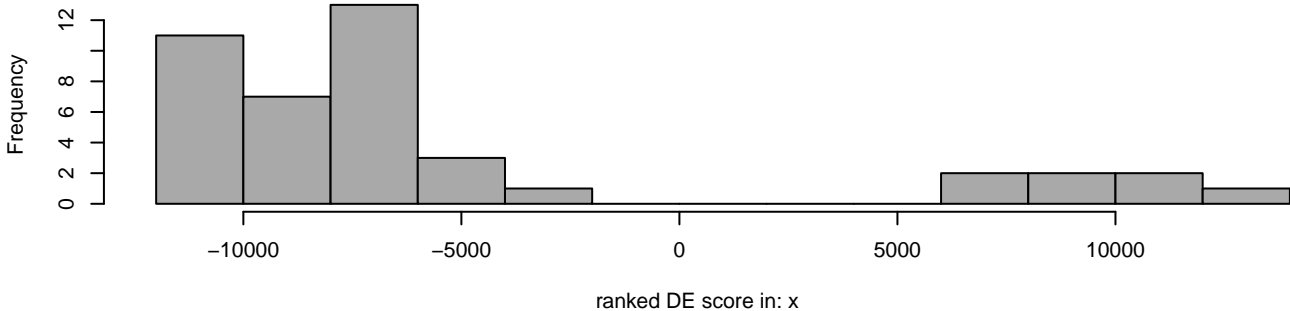


# Formation of HIV-1 elongation complex containing HIV-1 Tat

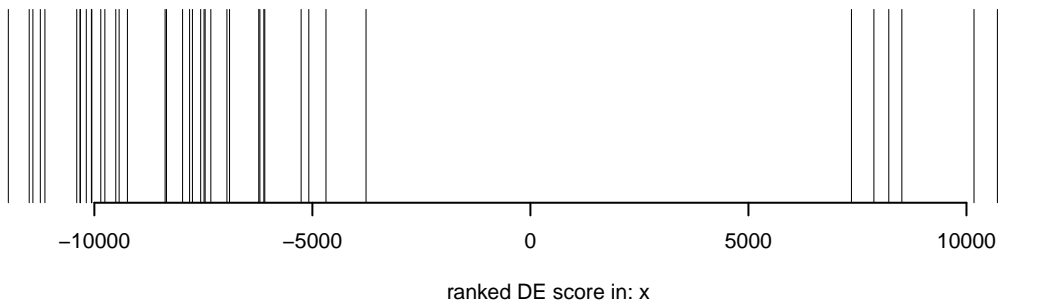
beeswarm plot



histogram

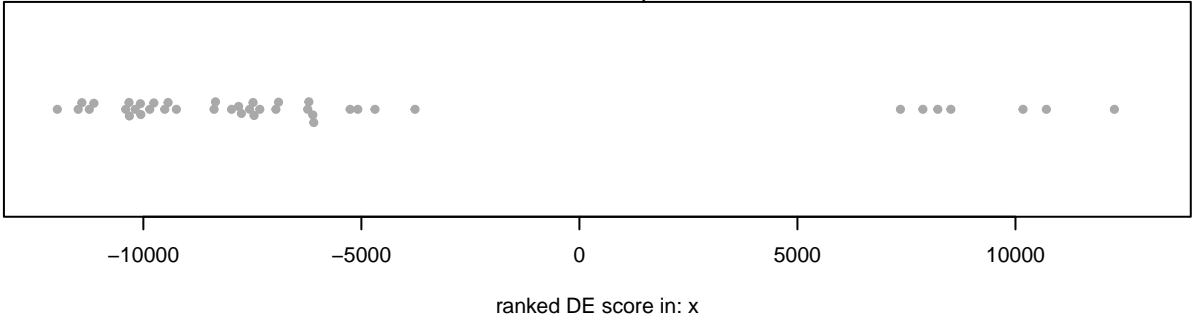


rugplot

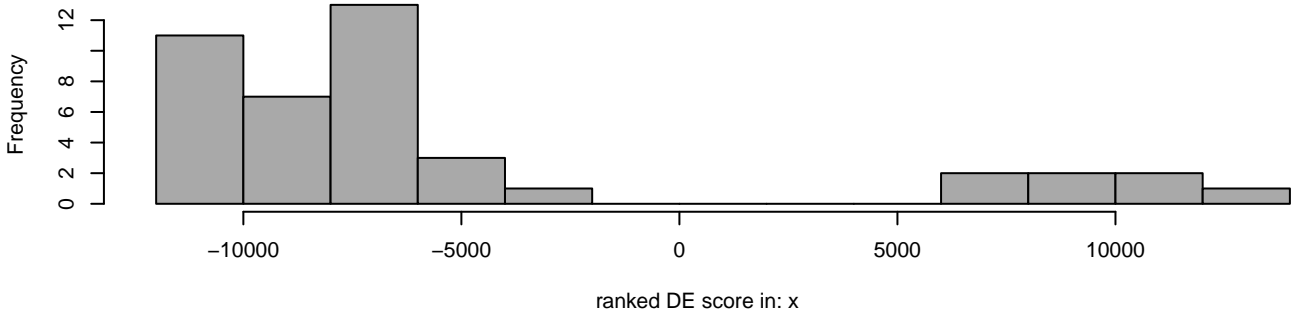


# HIV Transcription Elongation

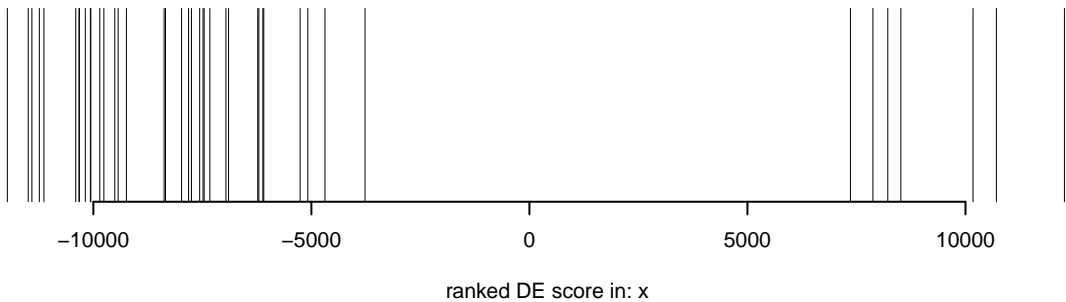
beeswarm plot



histogram



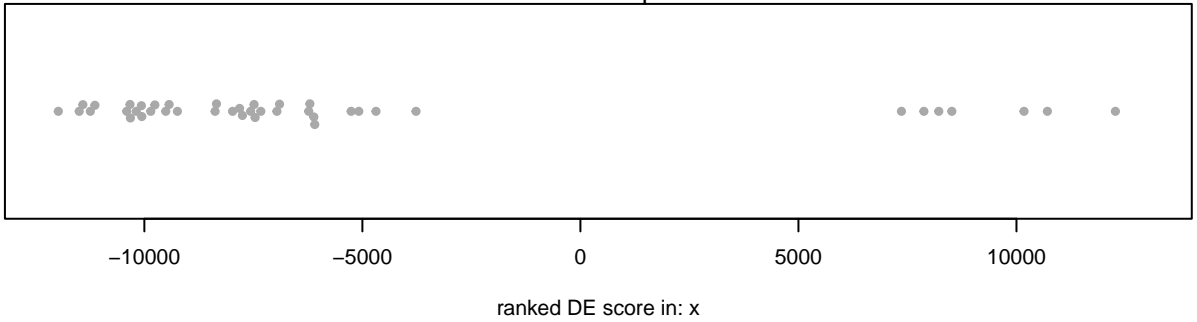
rugplot



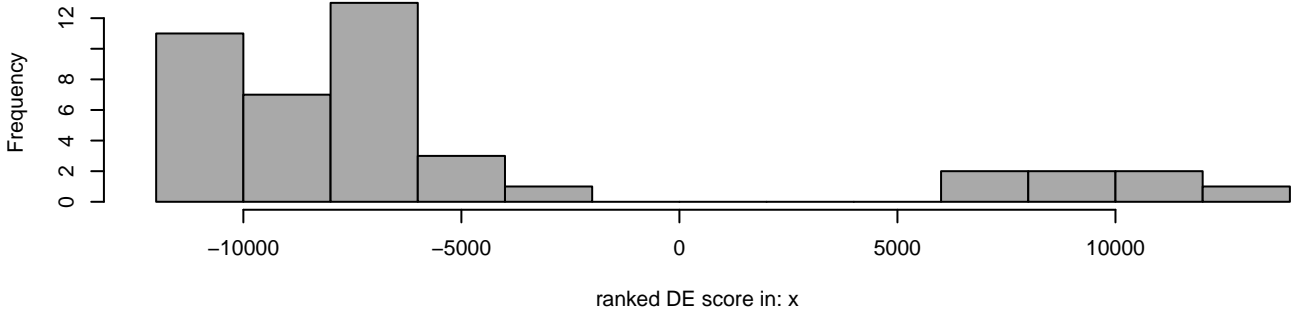


# Tat-mediated elongation of the HIV-1 transcript

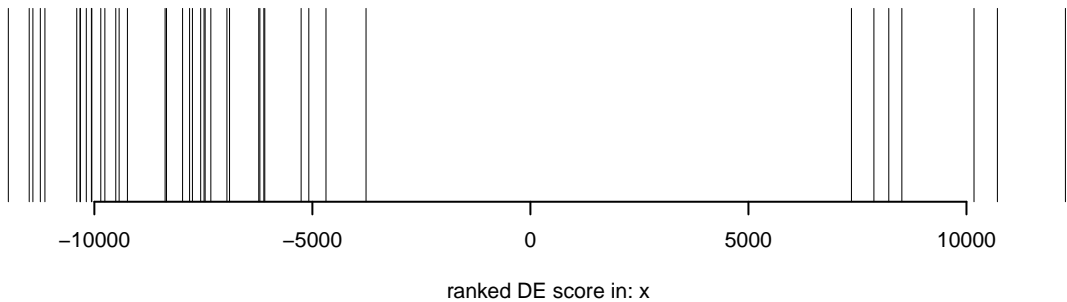
beeswarm plot



histogram

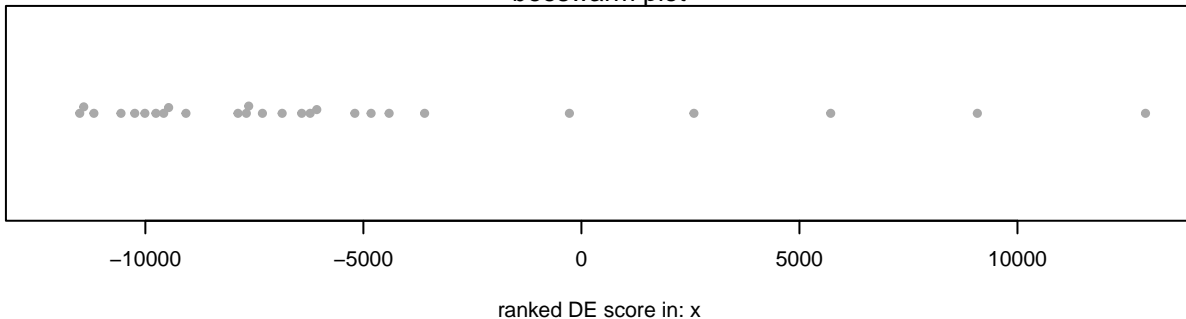


rugplot

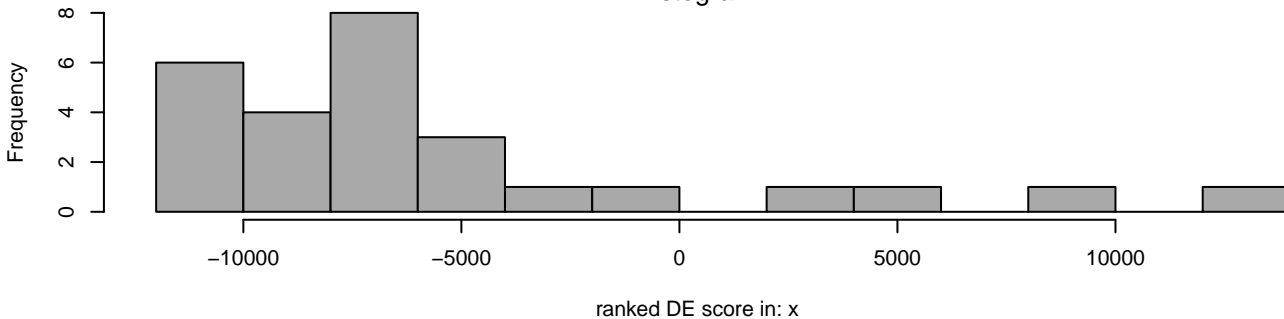


# ATF4 activates genes in response to endoplasmic reticulum stress

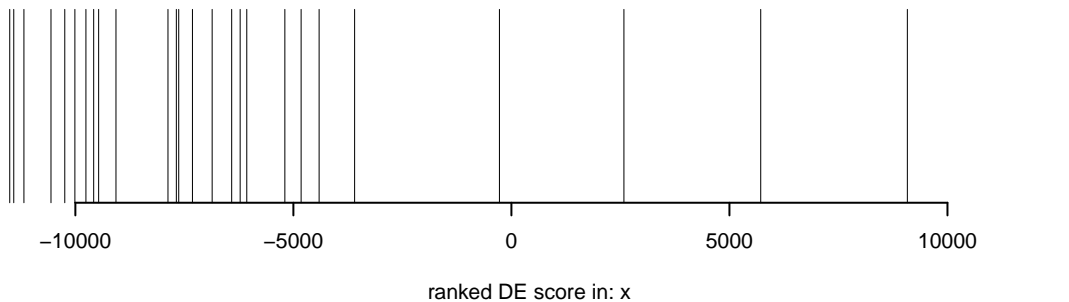
beeswarm plot



histogram

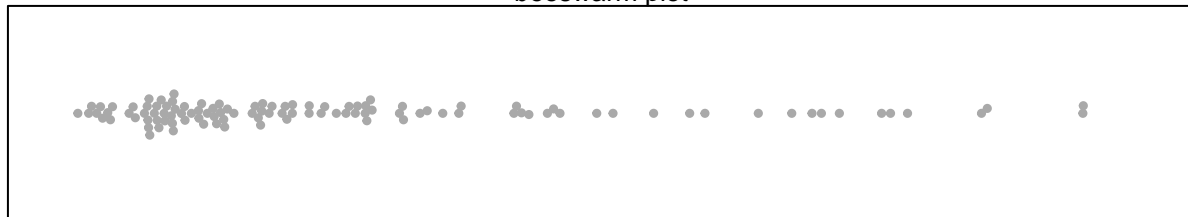


rugplot



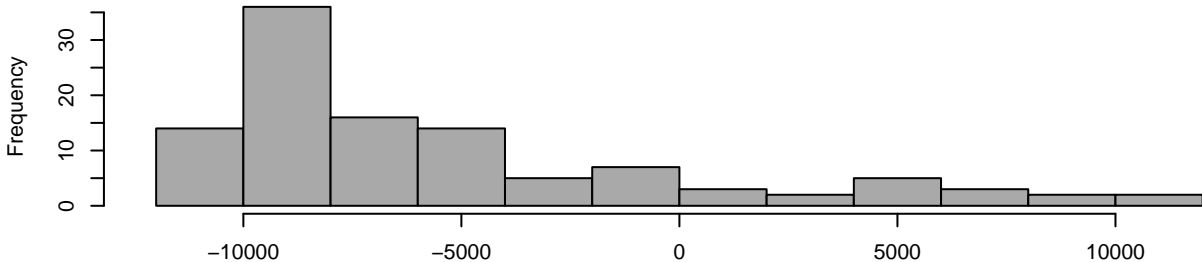
# L13a-mediated translational silencing of Ceruloplasmin expression

beeswarm plot



ranked DE score in: x

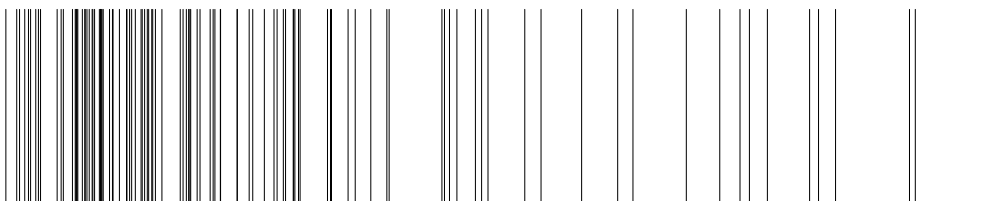
histogram



Frequency

ranked DE score in: x

rugplot



-10000

-5000

0

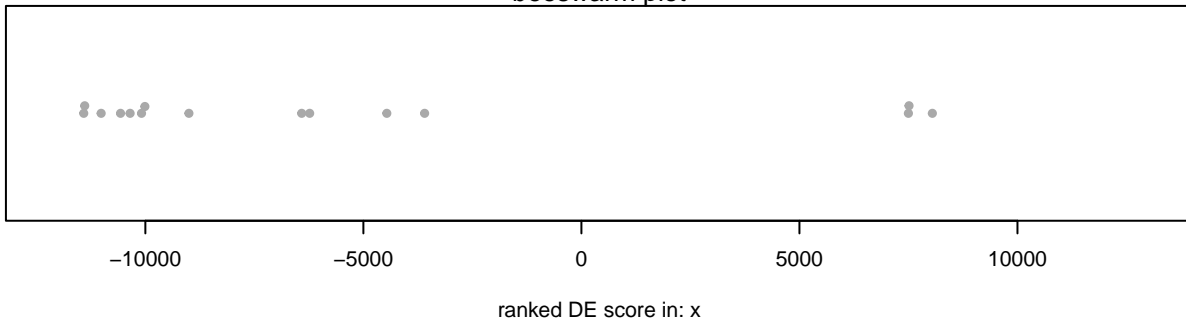
5000

10000

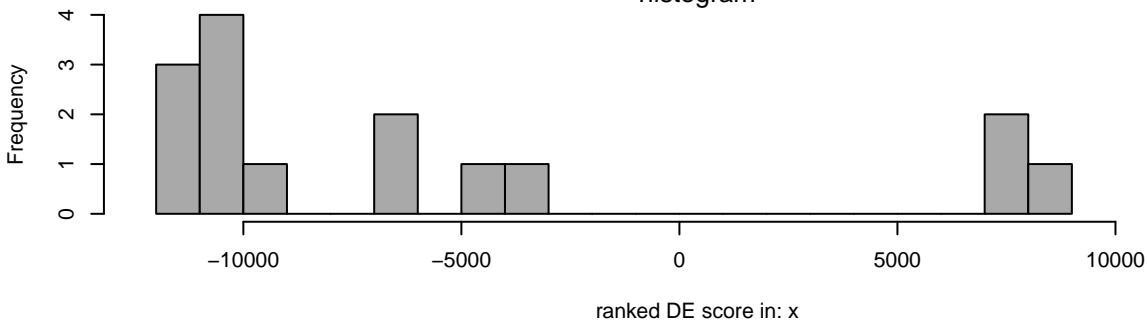
ranked DE score in: x

# FOXO-mediated transcription of cell death genes

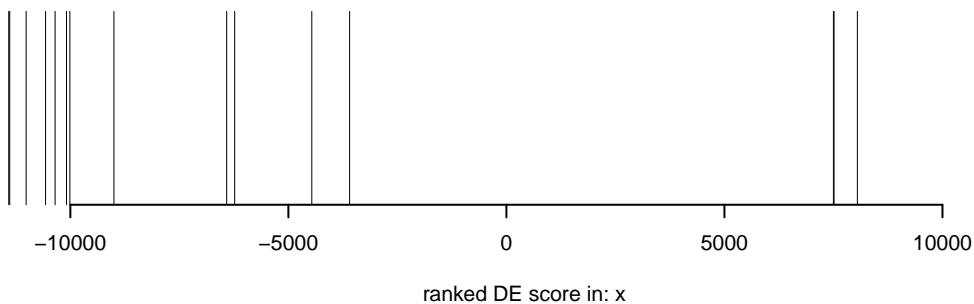
beeswarm plot



histogram

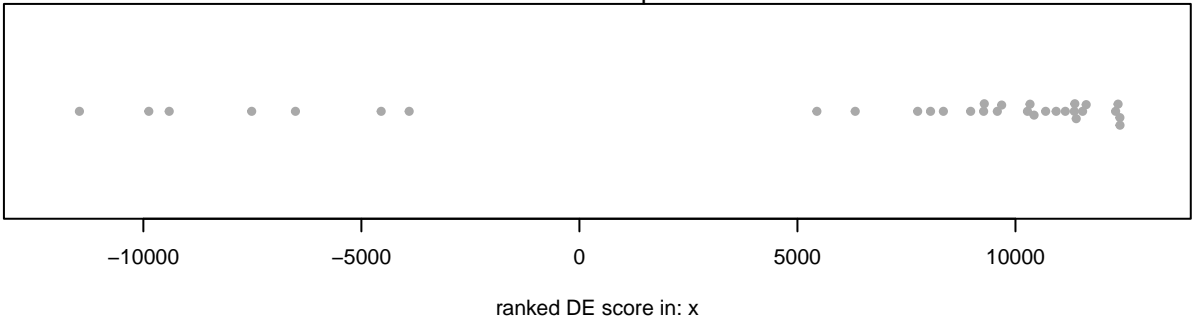


rugplot

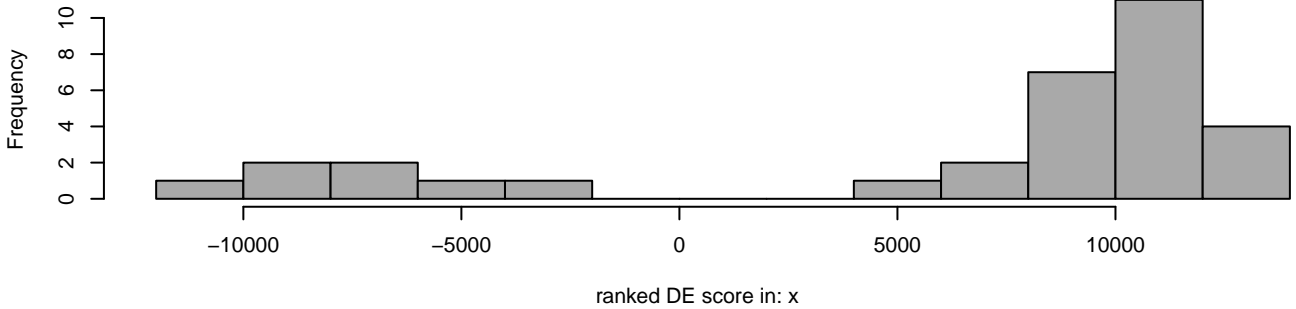


# DNA strand elongation

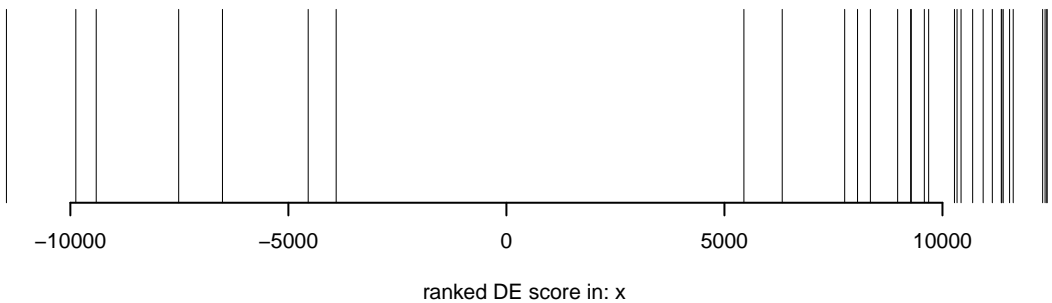
beeswarm plot



histogram

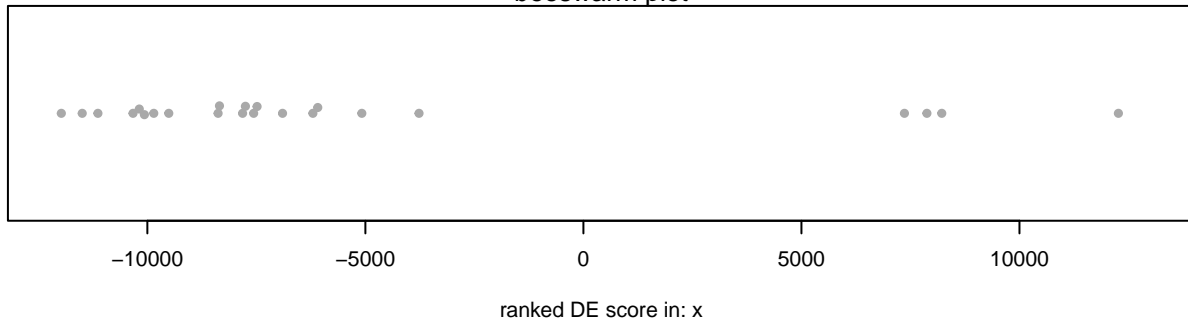


rugplot

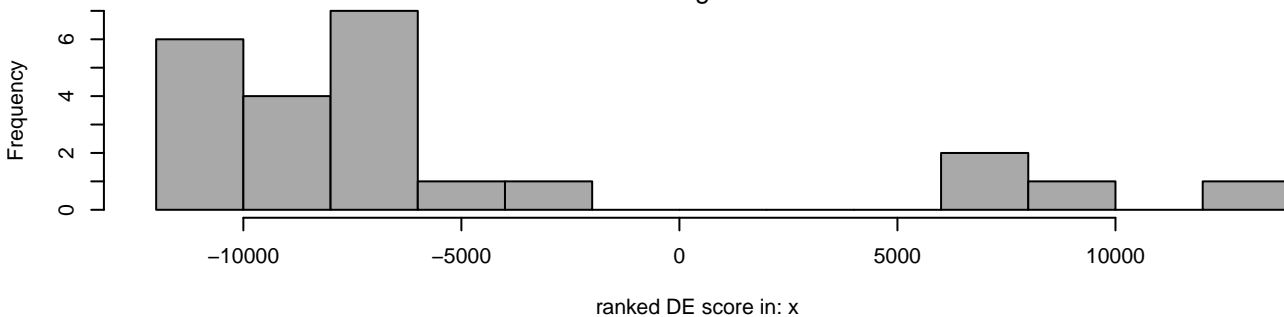


# Abortive elongation of HIV-1 transcript in the absence of Tat

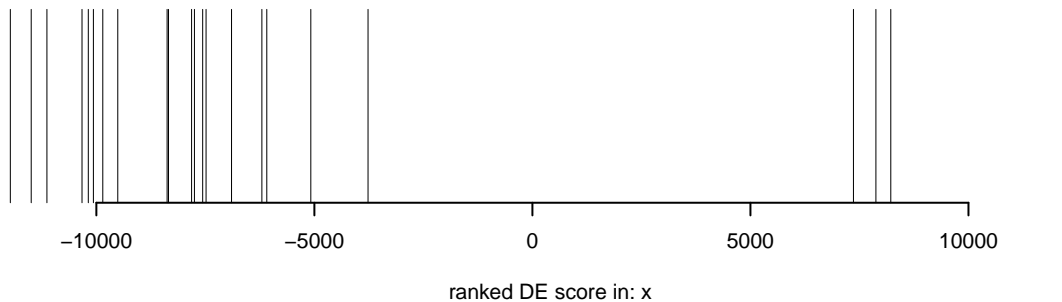
beeswarm plot



histogram

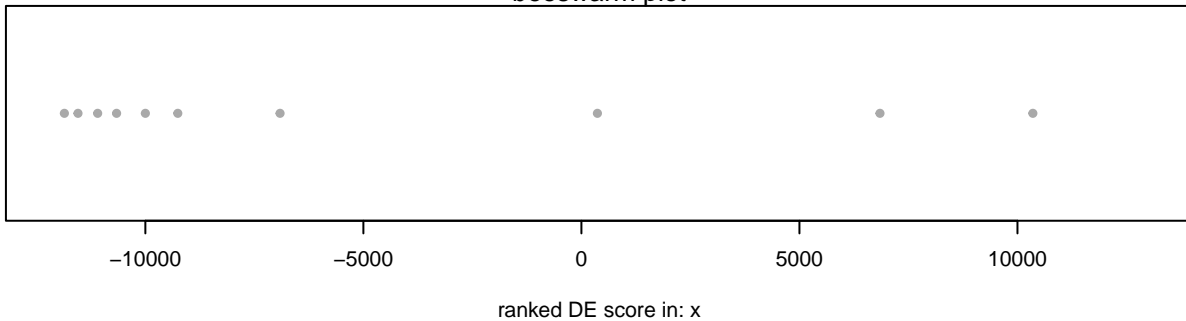


rugplot

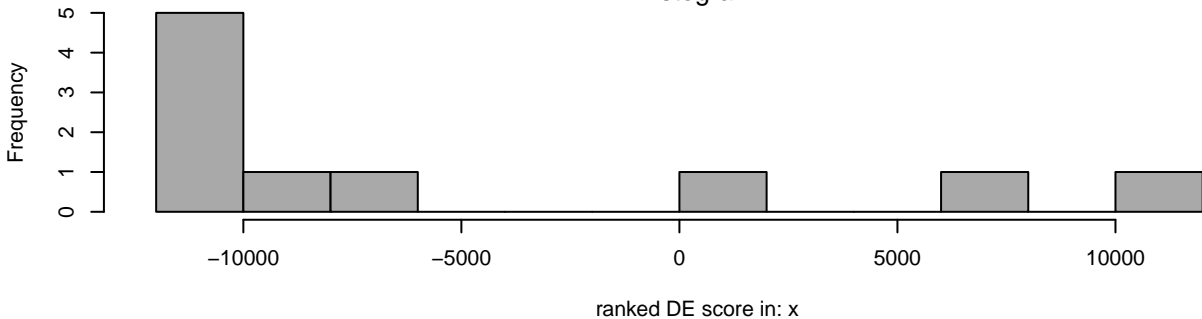


# Folding of actin by CCT/TriC

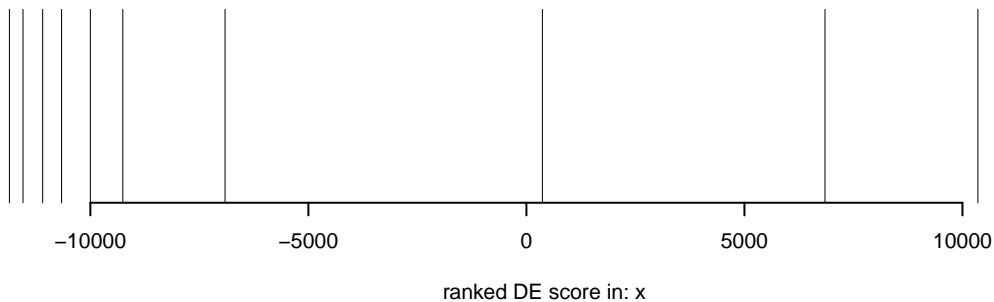
beeswarm plot



histogram

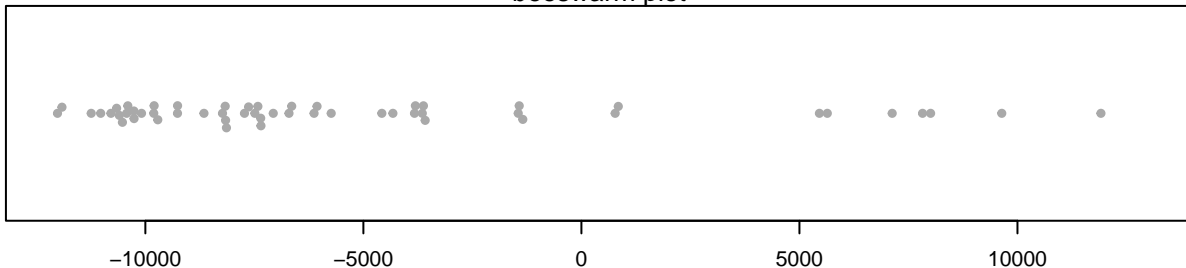


rugplot



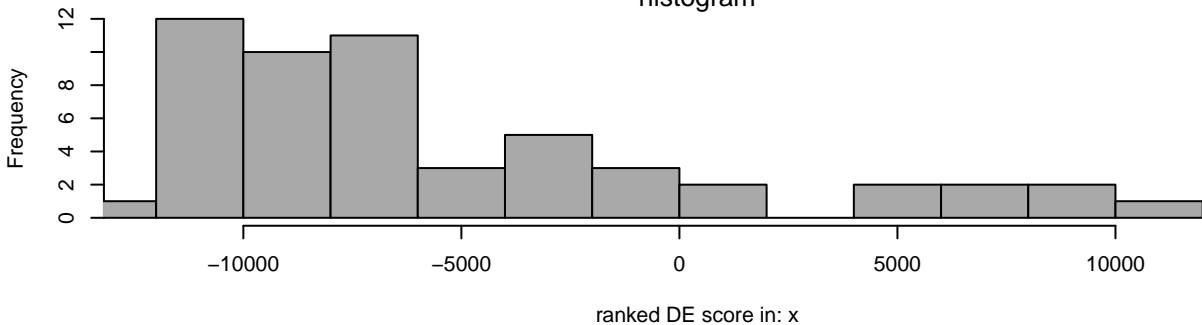
# Regulation of RUNX3 expression and activity

beeswarm plot



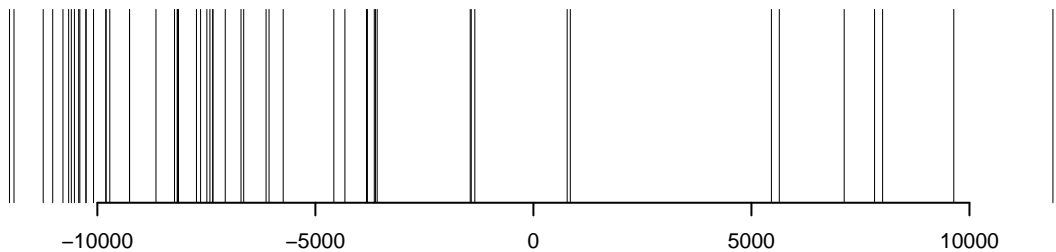
ranked DE score in: x

histogram



ranked DE score in: x

rugplot

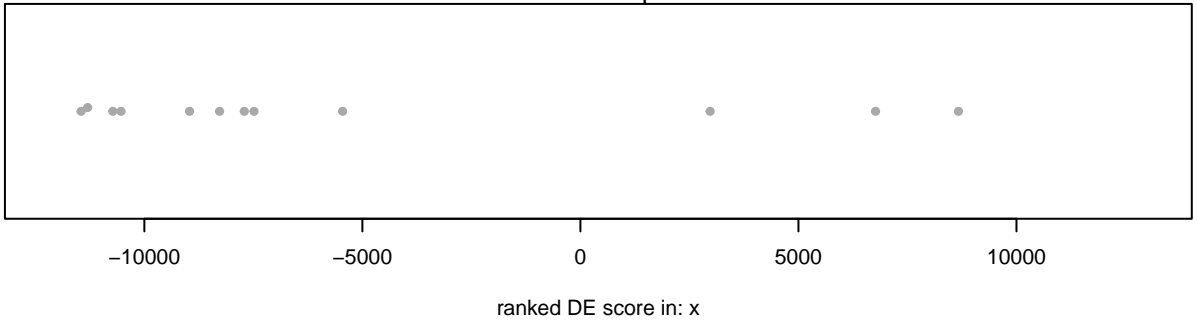


ranked DE score in: x

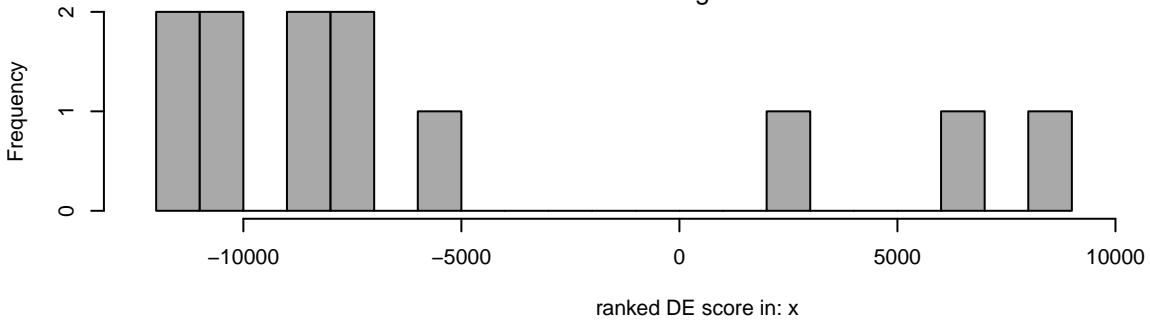


# Regulation of PTEN mRNA translation

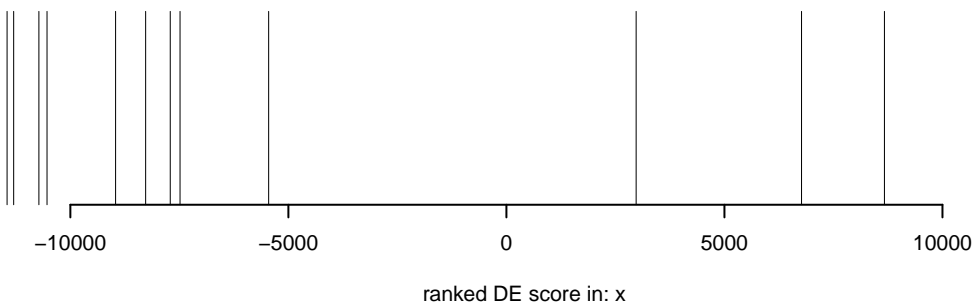
beeswarm plot



histogram

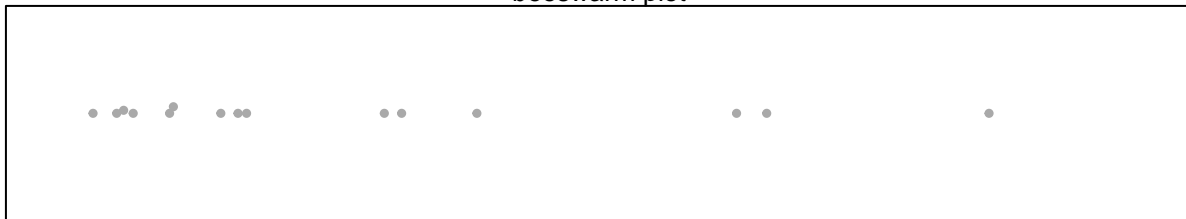


rugplot



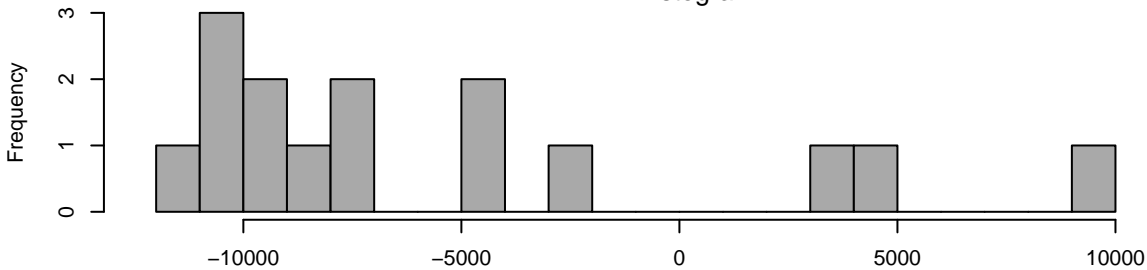
# mRNA decay by 5' to 3' exoribonuclease

beeswarm plot



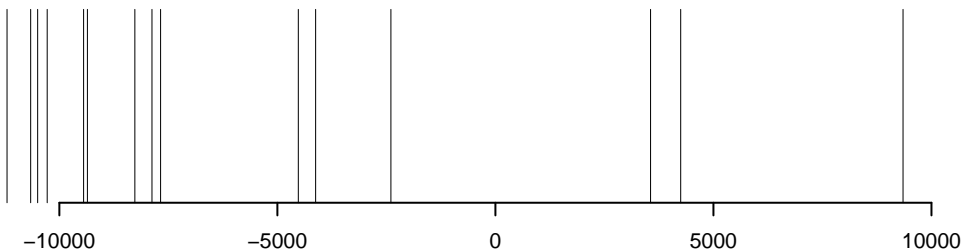
ranked DE score in: x

histogram



ranked DE score in: x

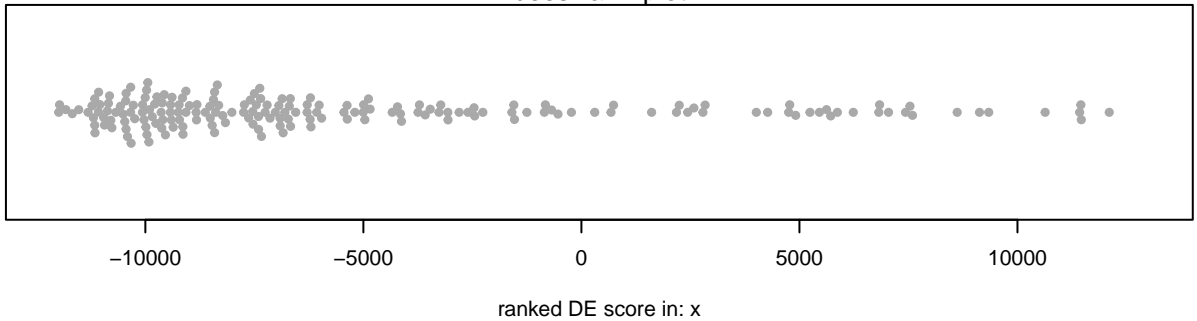
rugplot



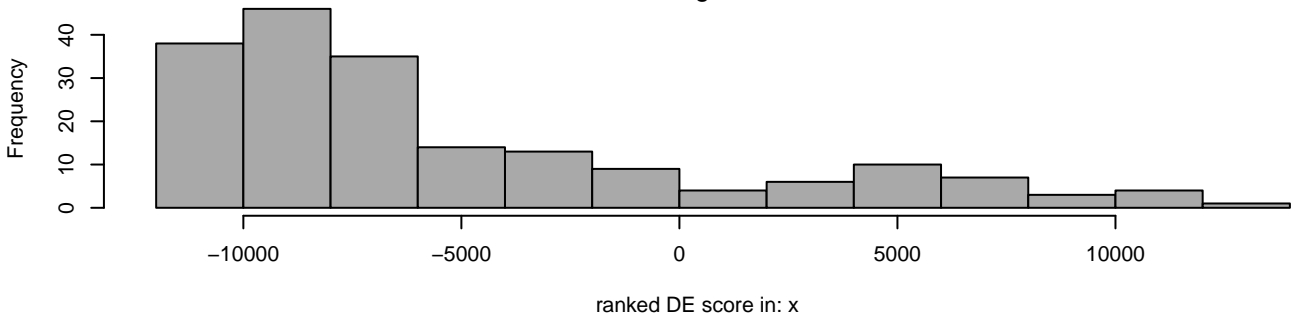
ranked DE score in: x

# rRNA processing in the nucleus and cytosol

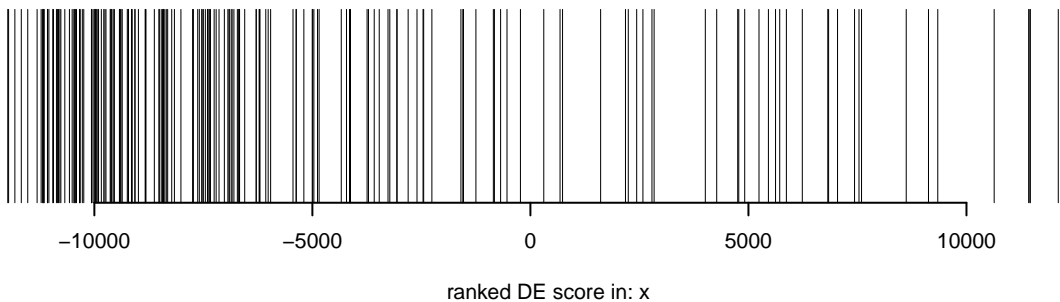
beeswarm plot



histogram

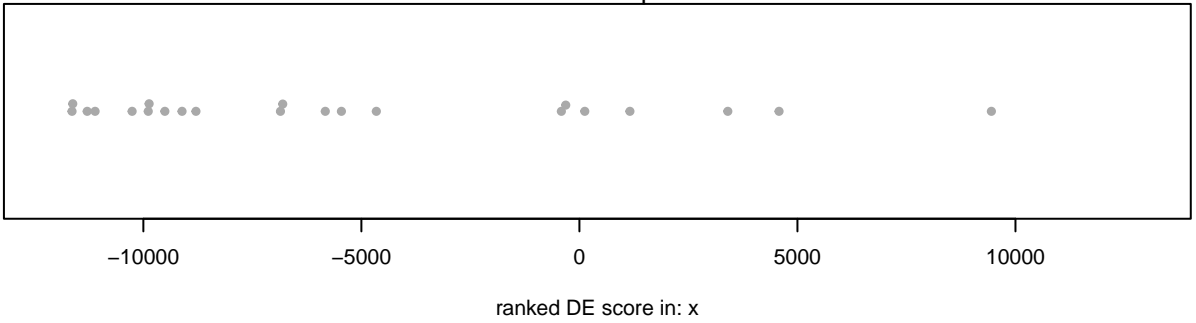


rugplot

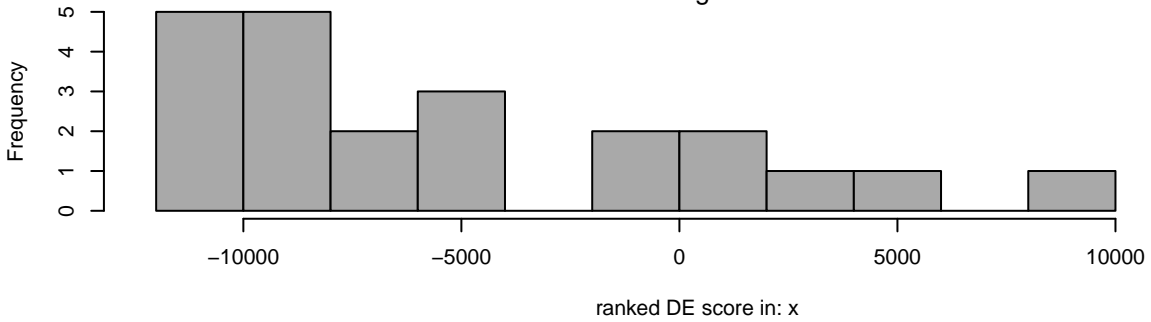


# Citric acid cycle (TCA cycle)

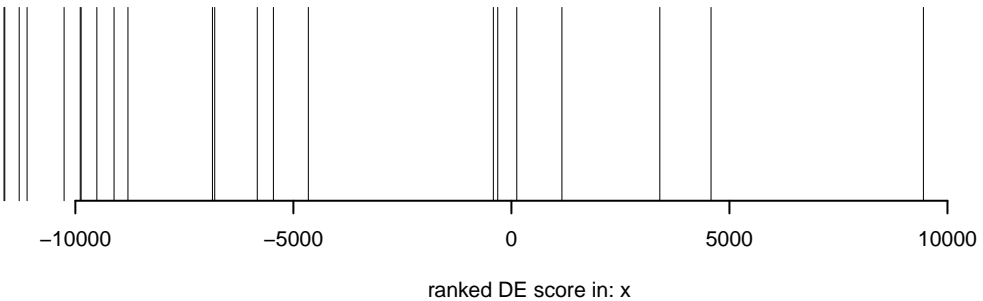
beeswarm plot



histogram

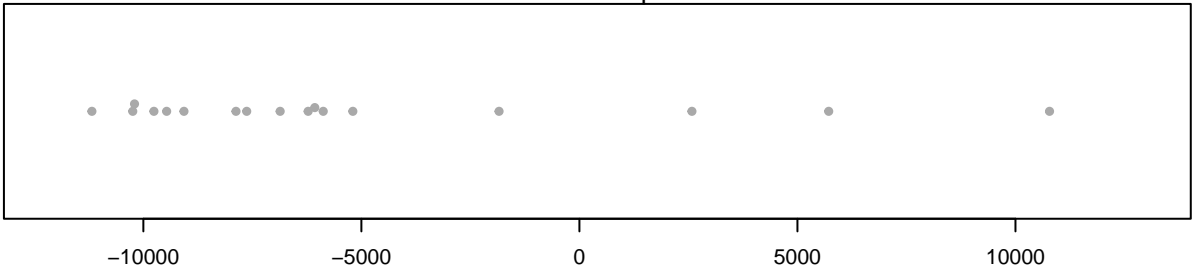


rugplot



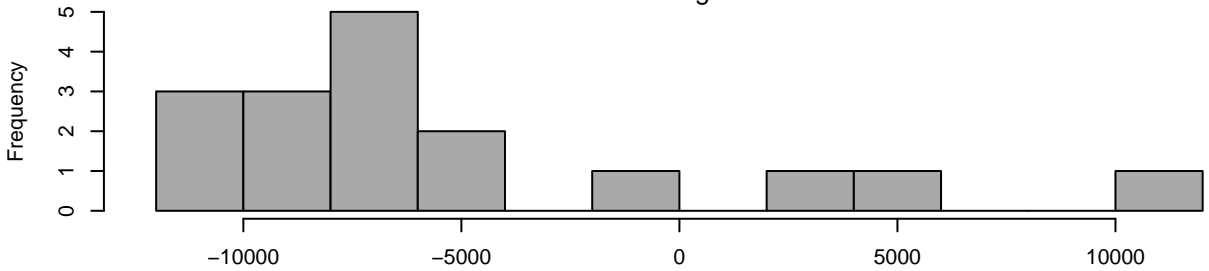
# KSRP (KHSRP) binds and destabilizes mRNA

beeswarm plot



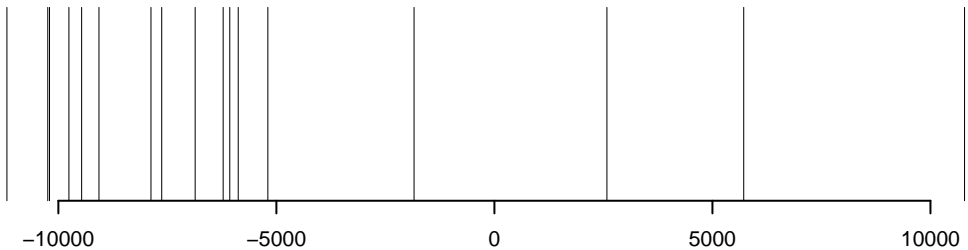
ranked DE score in: x

histogram



ranked DE score in: x

rugplot



ranked DE score in: x