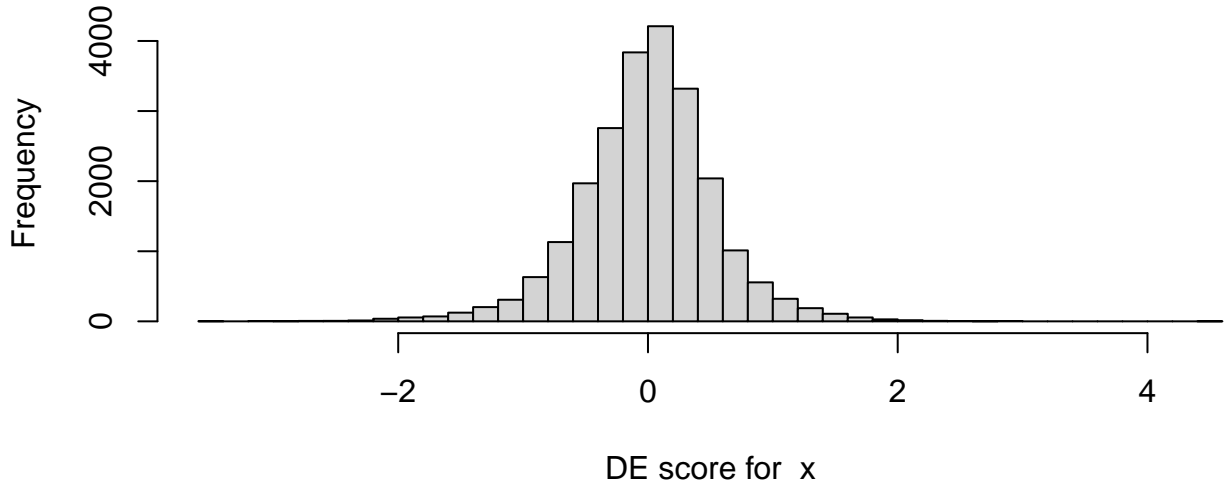
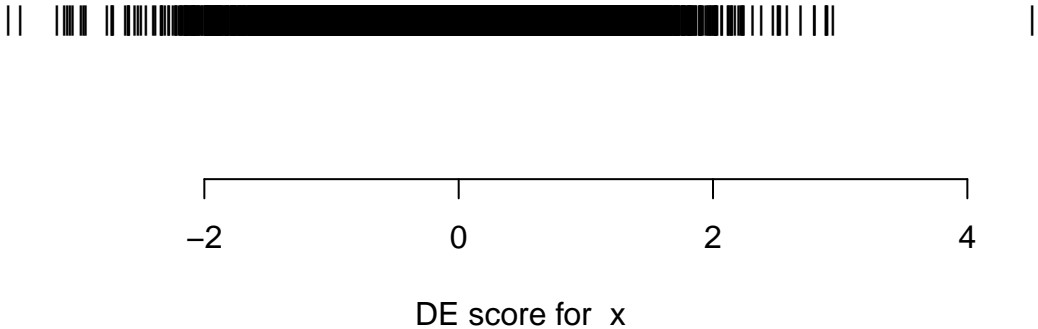


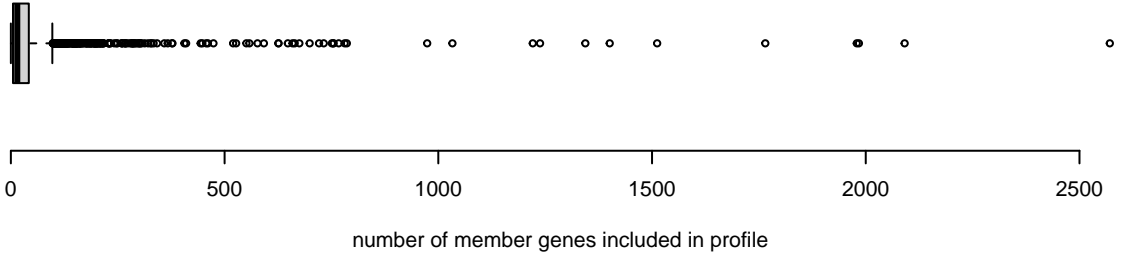
# Distribution of DE scores



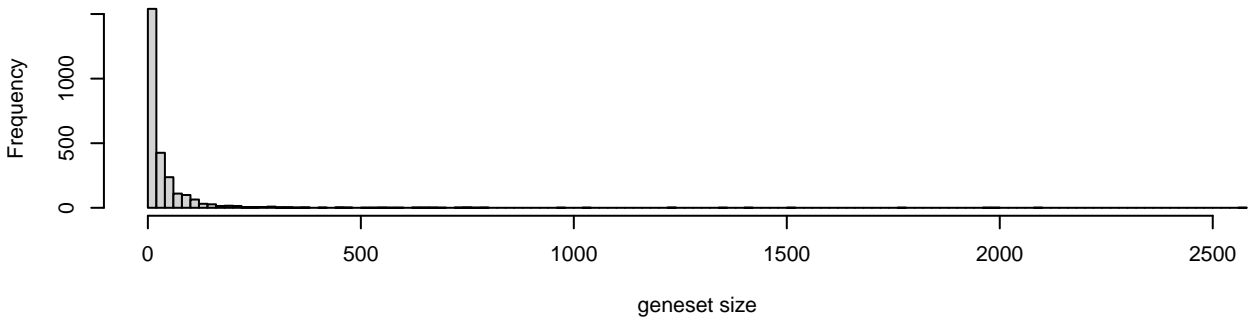
23030 genes in total, 11873 trending up-regulated, 11157 trending down-regulated



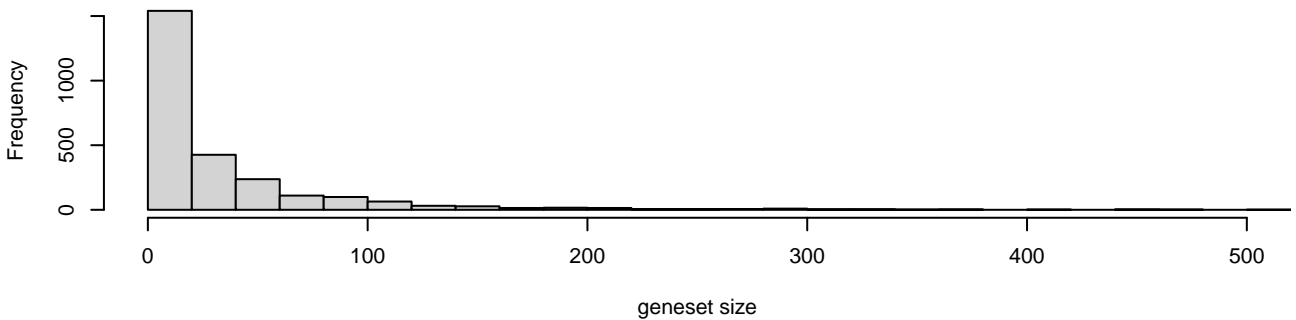
### Gene set size



### Histogram of geneset size

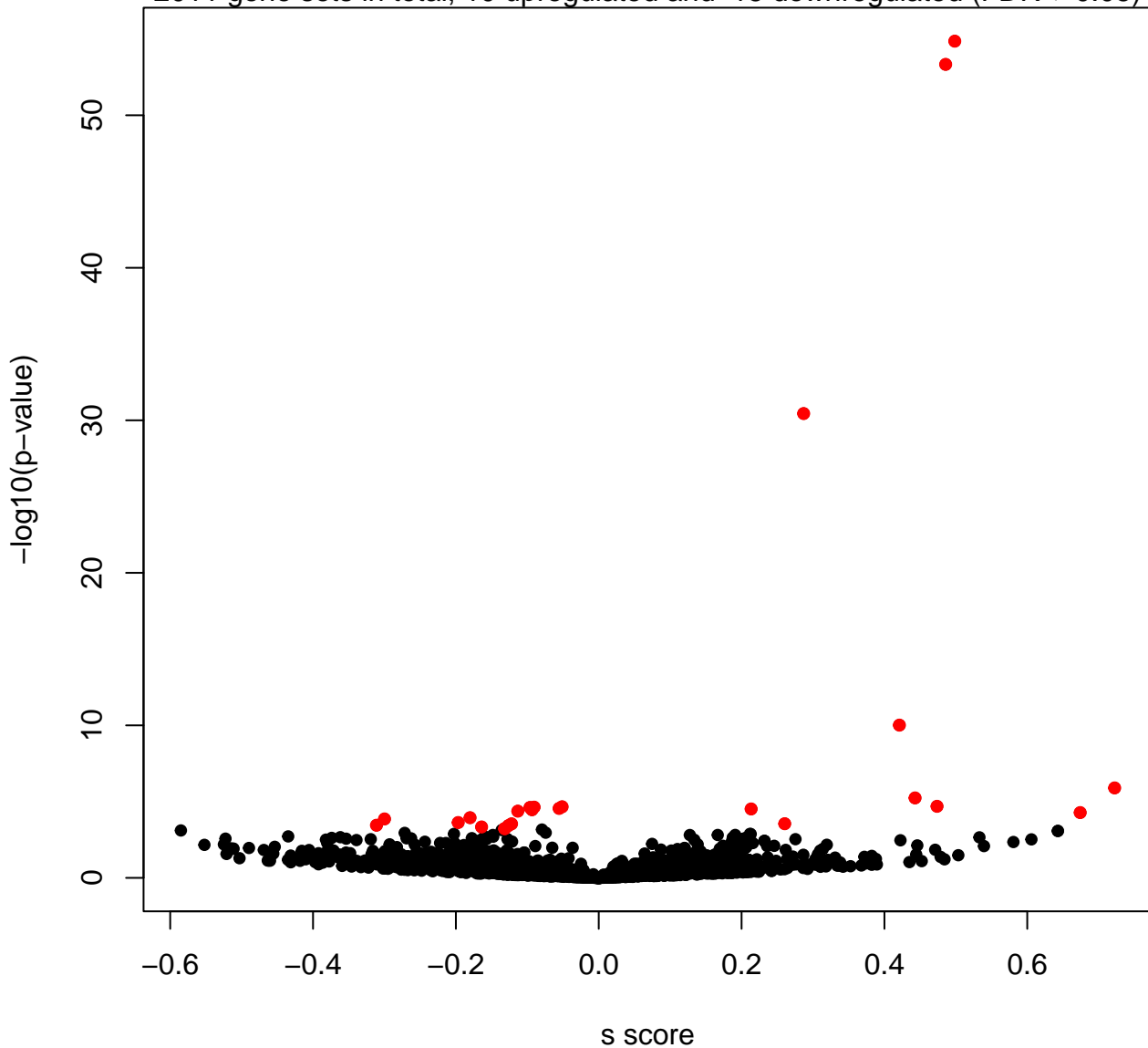


### Trimmed histogram of geneset size



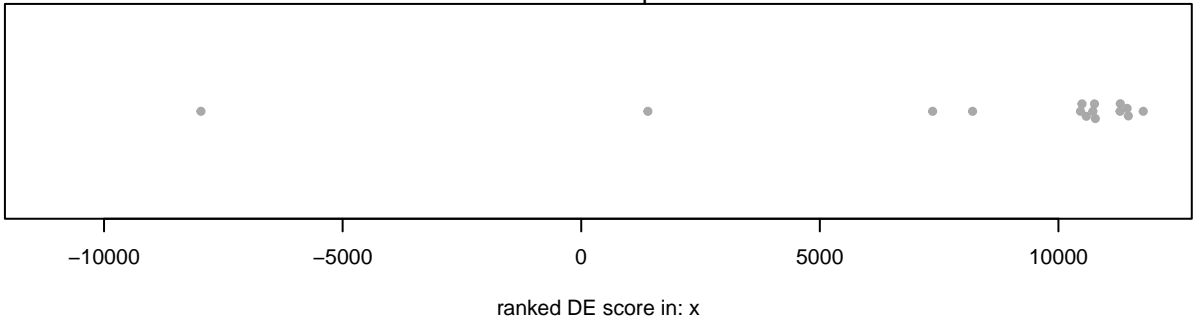
# volcano plot of gene set enrichments

2011 gene sets in total, 10 upregulated and 15 downregulated (FDR $\leq$ 0.05)

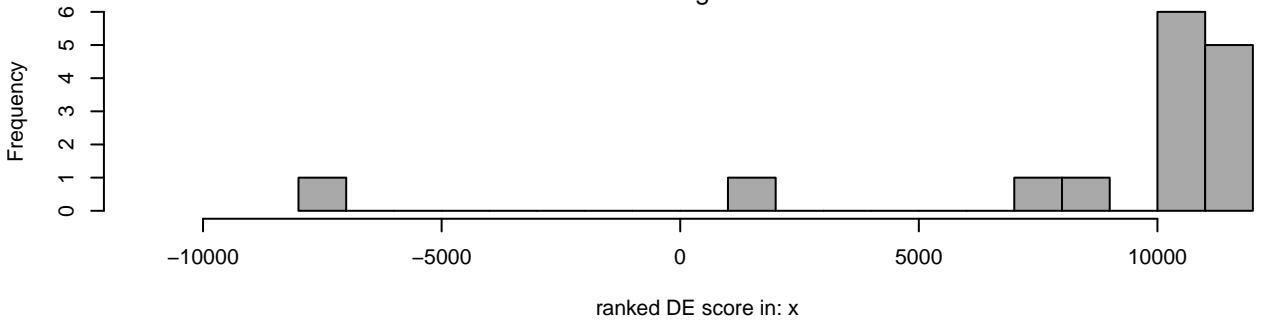


# Fatty acids

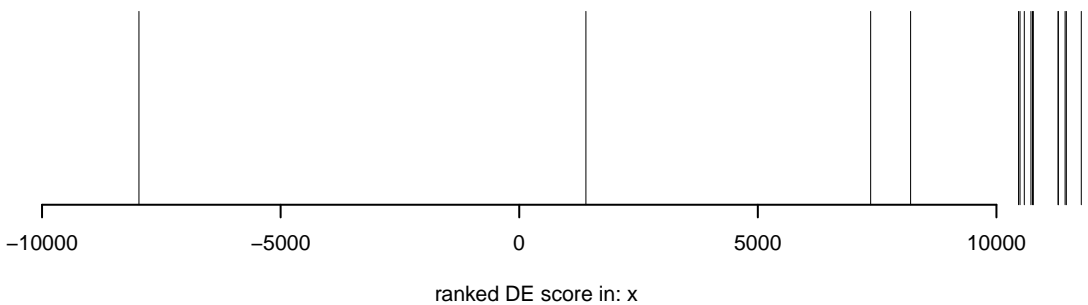
beeswarm plot



histogram

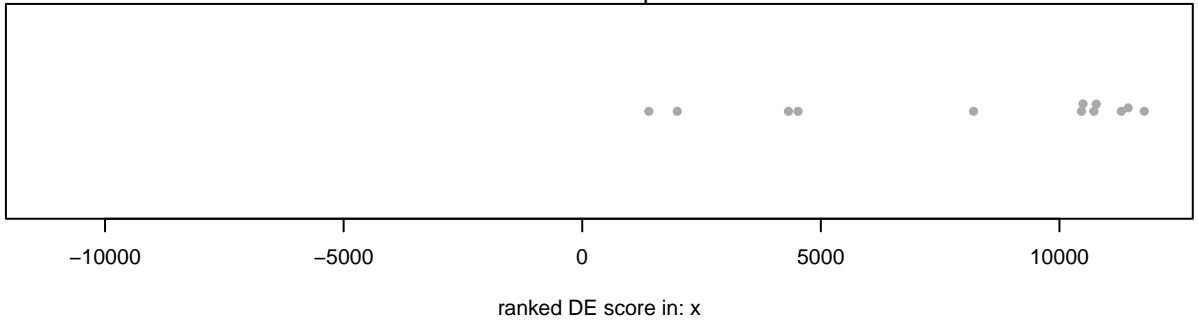


rugplot

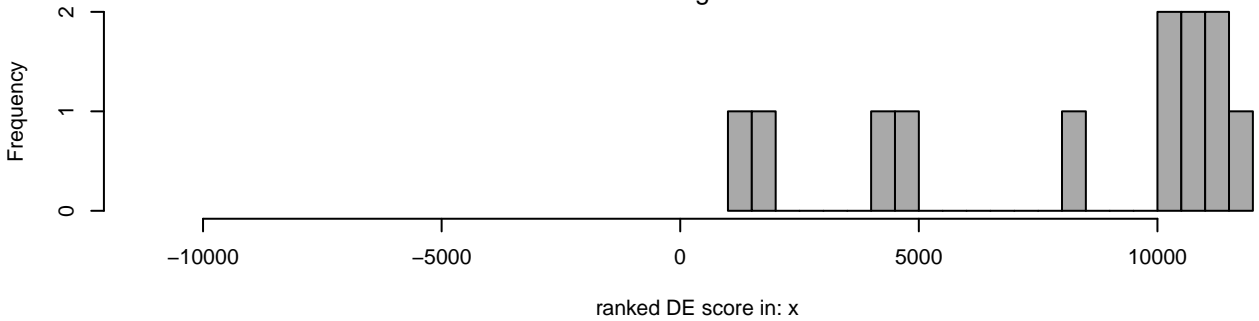


# Eicosanoids

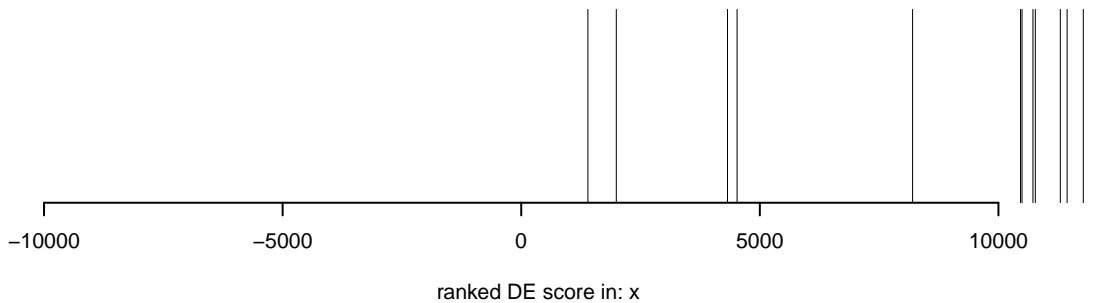
beeswarm plot



histogram

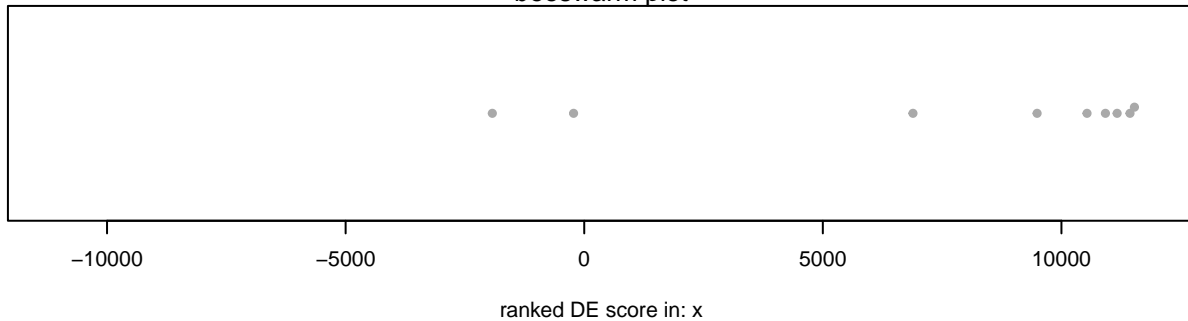


rugplot

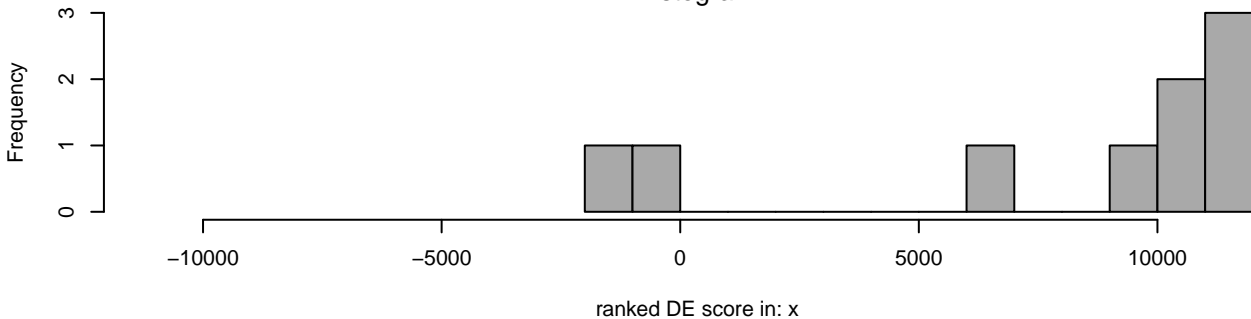


# Amino Acid conjugation

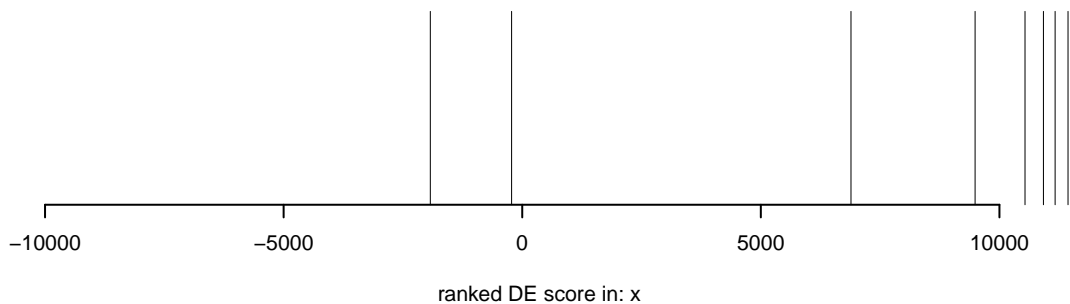
beeswarm plot



histogram

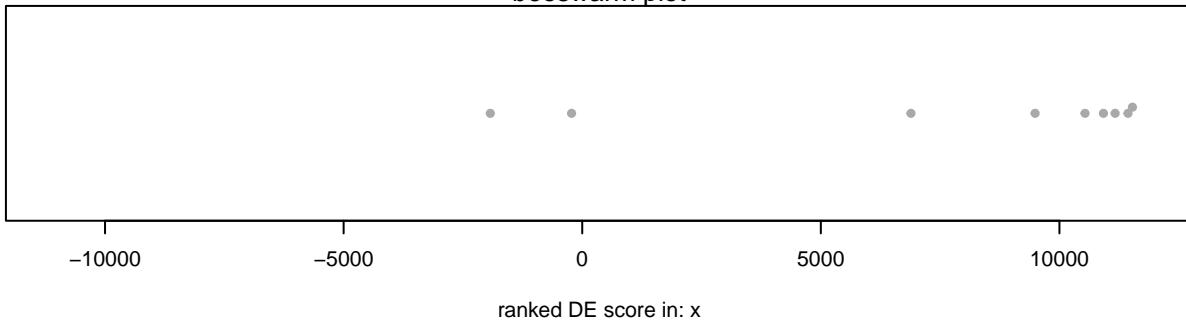


rugplot

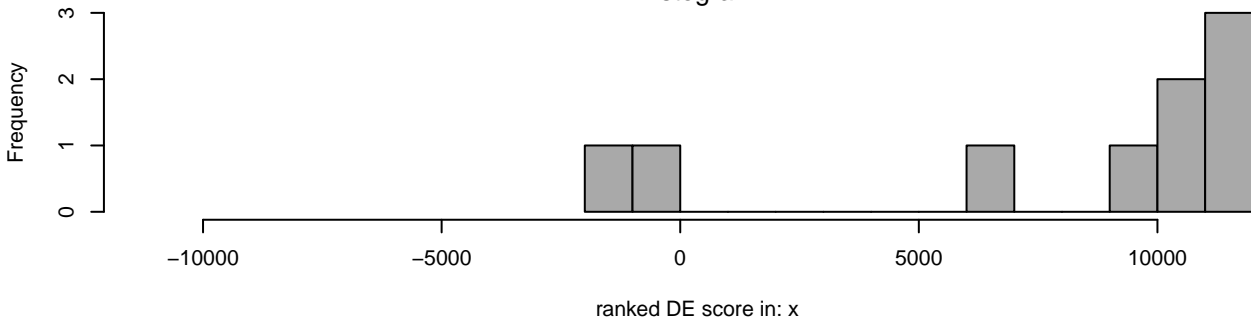


# Conjugation of carboxylic acids

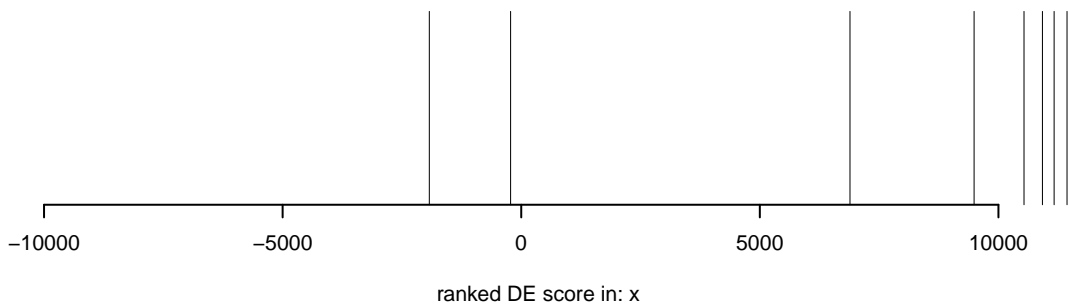
beeswarm plot



histogram

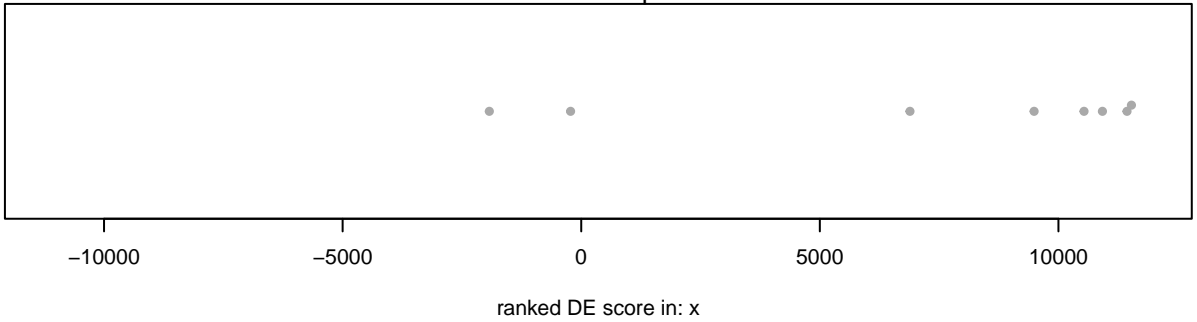


rugplot

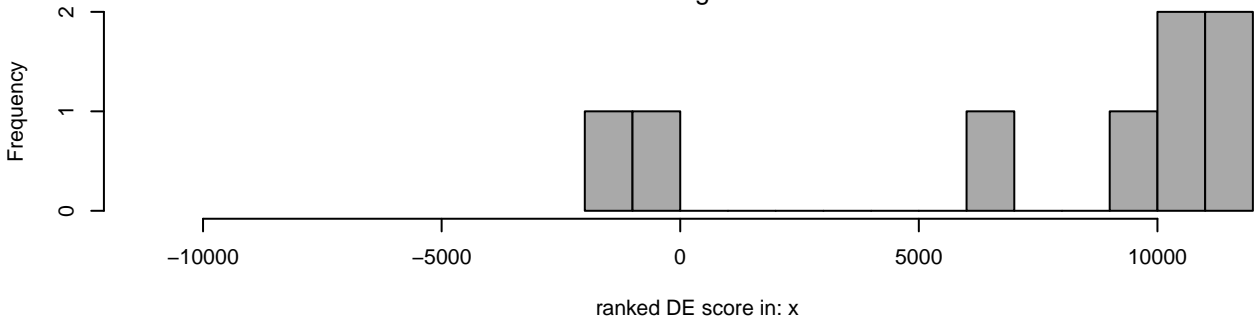


# Conjugation of salicylate with glycine

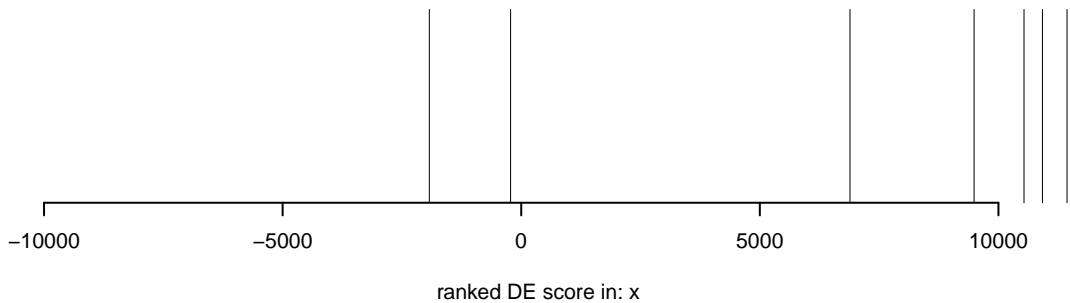
beeswarm plot



histogram



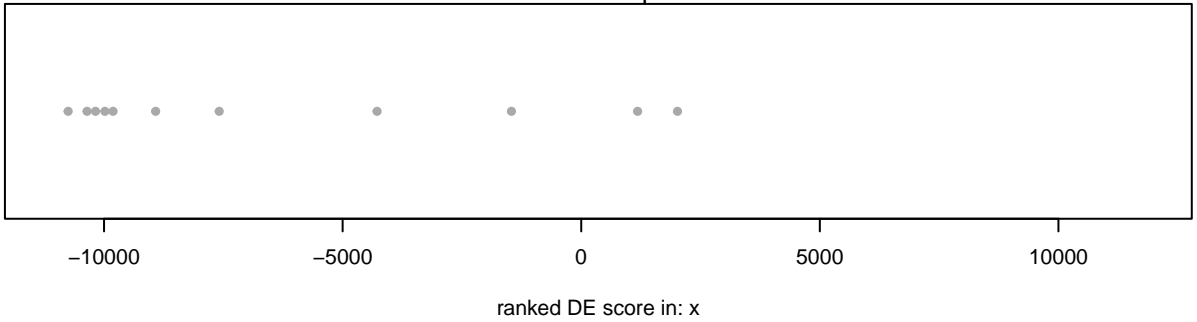
rugplot



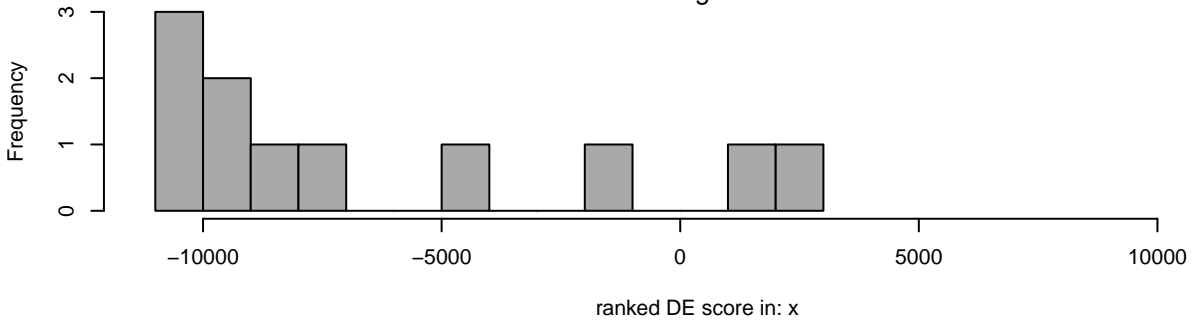


# Type I hemidesmosome assembly

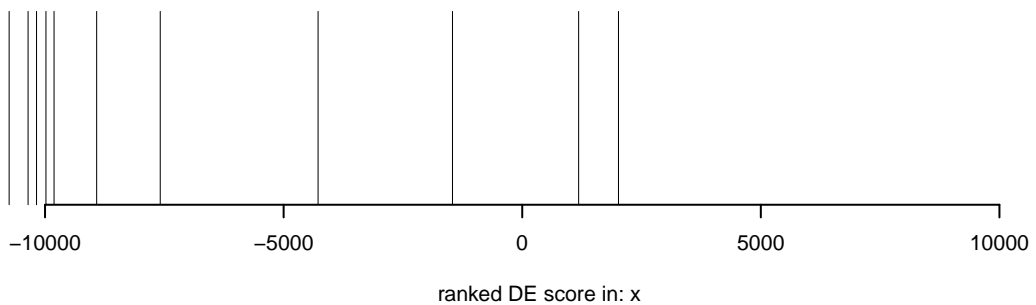
beeswarm plot



histogram

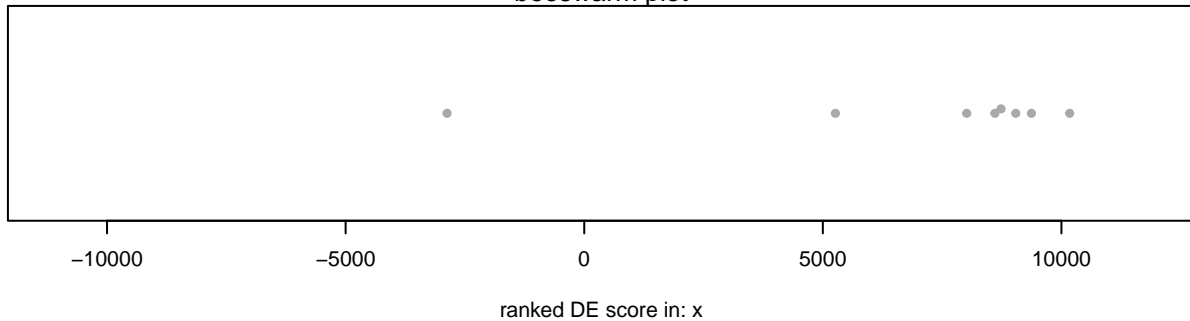


rugplot

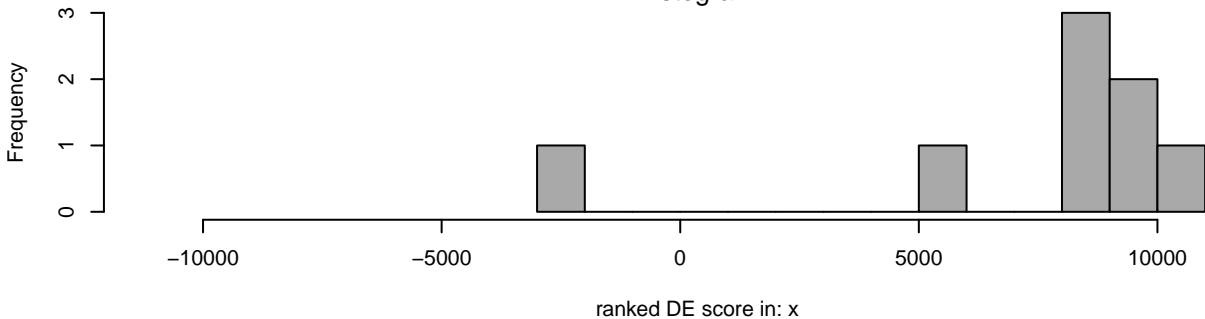


# RUNX1 regulates transcription of genes involved in differentiation of keratinocytes

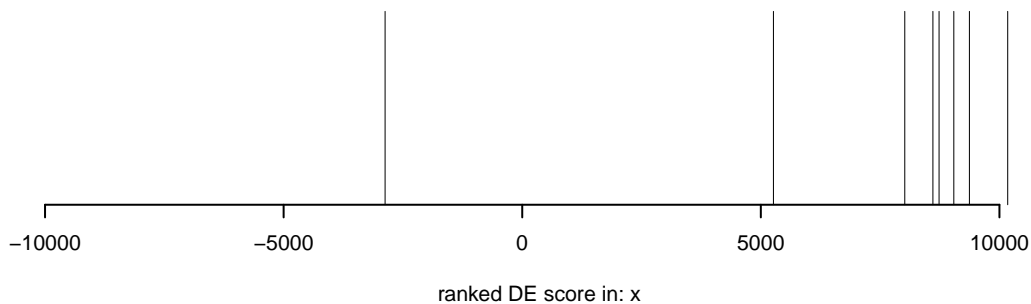
beeswarm plot



histogram

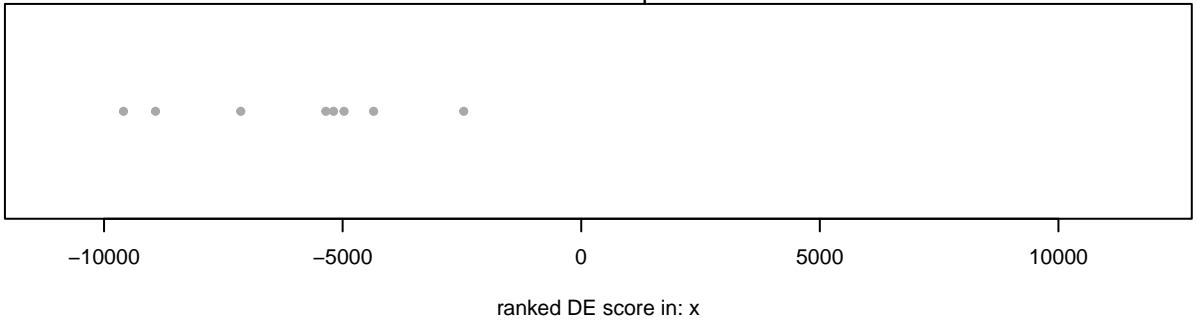


rugplot

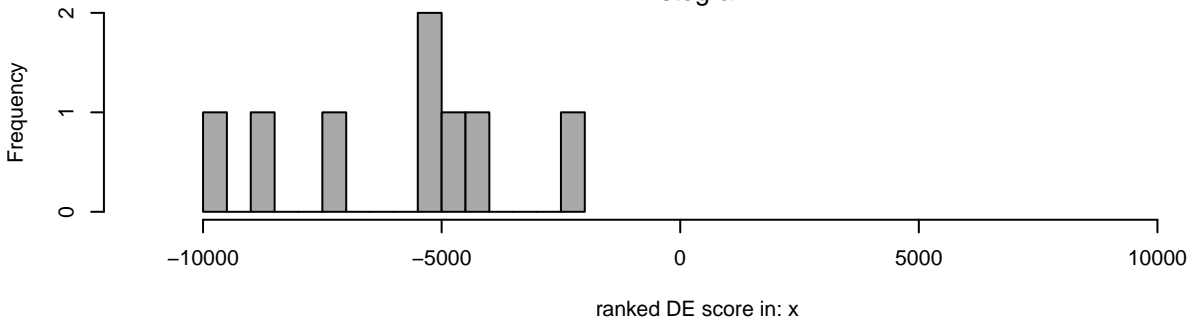


# ChREBP activates metabolic gene expression

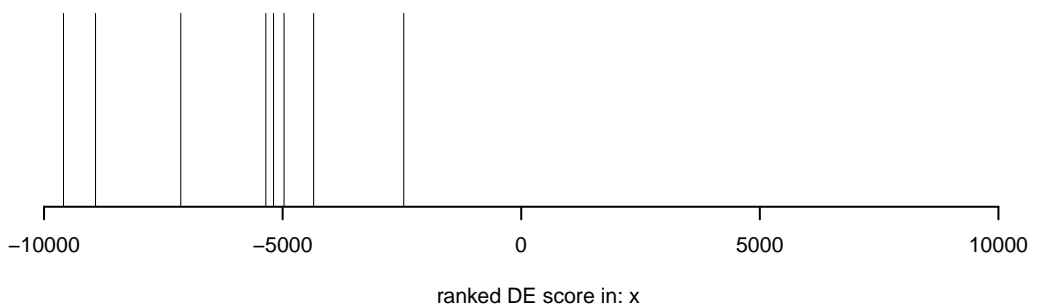
beeswarm plot



histogram

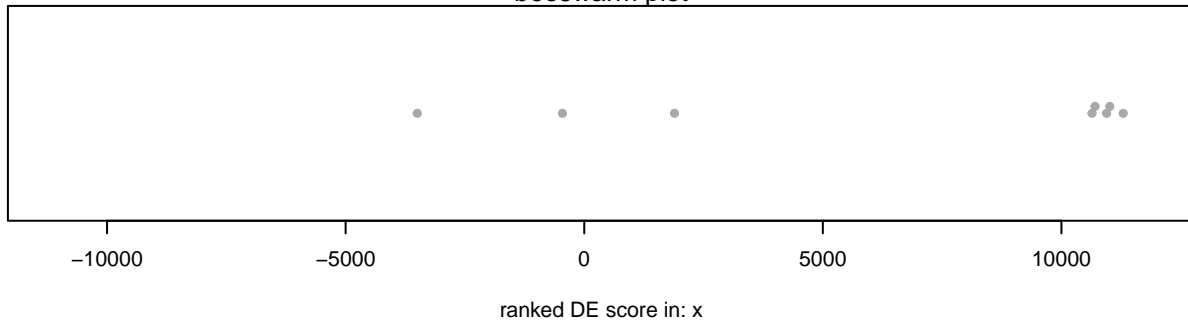


rugplot

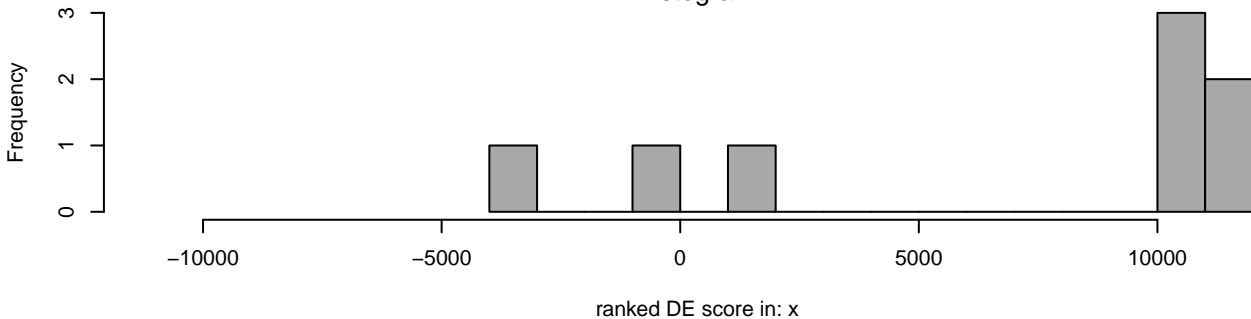


# Formyl peptide receptors bind formyl peptides and many other ligands

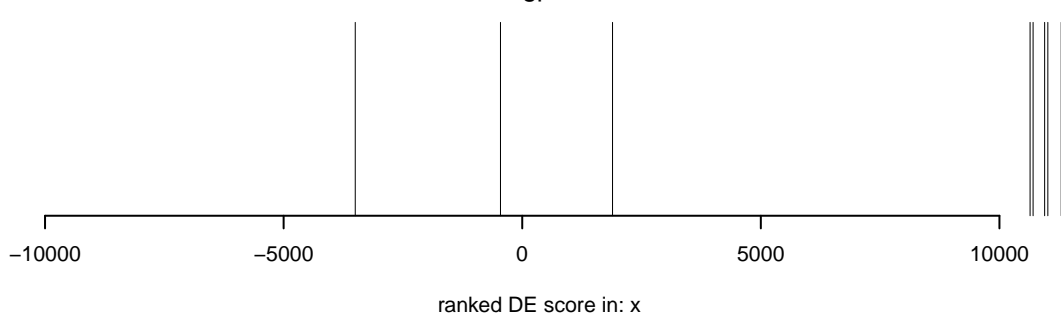
beeswarm plot



histogram

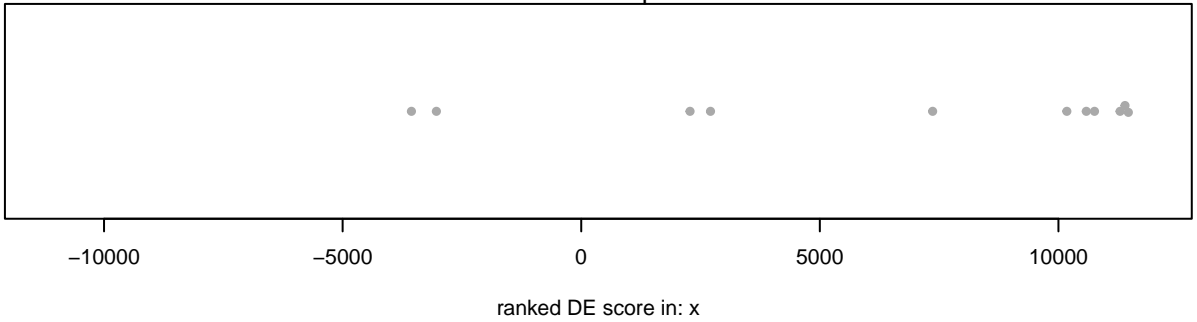


rugplot

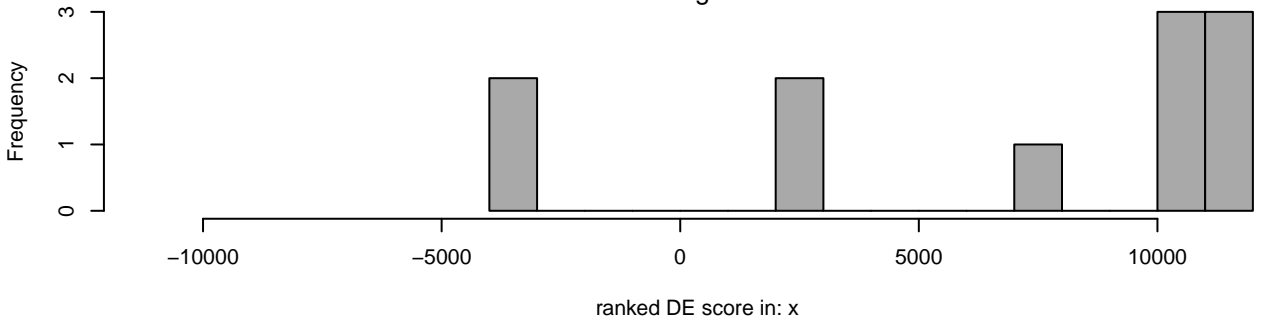


# CYP2E1 reactions

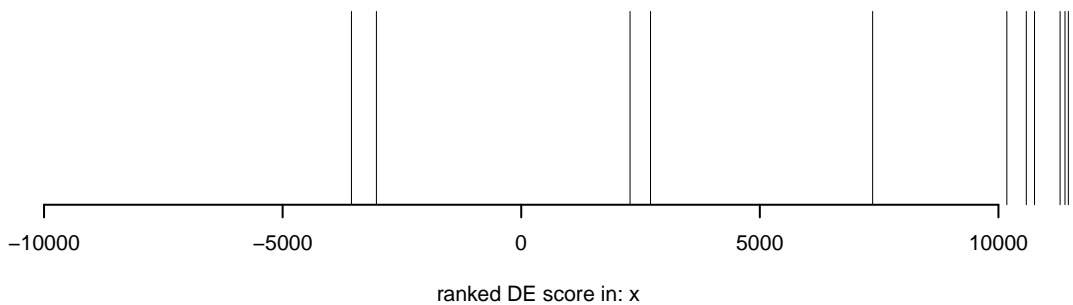
beeswarm plot



histogram

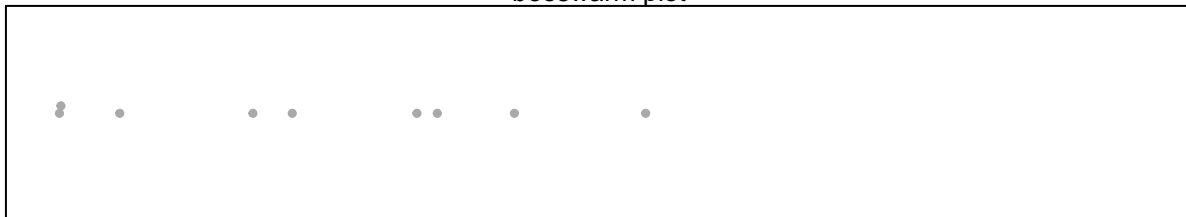


rugplot



# EGFR interacts with phospholipase C-gamma

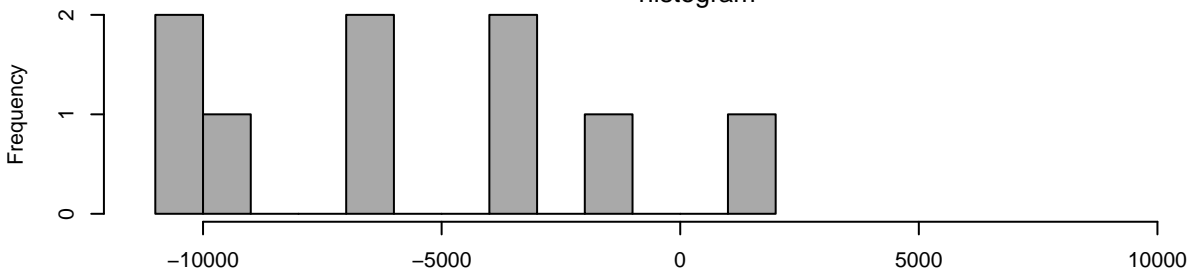
beeswarm plot



-10000 -5000 0 5000 10000

ranked DE score in: x

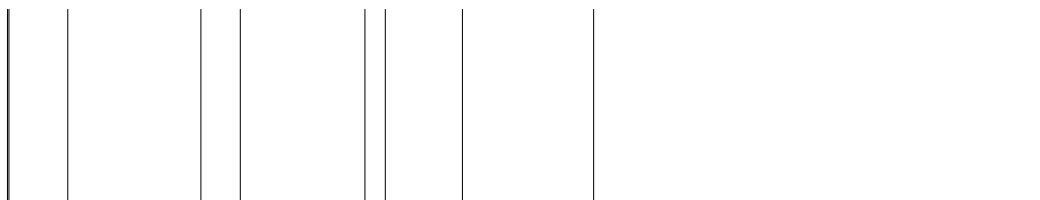
histogram



-10000 -5000 0 5000 10000

ranked DE score in: x

rugplot

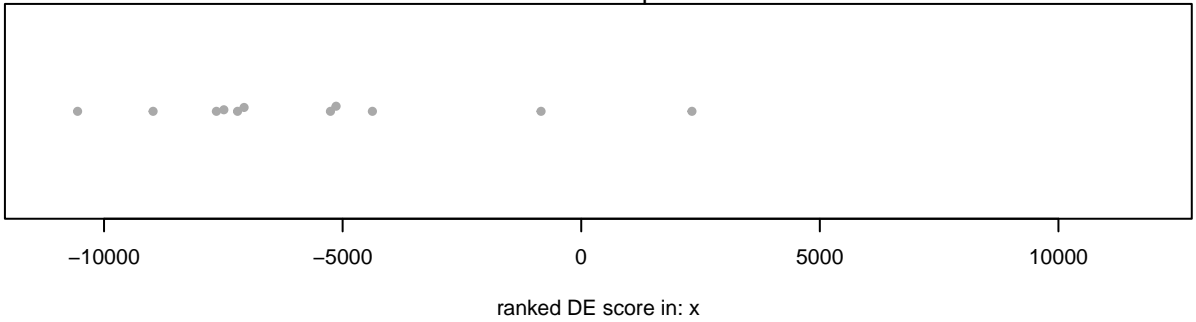


-10000 -5000 0 5000 10000

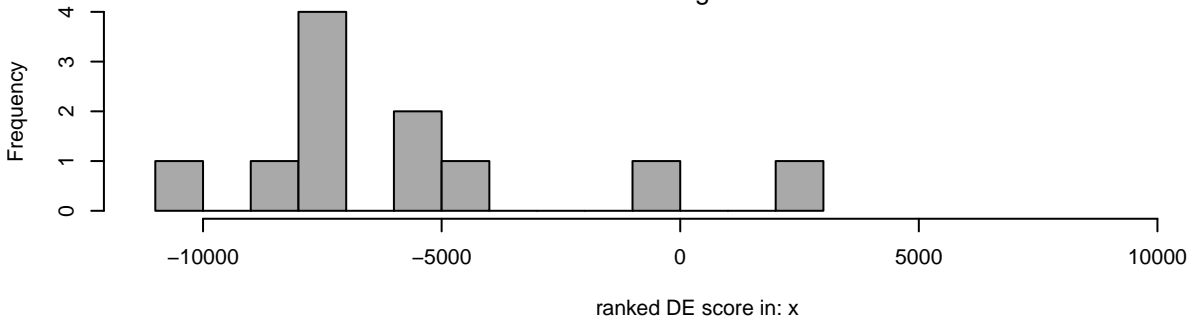
ranked DE score in: x

# Mucopolysaccharidoses

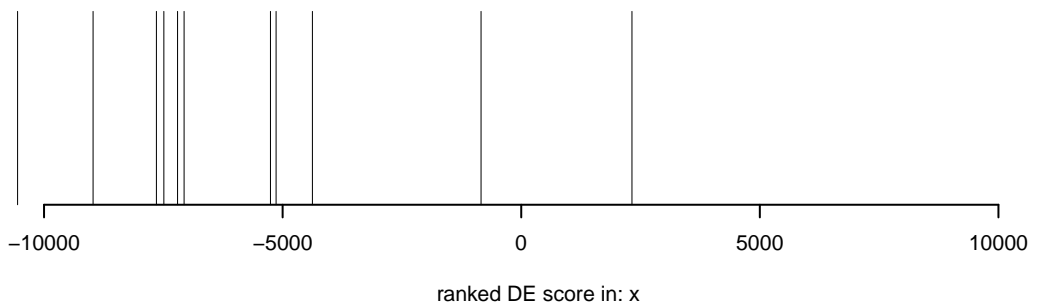
beeswarm plot



histogram



rugplot



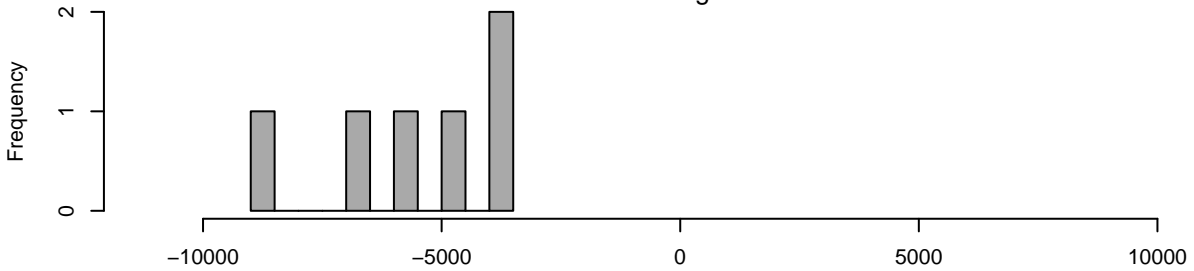
# Pre-NOTCH Processing in the Endoplasmic Reticulum

beeswarm plot



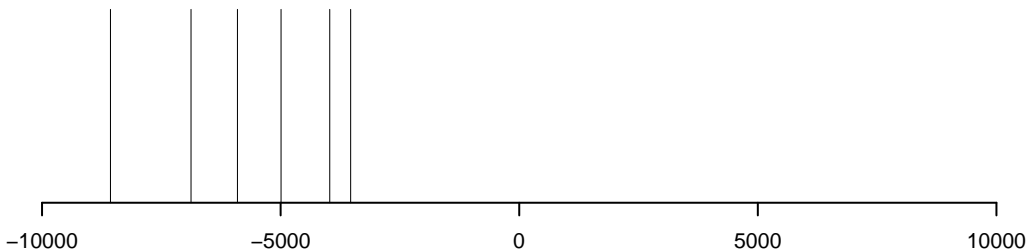
ranked DE score in: x

histogram



ranked DE score in: x

rugplot



ranked DE score in: x



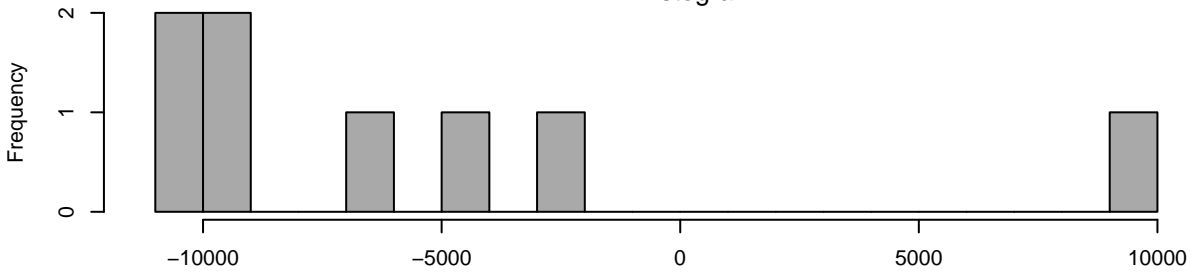
# Transport of fatty acids

beeswarm plot



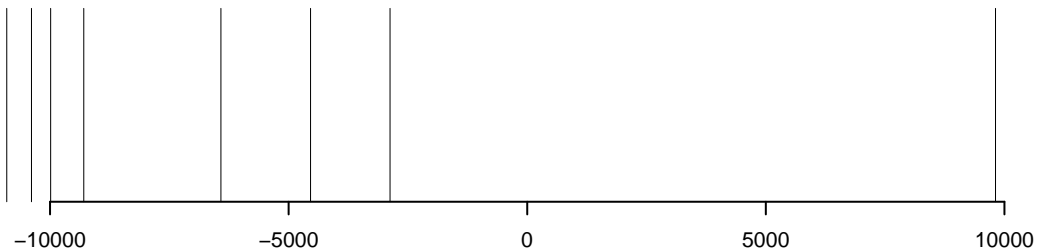
ranked DE score in: x

histogram



ranked DE score in: x

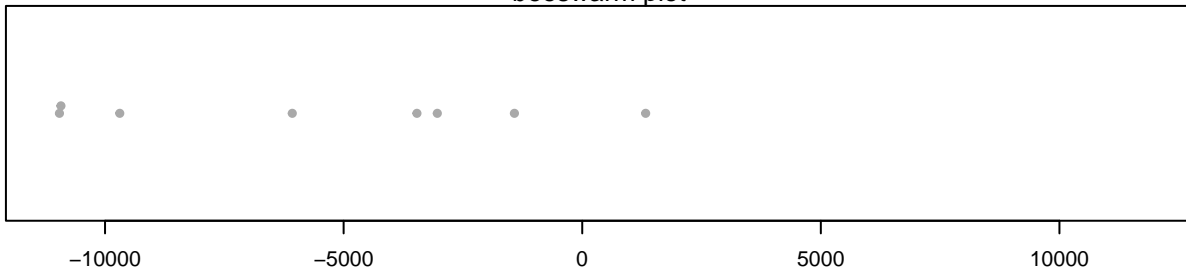
rugplot



ranked DE score in: x

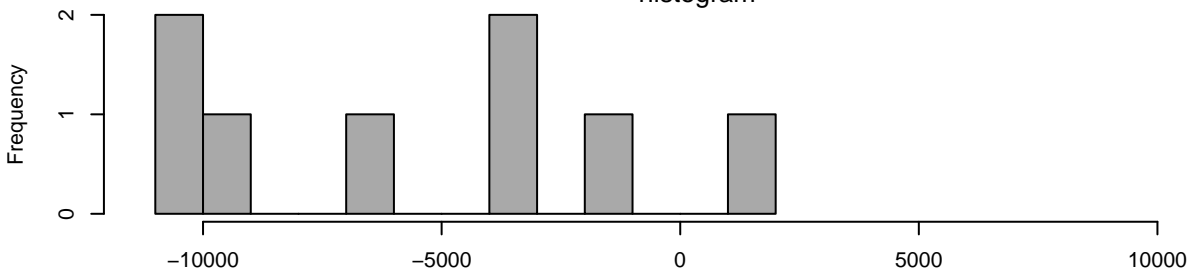
# Inhibition of Signaling by Overexpressed EGFR

beeswarm plot



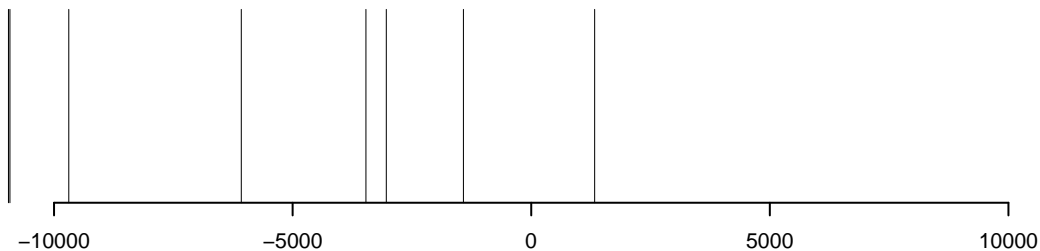
ranked DE score in: x

histogram



ranked DE score in: x

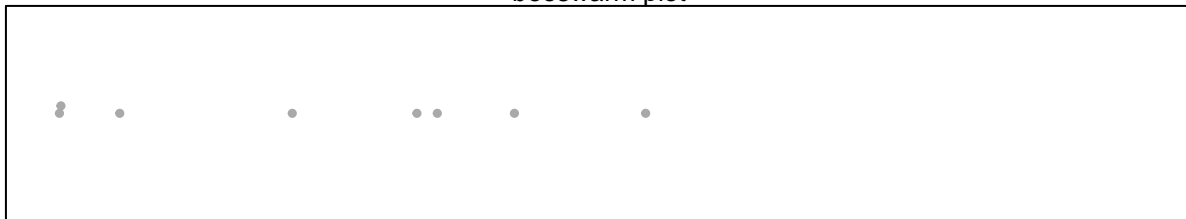
rugplot



ranked DE score in: x

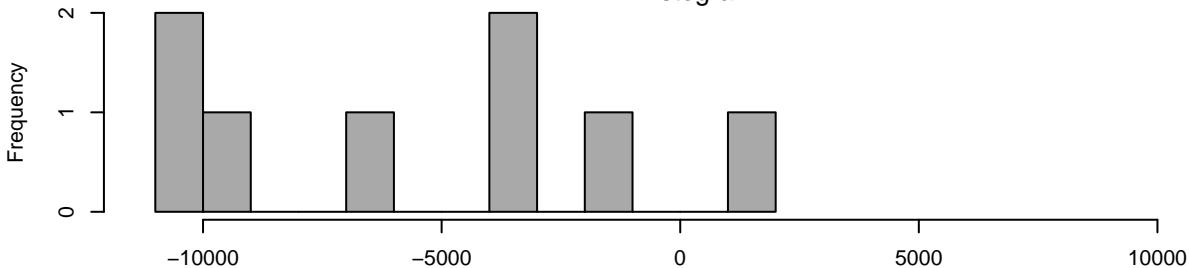
# Signaling by Overexpressed Wild-Type EGFR in Cancer

beeswarm plot



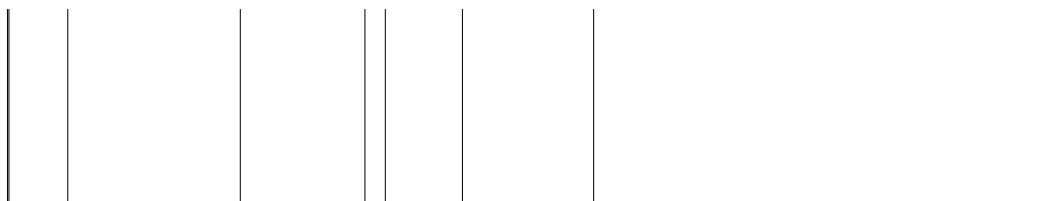
ranked DE score in: x

histogram



ranked DE score in: x

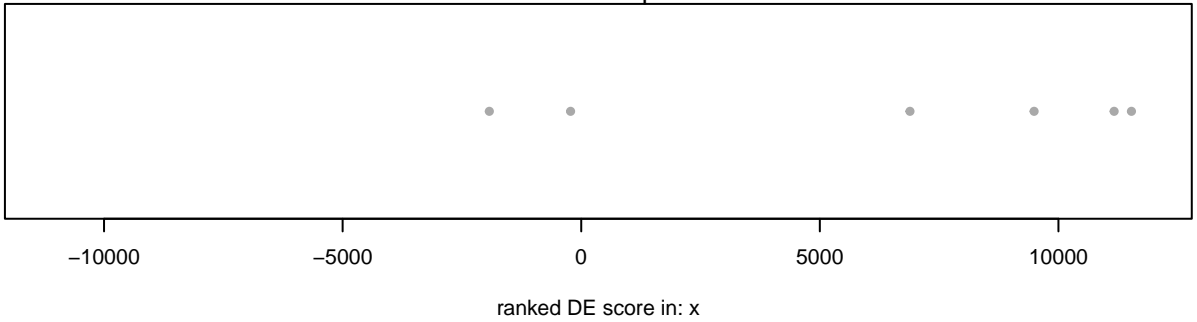
rugplot



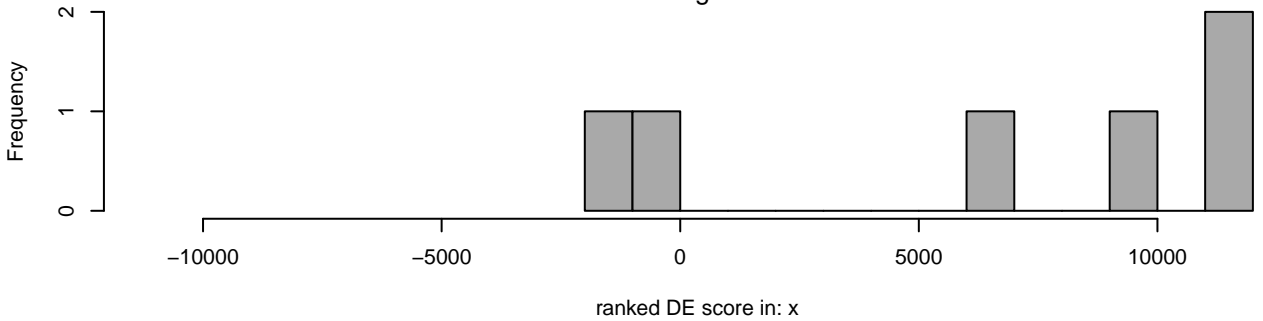
ranked DE score in: x

# Conjugation of benzoate with glycine

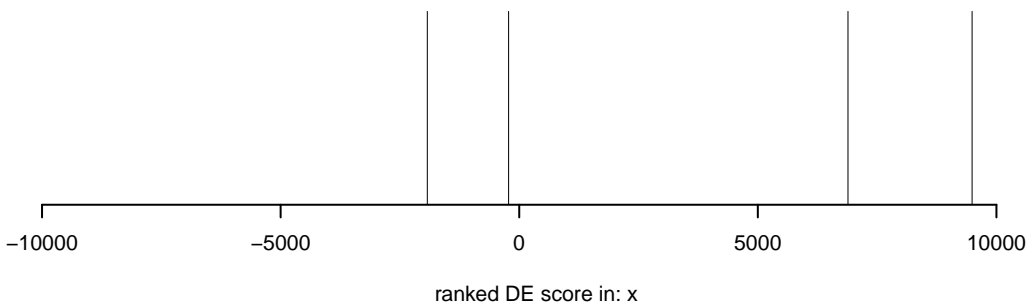
beeswarm plot



histogram

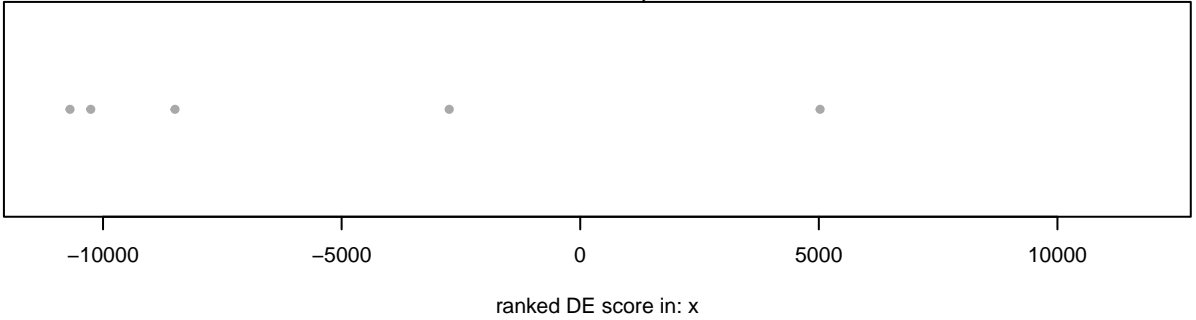


rugplot

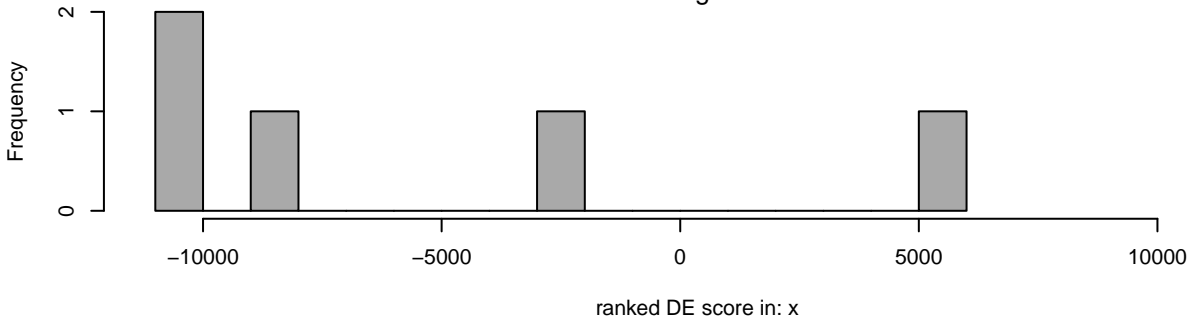


# Sulfide oxidation to sulfate

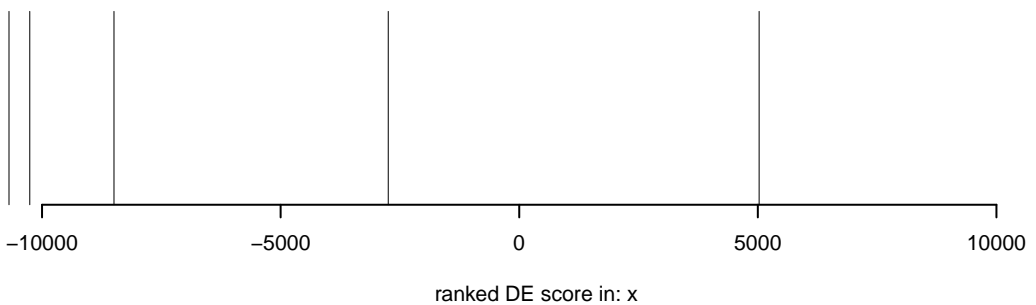
beeswarm plot



histogram

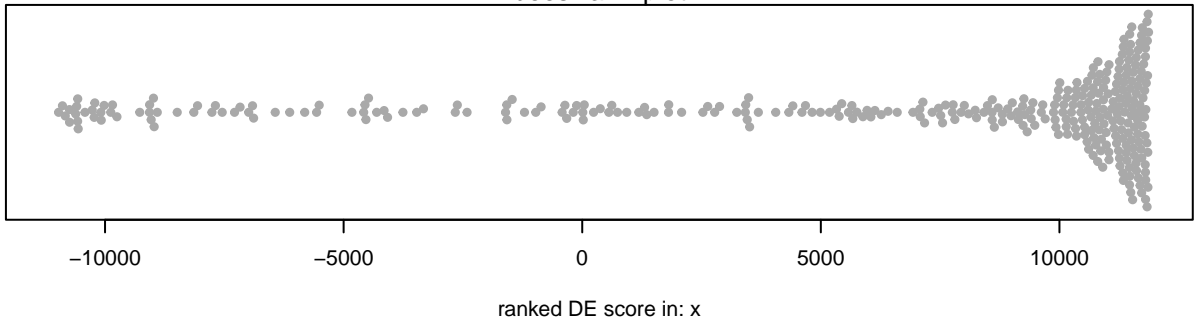


rugplot

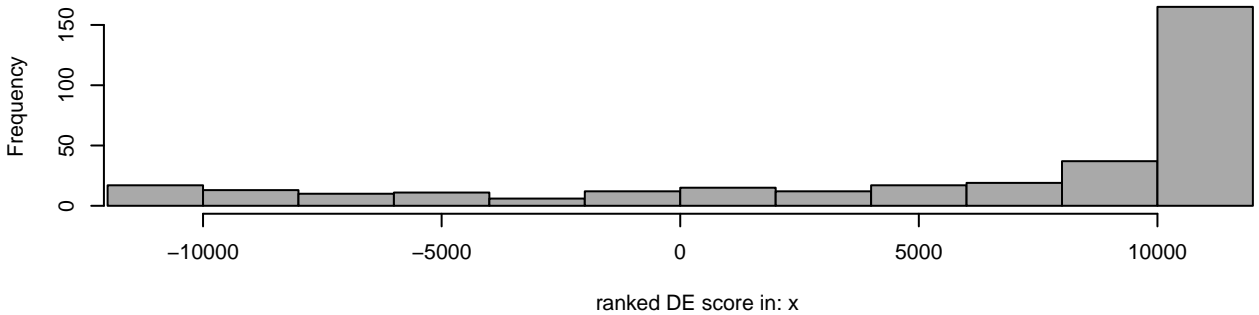


# Expression and translocation of olfactory receptors

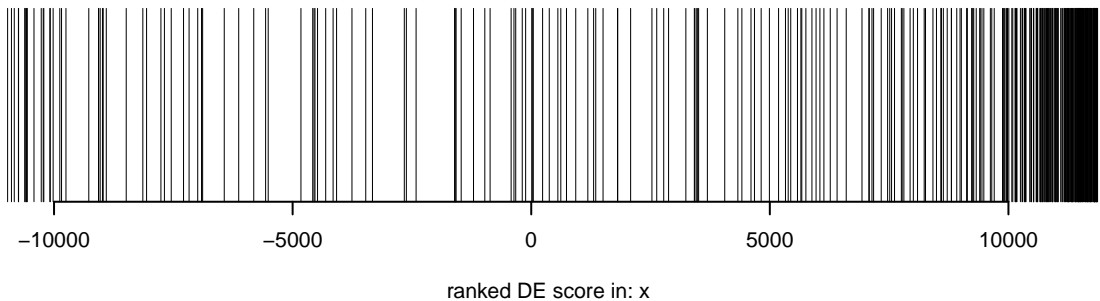
beeswarm plot



histogram

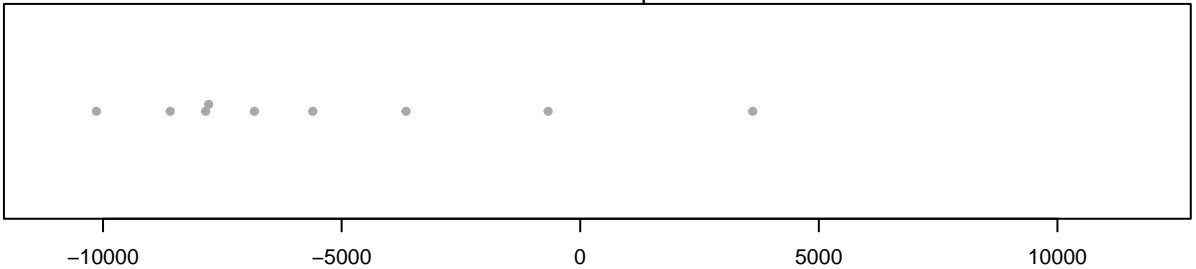


rugplot



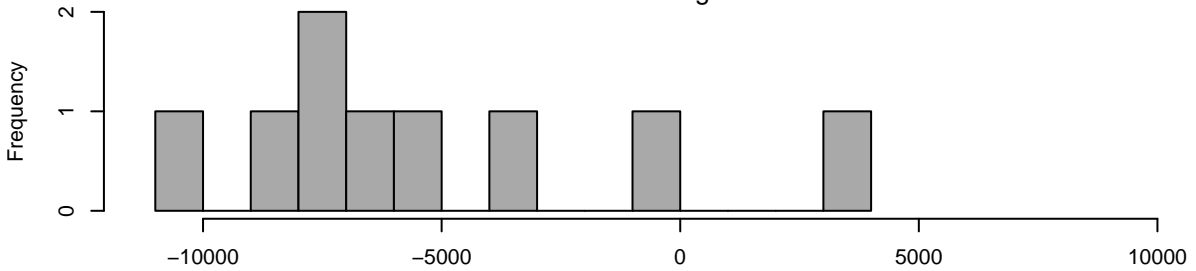
# Nef Mediated CD4 Down-regulation

beeswarm plot



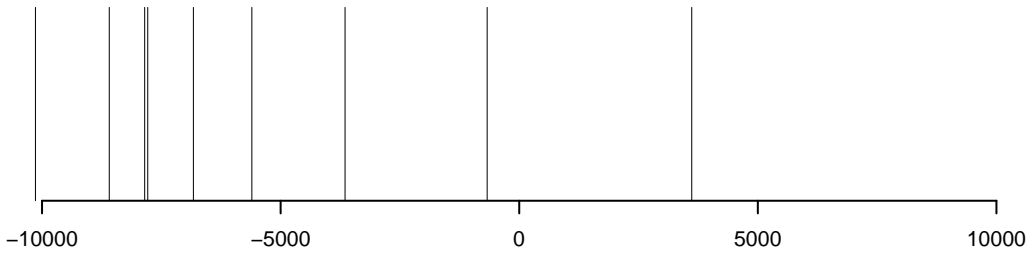
ranked DE score in: x

histogram



ranked DE score in: x

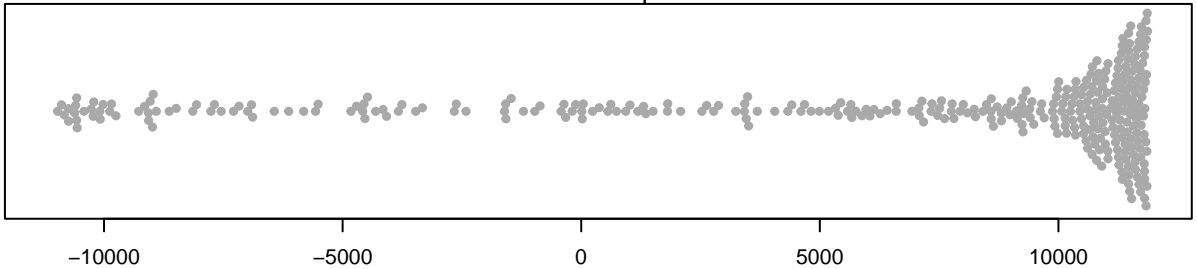
rugplot



ranked DE score in: x

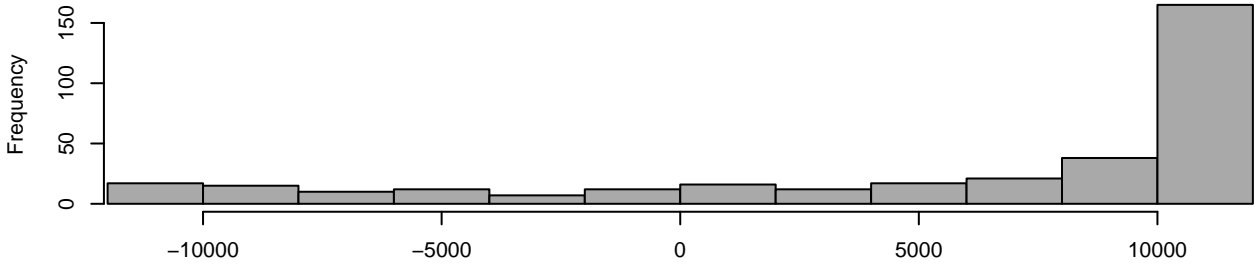
# Olfactory Signaling Pathway

beeswarm plot



ranked DE score in: x

histogram



ranked DE score in: x

rugplot

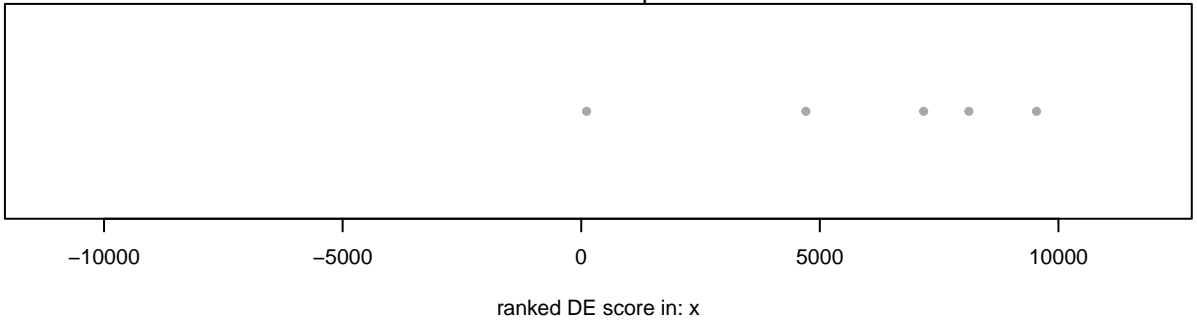


ranked DE score in: x

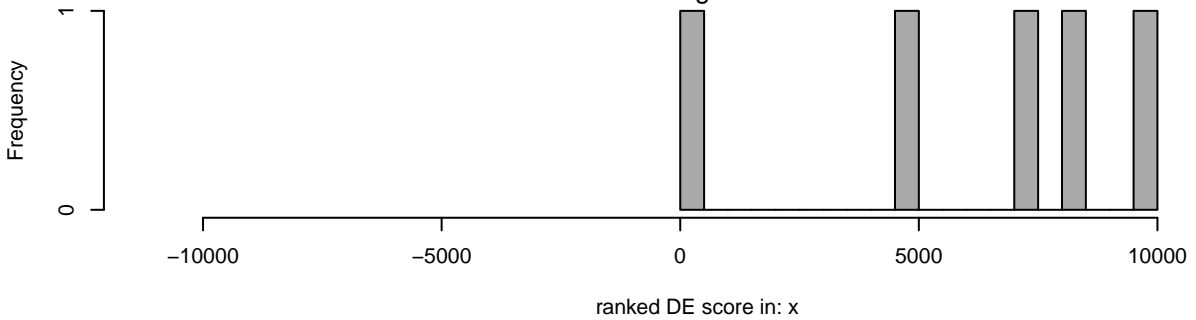


# Reelin signalling pathway

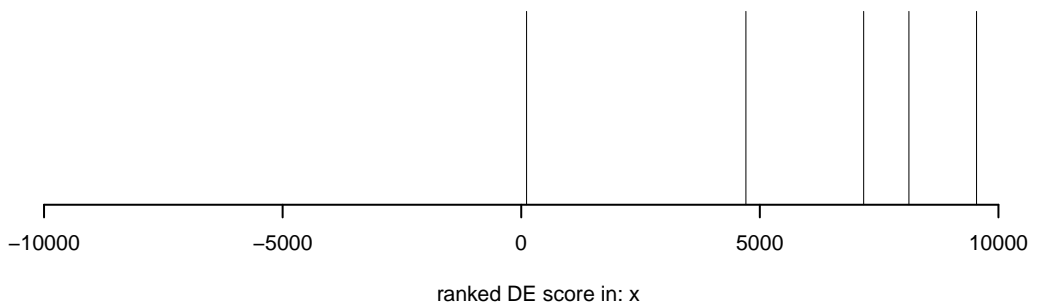
beeswarm plot



histogram

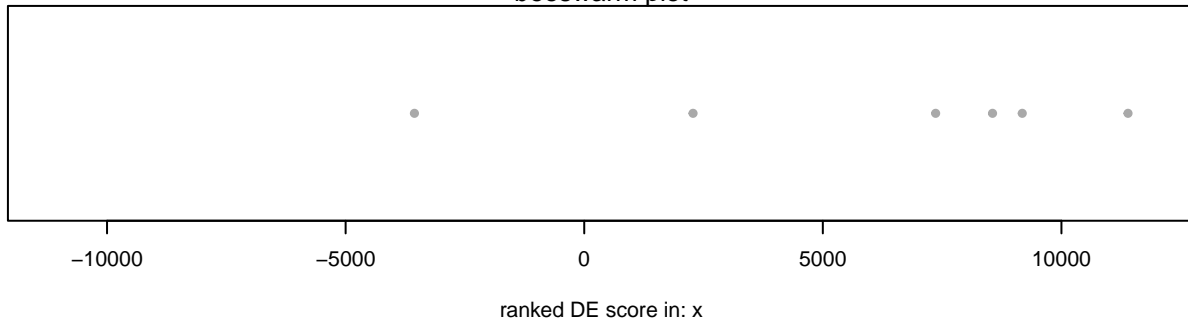


rugplot

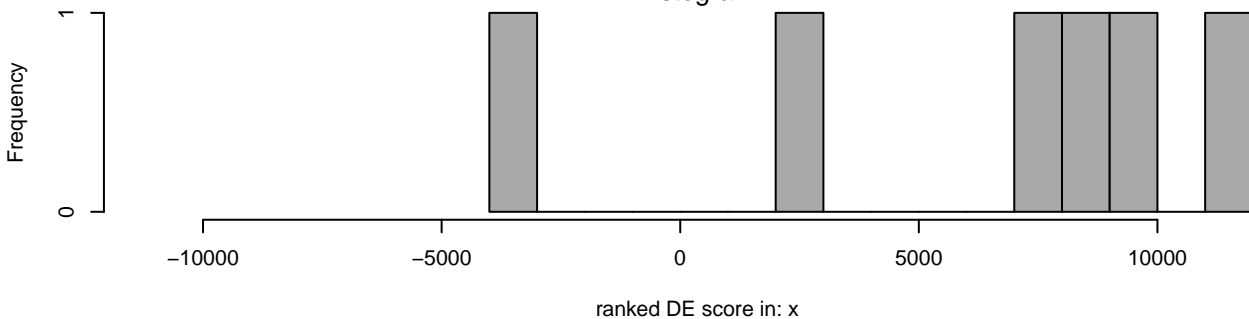


# Biosynthesis of maresin-like SPMs

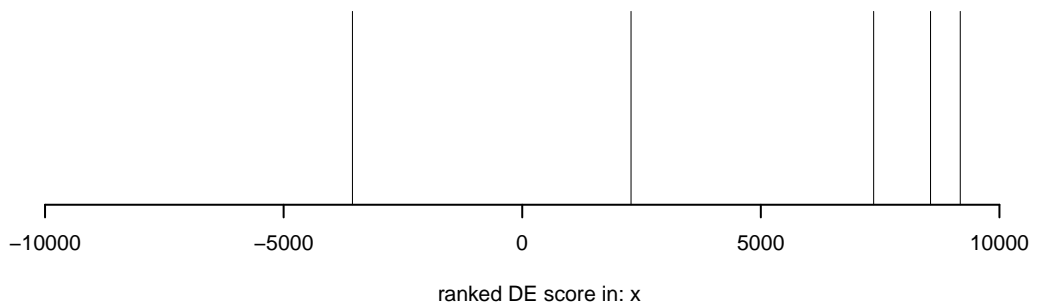
beeswarm plot



histogram

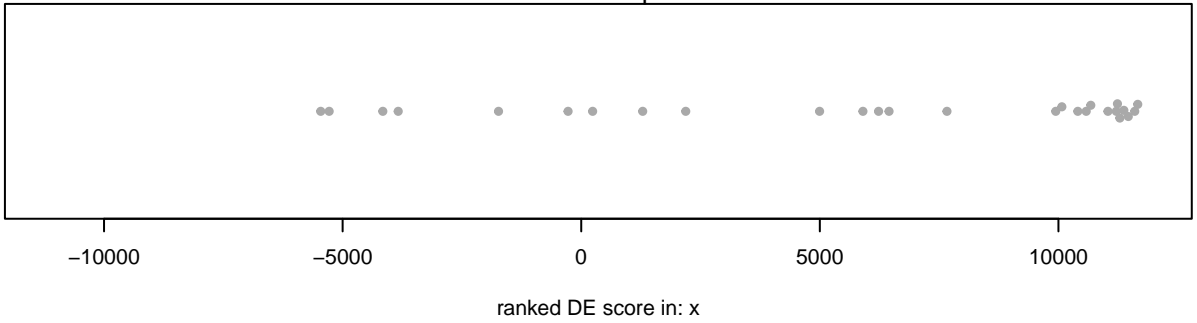


rugplot

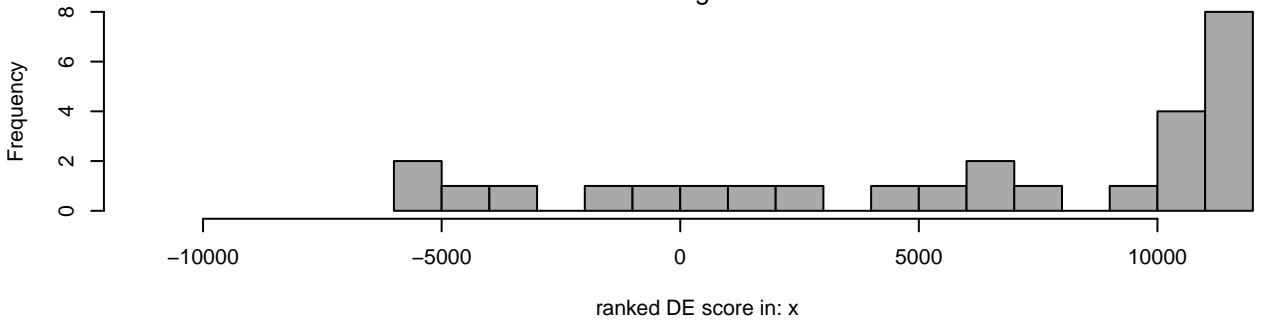


# Beta defensins

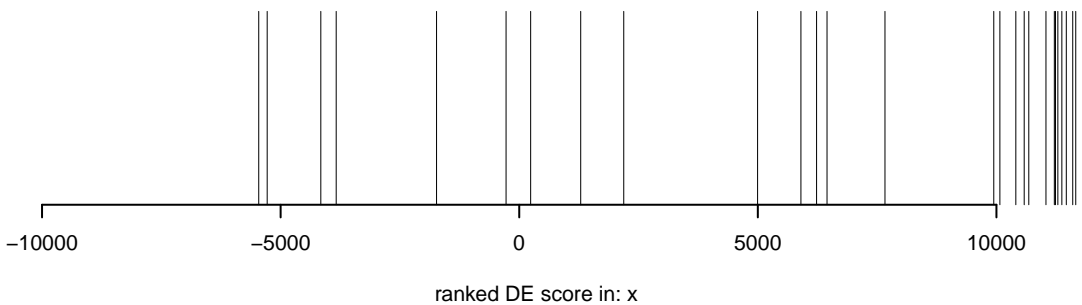
beeswarm plot



histogram

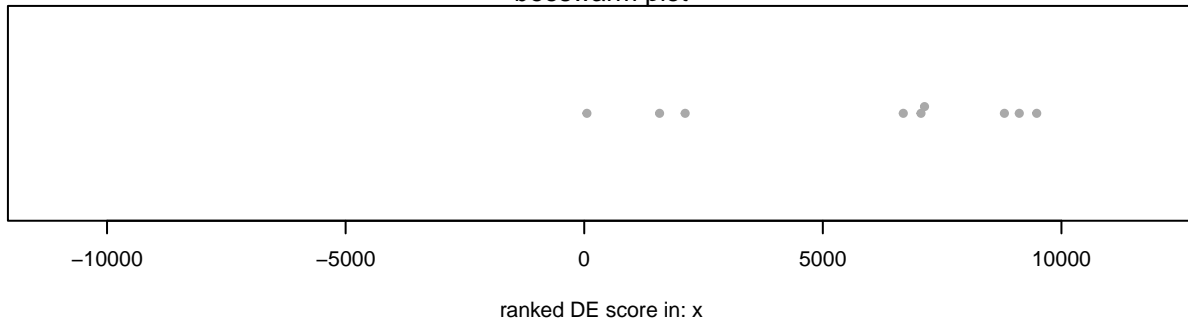


rugplot

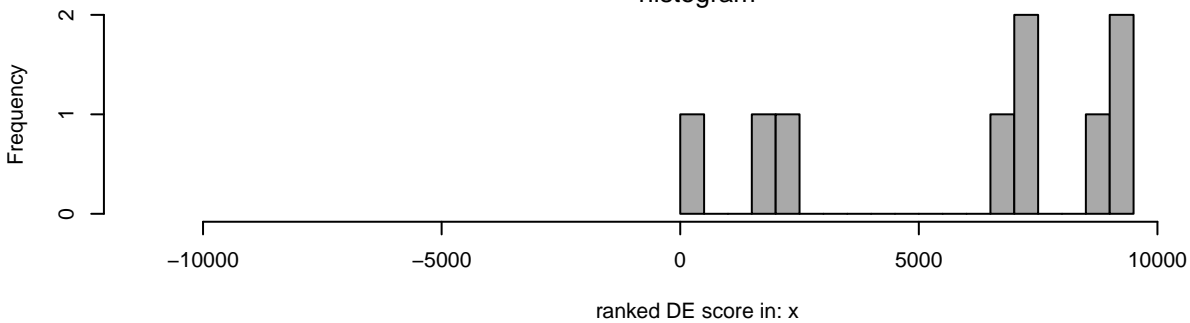


# E2F-enabled inhibition of pre-replication complex formation

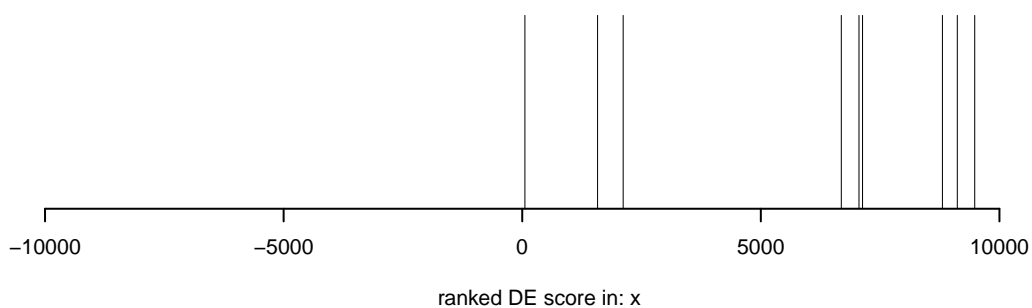
beeswarm plot



histogram

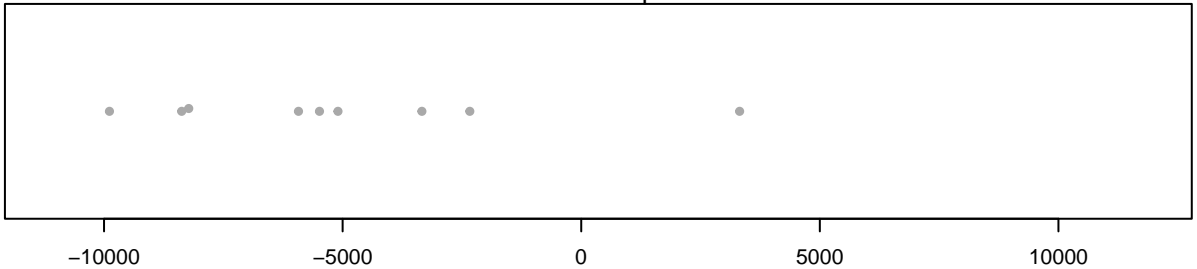


rugplot



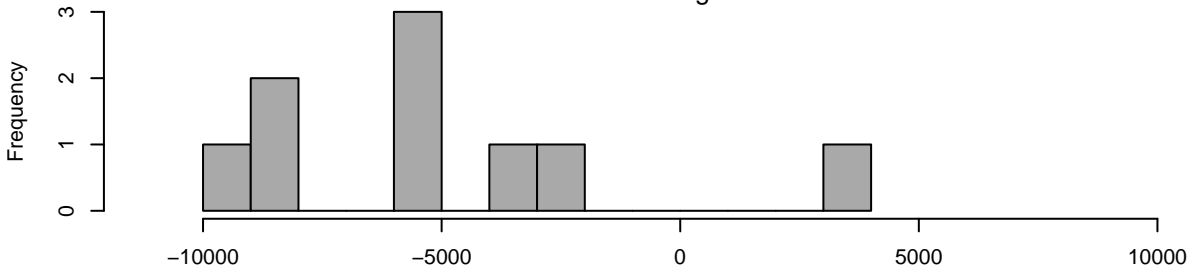
# OAS antiviral response

beeswarm plot



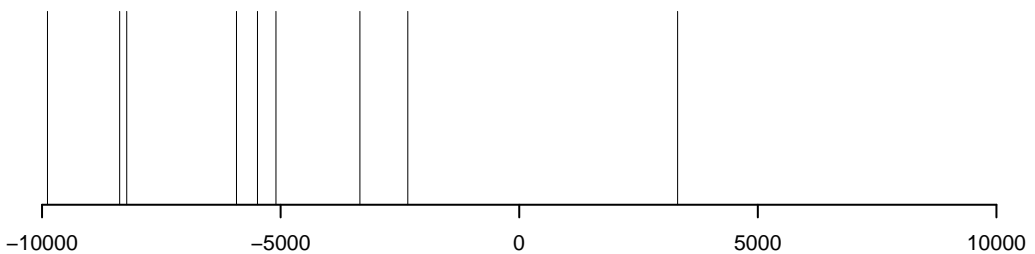
ranked DE score in: x

histogram



ranked DE score in: x

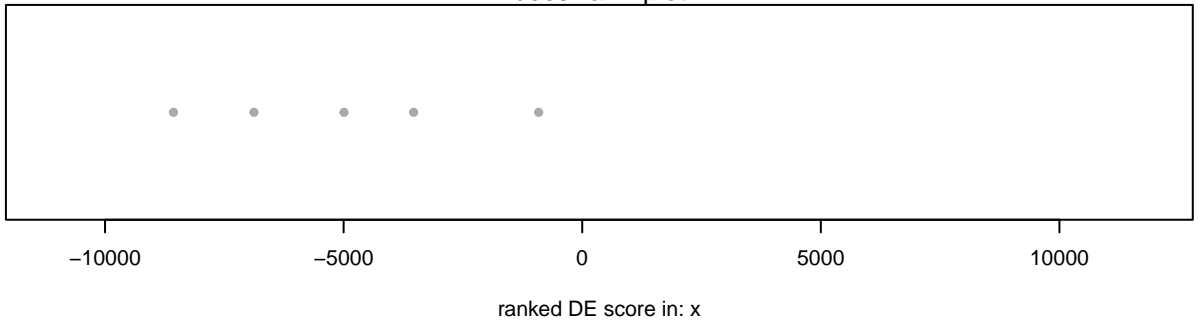
rugplot



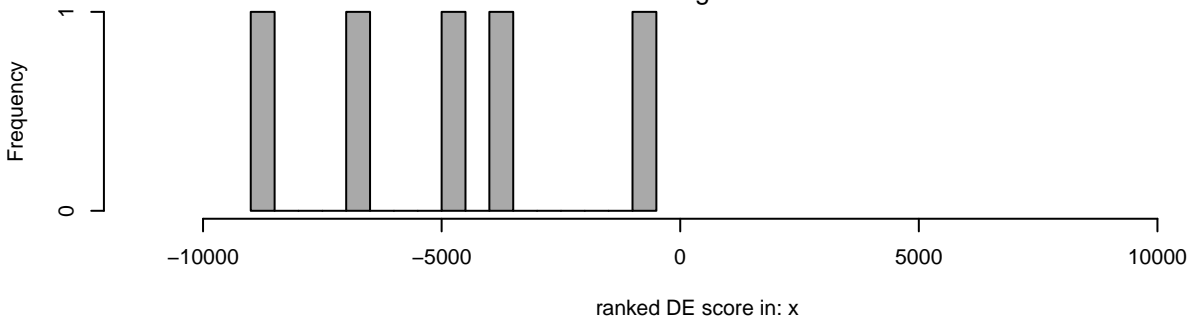
ranked DE score in: x

# Defective LFNG causes SCDO3

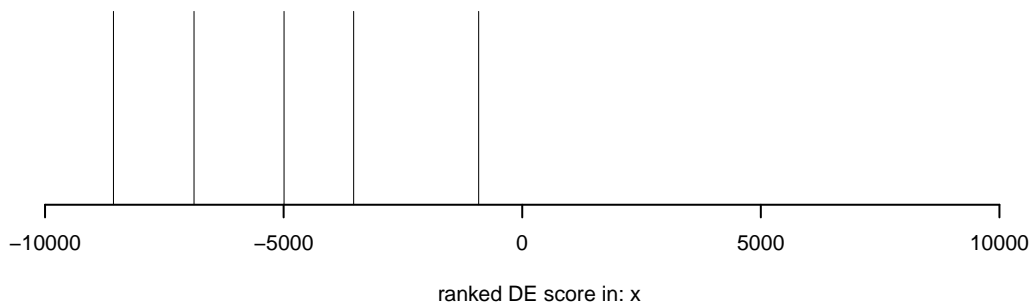
beeswarm plot



histogram

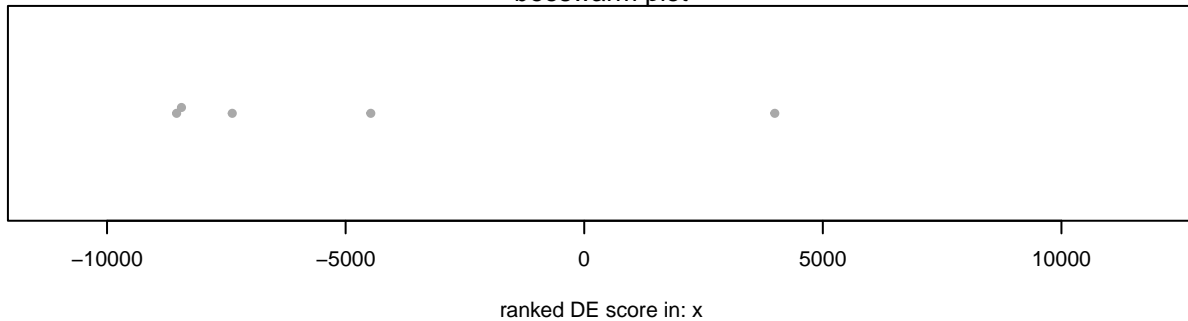


rugplot

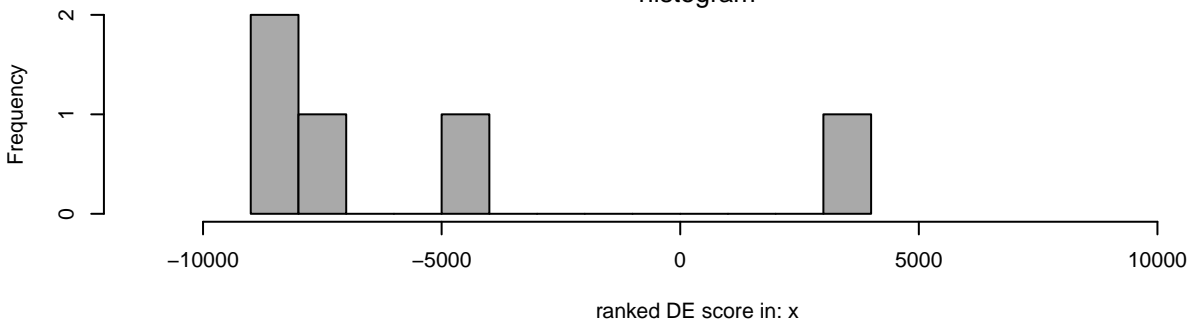


# NR1H2 & NR1H3 regulate gene expression linked to triglyceride lipolysis in adipose

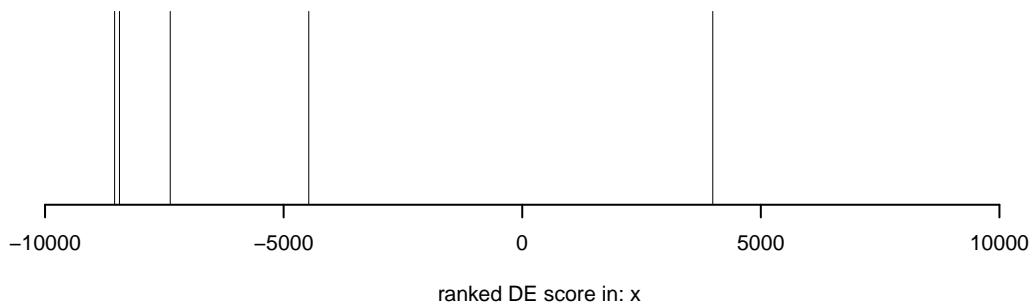
beeswarm plot



histogram

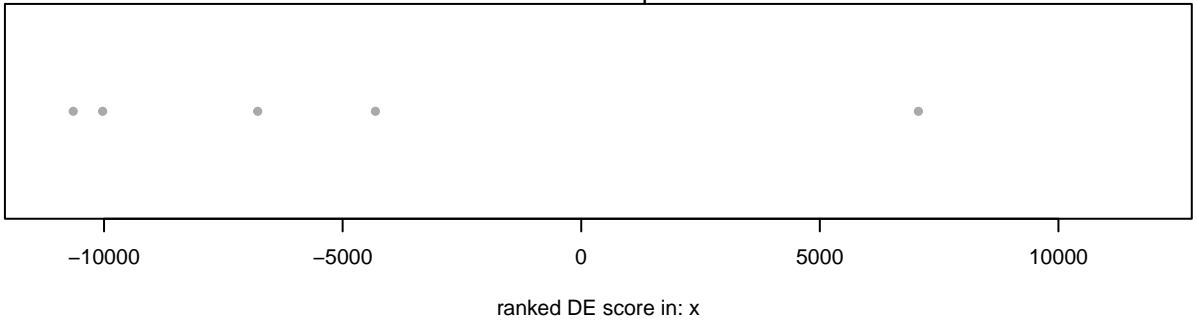


rugplot

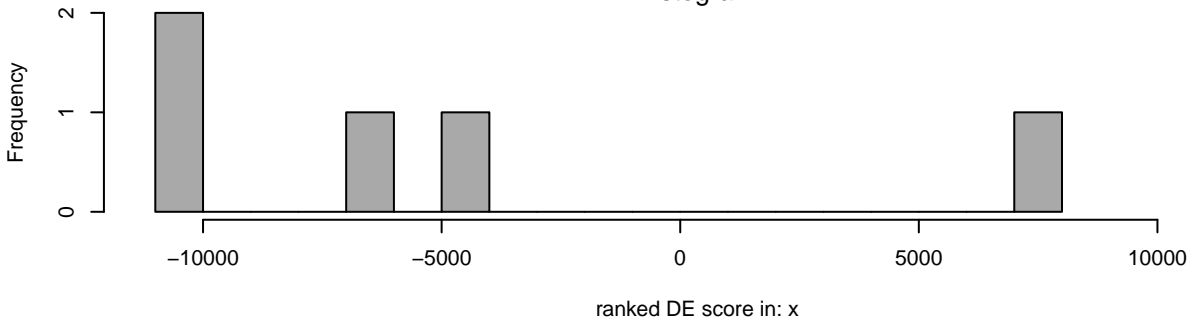


# GRB7 events in ERBB2 signaling

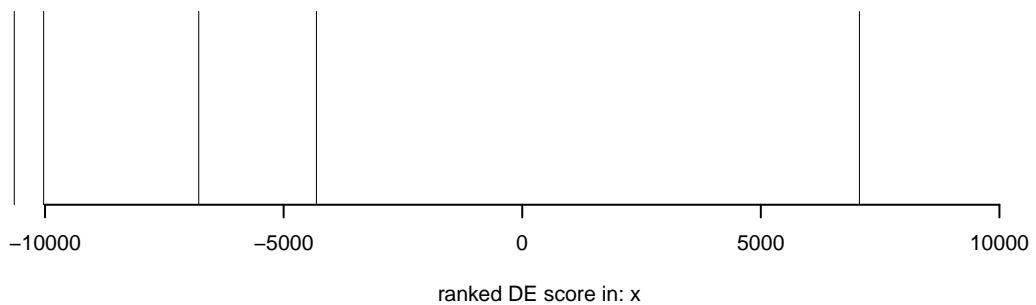
beeswarm plot



histogram



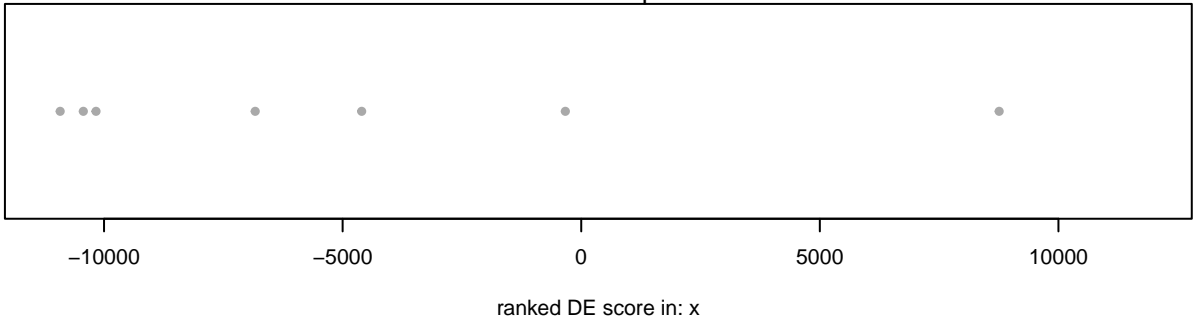
rugplot



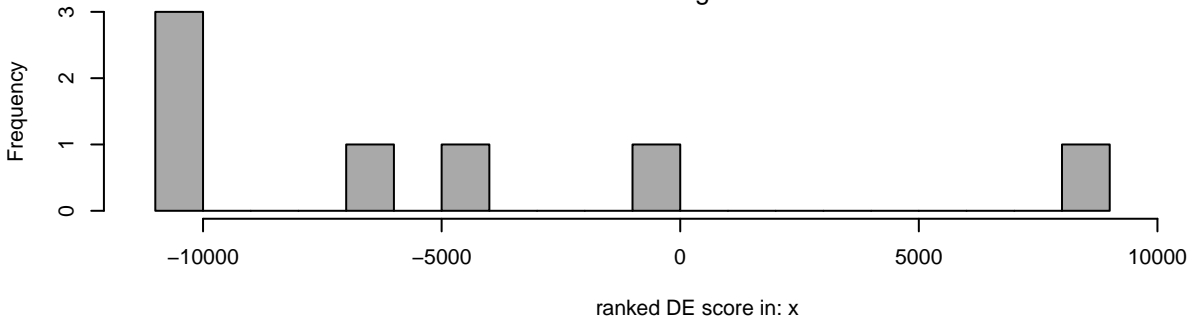


# Regulation of CDH19 Expression and Function

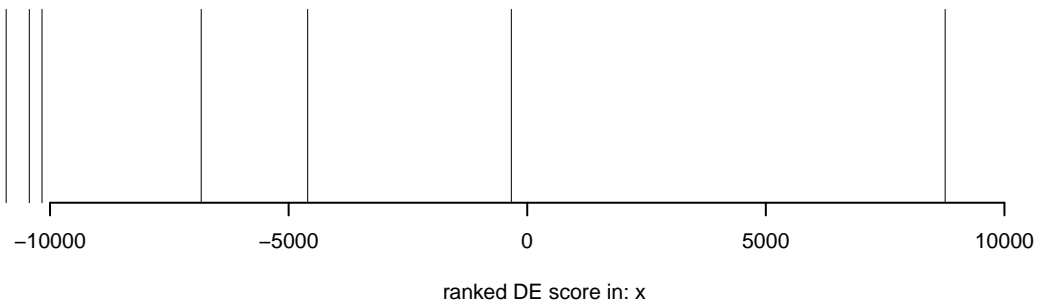
beeswarm plot



histogram



rugplot



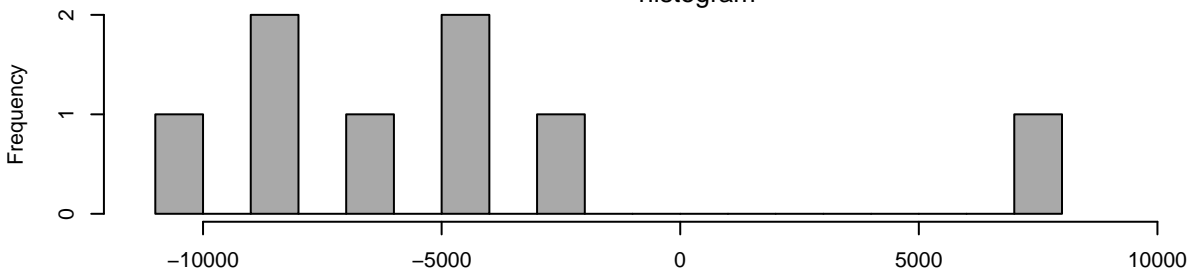
# Sema4D mediated inhibition of cell attachment and migration

beeswarm plot



ranked DE score in: x

histogram



ranked DE score in: x

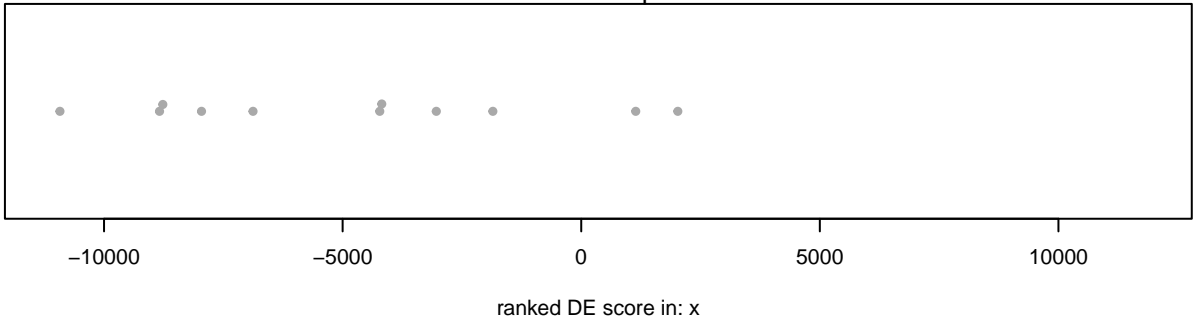
rugplot



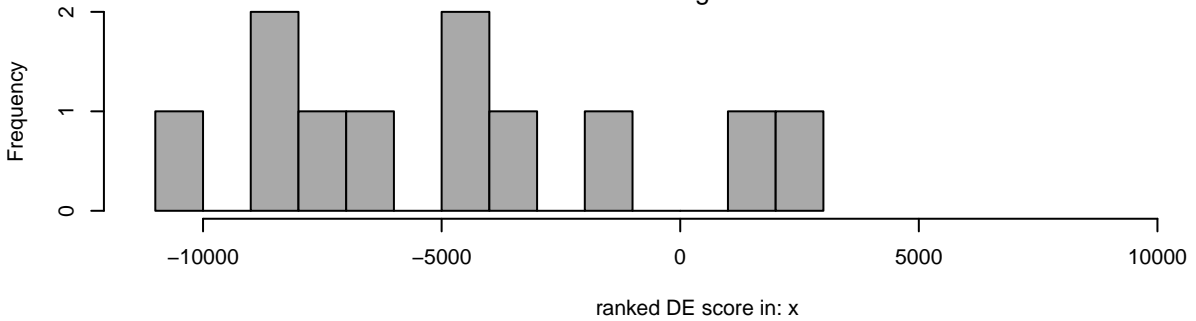
ranked DE score in: x

# NFE2L2 regulating tumorigenic genes

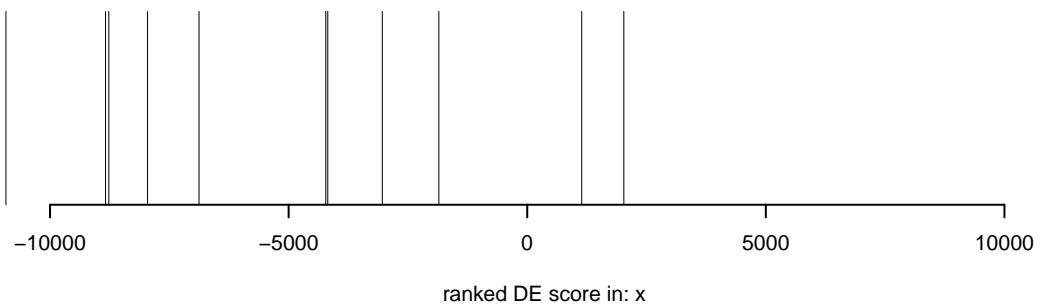
beeswarm plot



histogram

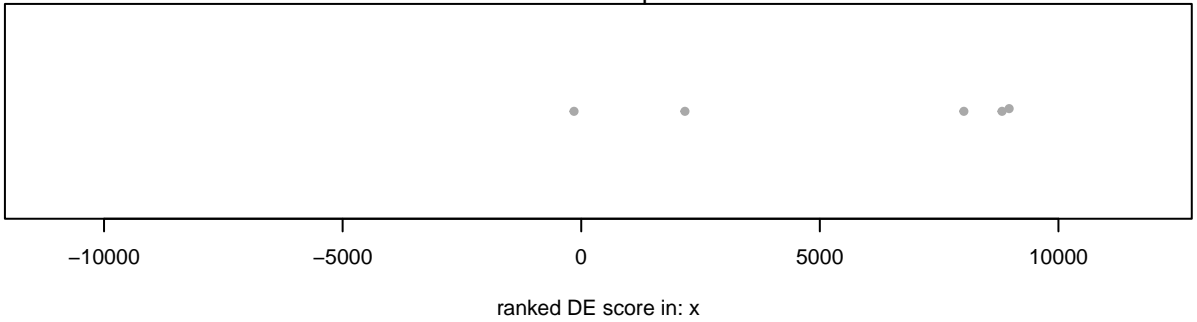


rugplot

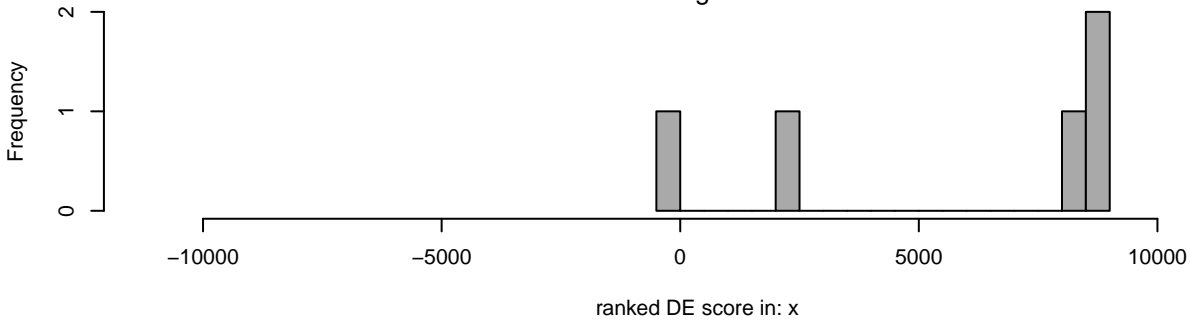


# Regulation of gene expression in endocrine-committed (NEUROG3+) progenitor cells

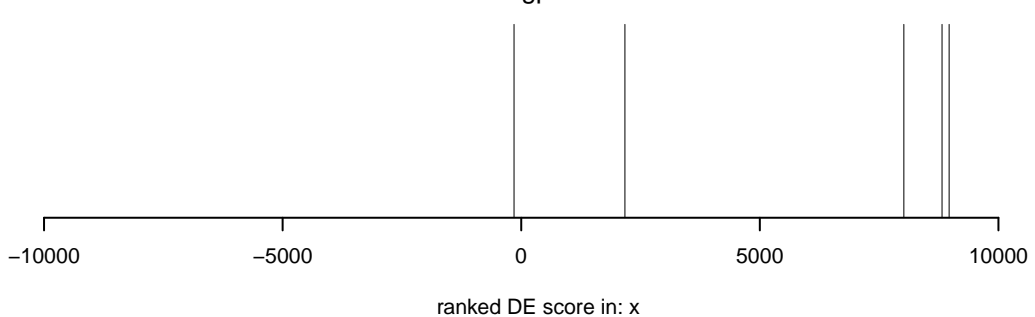
beeswarm plot



histogram

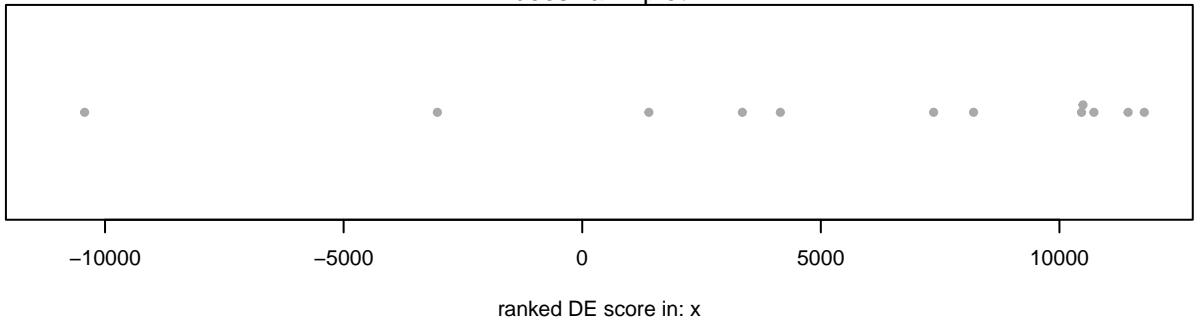


rugplot

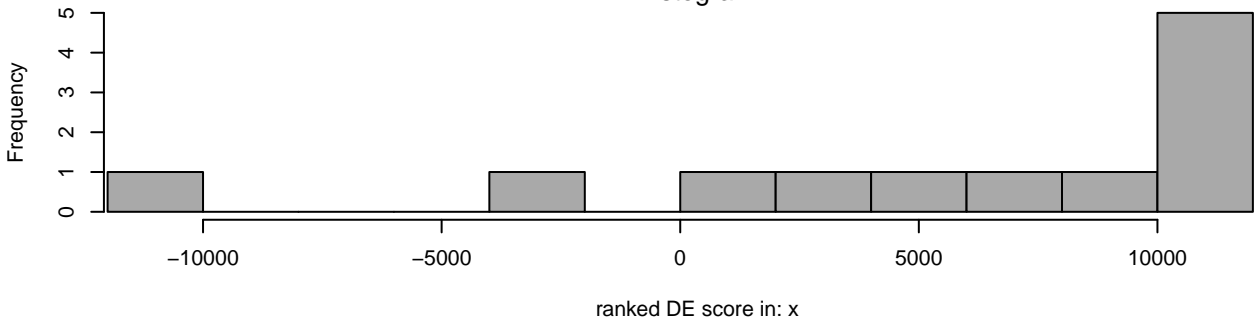


# Miscellaneous substrates

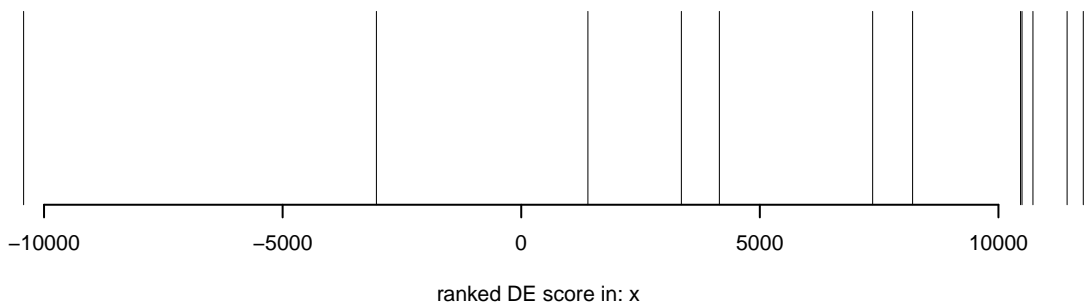
beeswarm plot



histogram

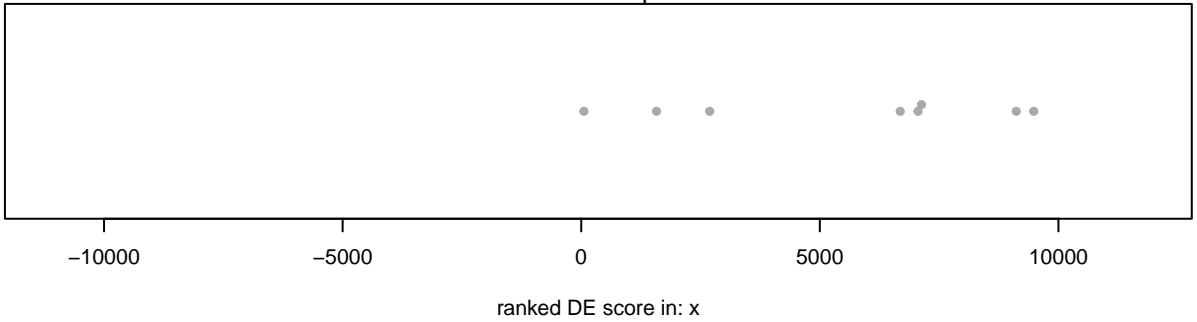


rugplot

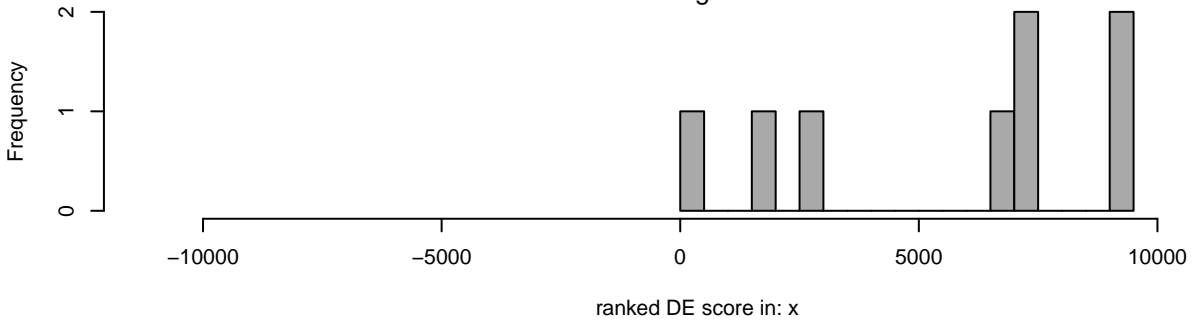


# CDC6 association with the ORC:origin complex

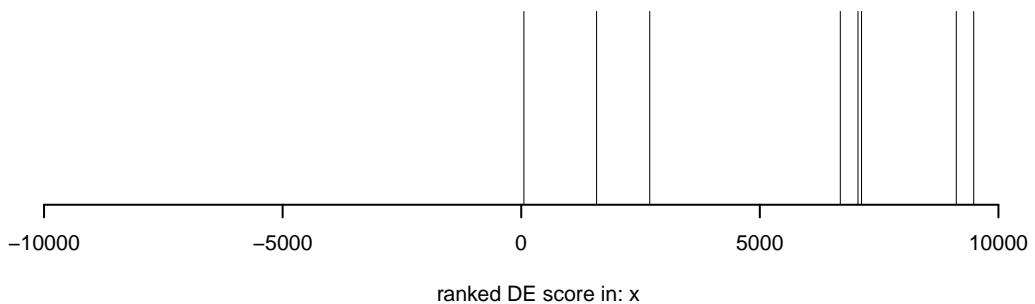
beeswarm plot



histogram

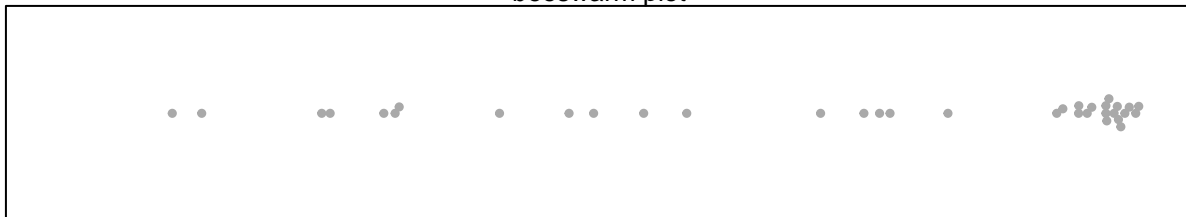


rugplot



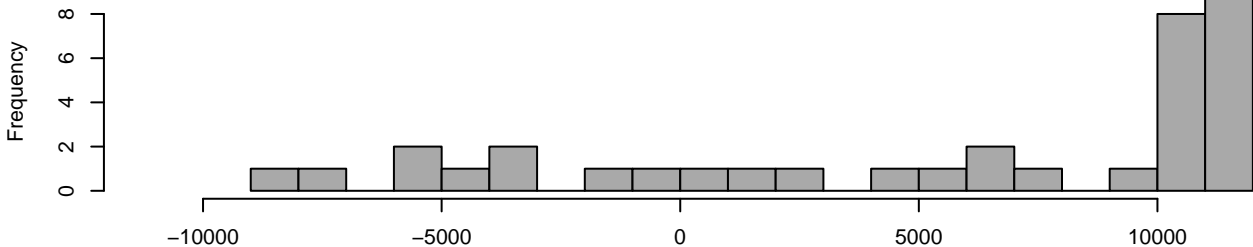
# Defensins

beeswarm plot



ranked DE score in: x

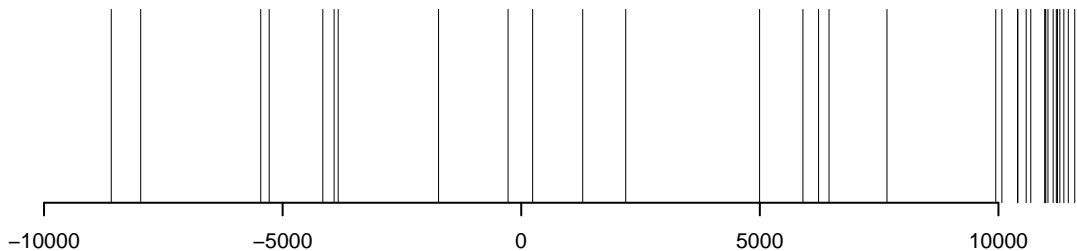
histogram



Frequency

ranked DE score in: x

rugplot



-10000

-5000

0

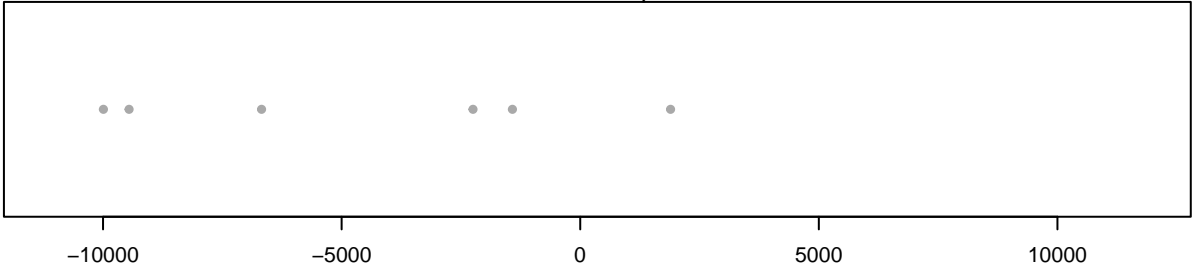
5000

10000

ranked DE score in: x

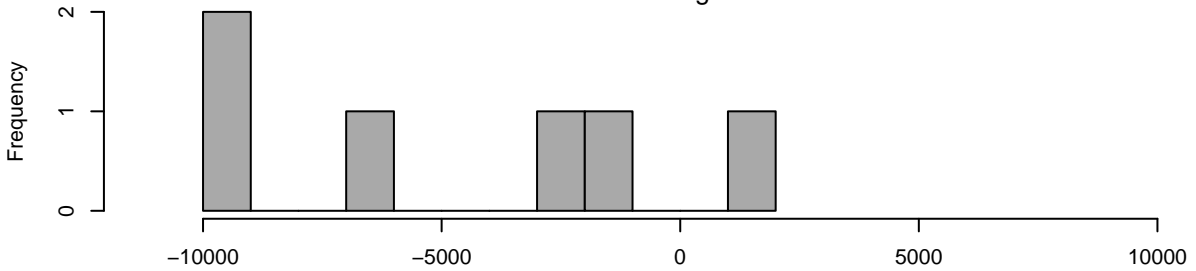
# Uptake and function of diphtheria toxin

beeswarm plot



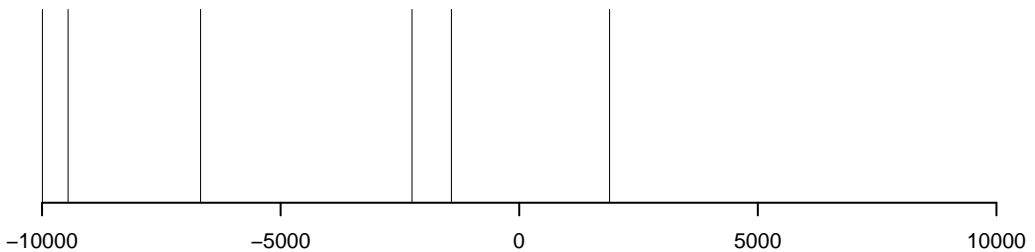
ranked DE score in: x

histogram



ranked DE score in: x

rugplot

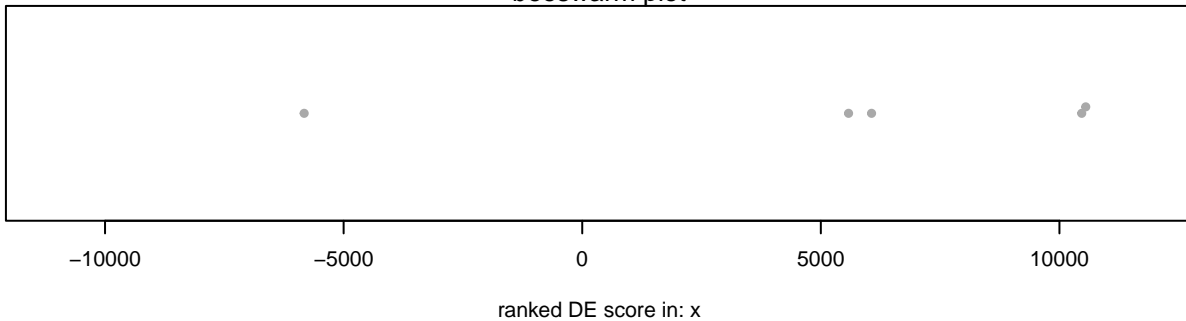


ranked DE score in: x

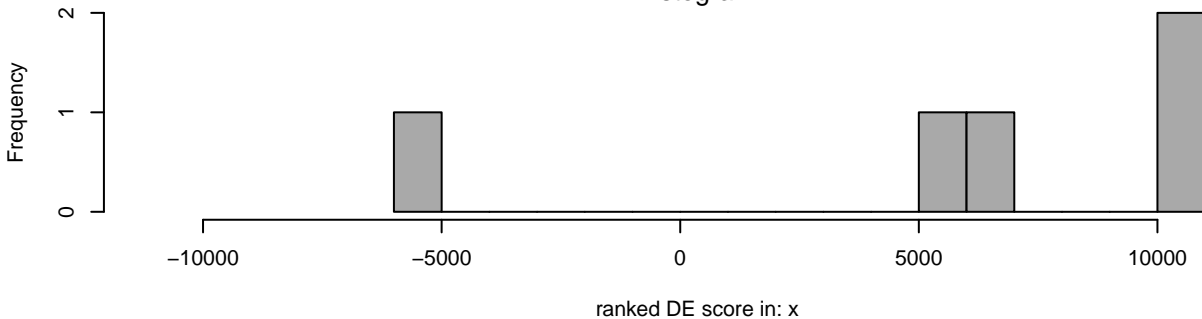


# Ciprofloxacin ADME

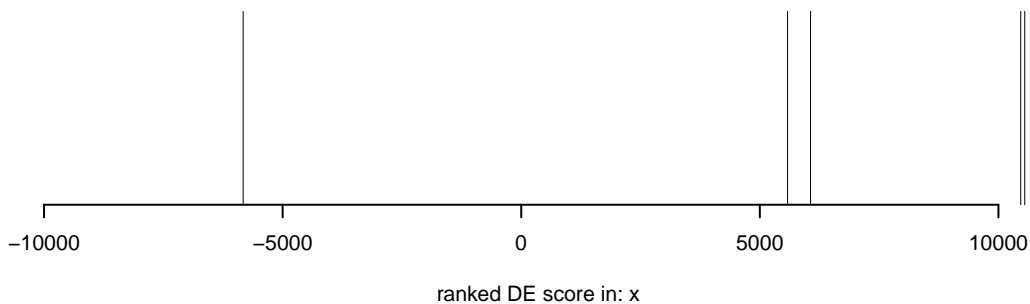
beeswarm plot



histogram

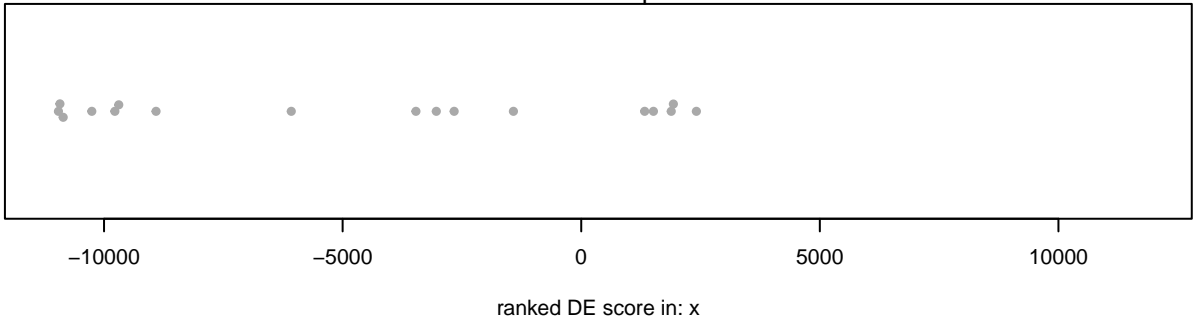


rugplot

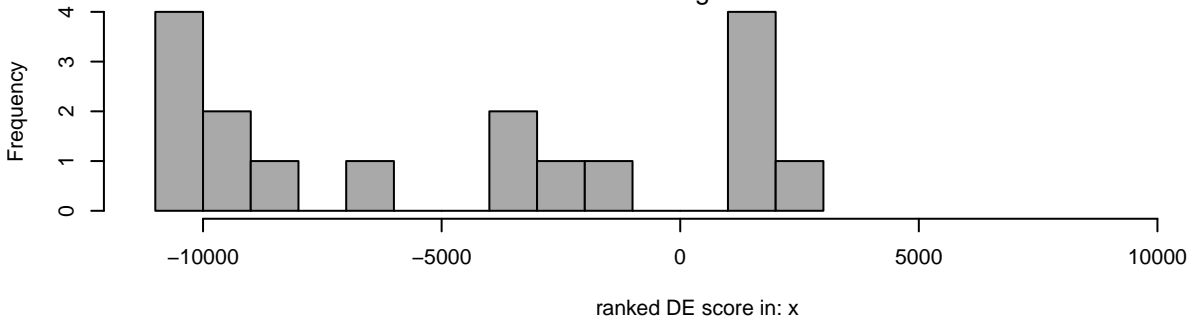


# GAB1 signalosome

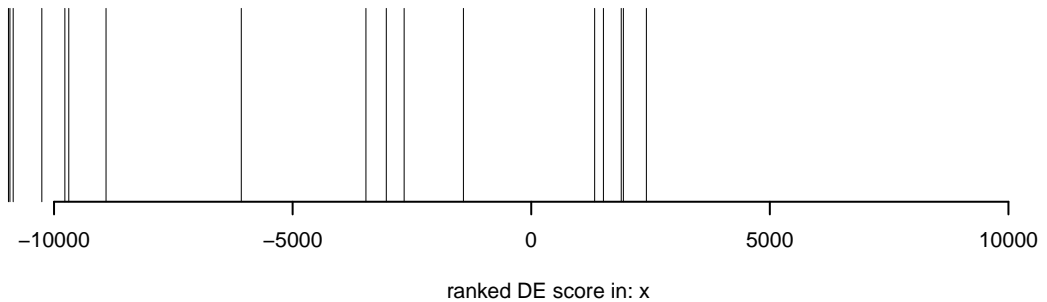
beeswarm plot



histogram

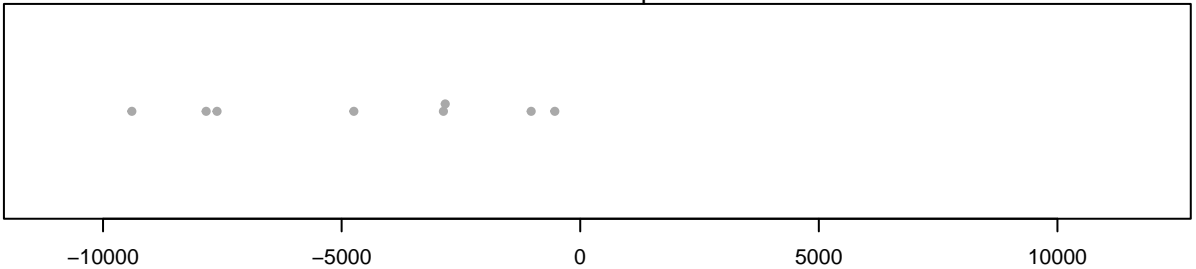


rugplot



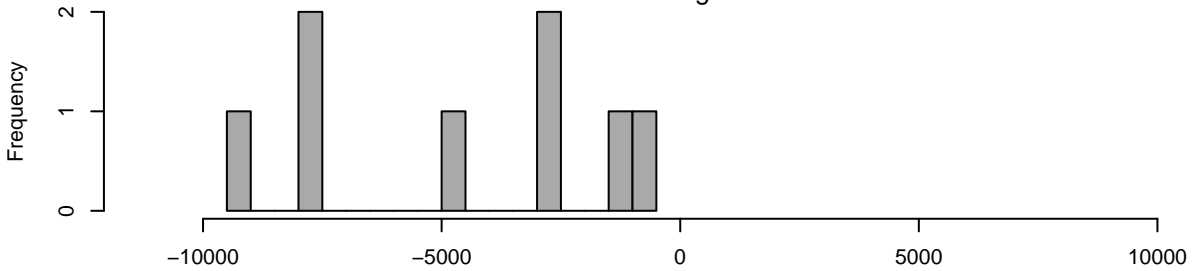
# Synthesis of Ketone Bodies

beeswarm plot



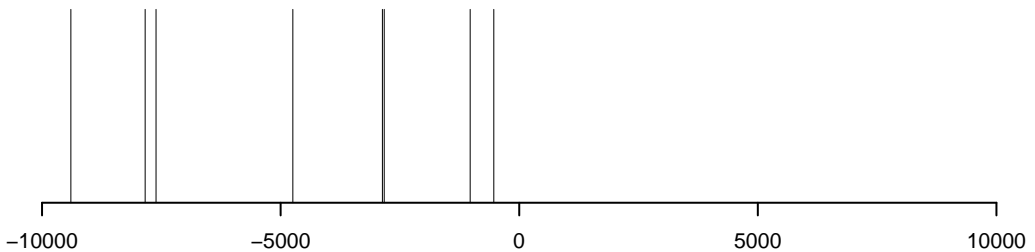
ranked DE score in: x

histogram



ranked DE score in: x

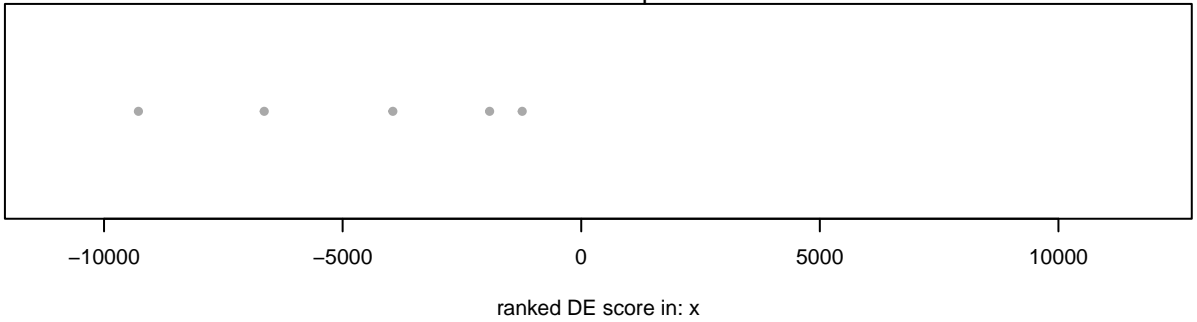
rugplot



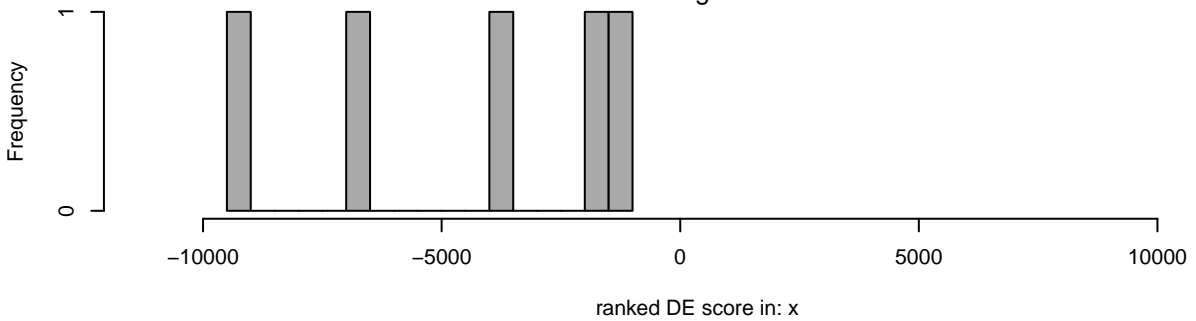
ranked DE score in: x

# Arachidonate production from DAG

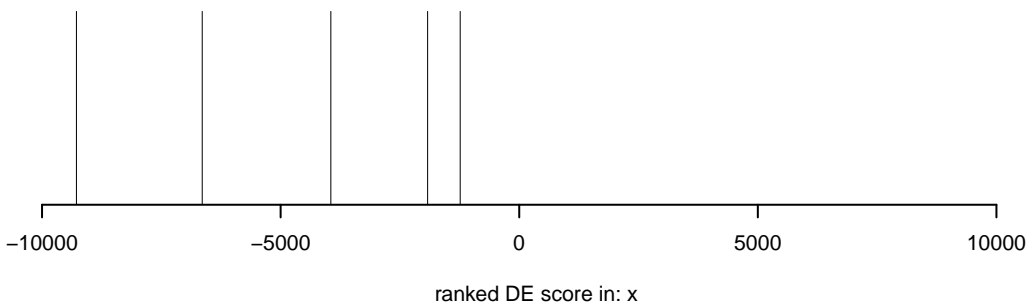
beeswarm plot



histogram

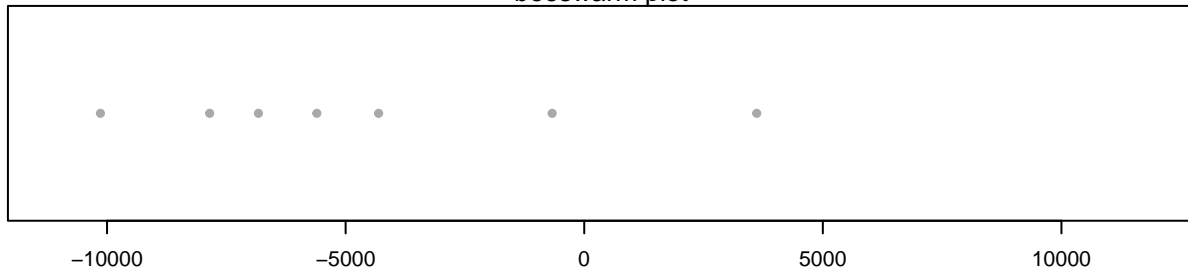


rugplot



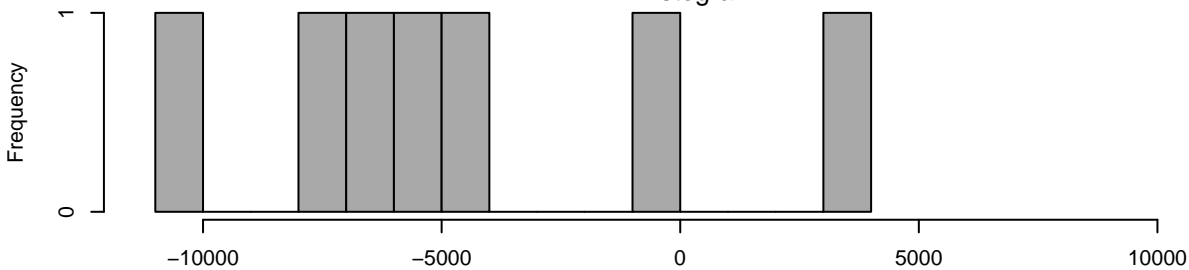
# Nef Mediated CD8 Down-regulation

beeswarm plot



ranked DE score in: x

histogram



ranked DE score in: x

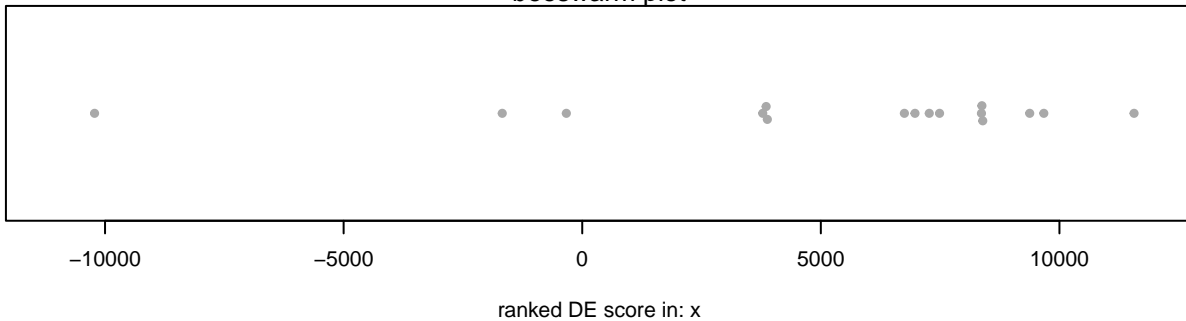
rugplot



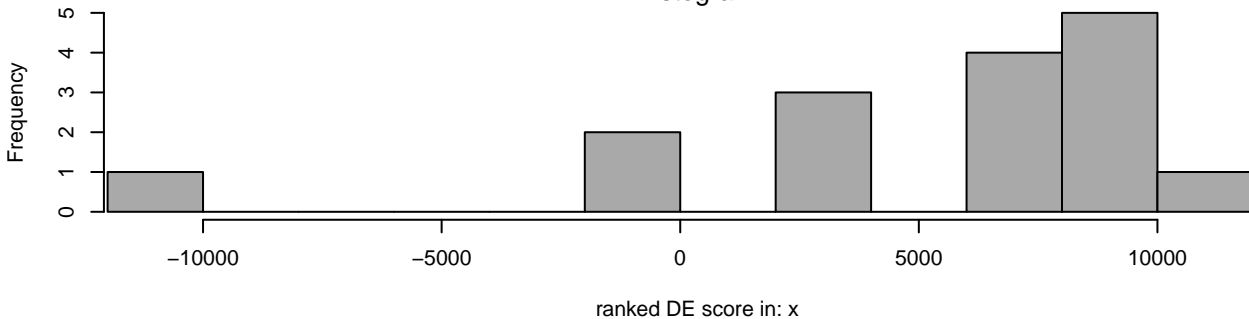
ranked DE score in: x

# Specification of the neural plate border

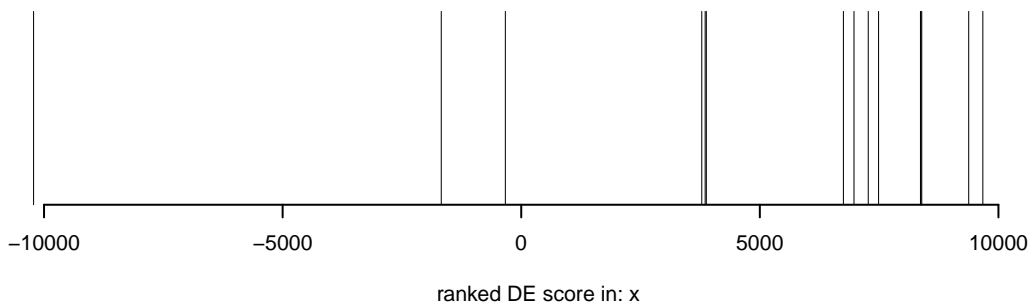
beeswarm plot



histogram



rugplot



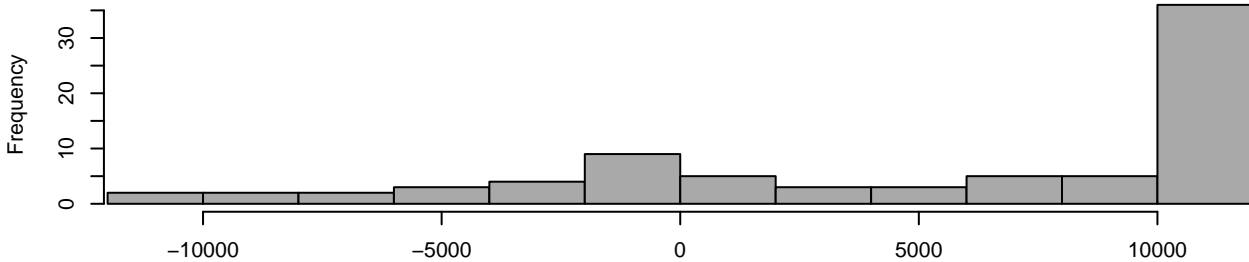
# Antimicrobial peptides

beeswarm plot



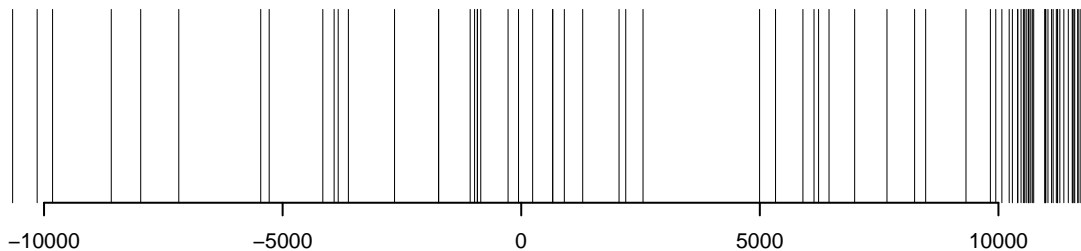
ranked DE score in: x

histogram



ranked DE score in: x

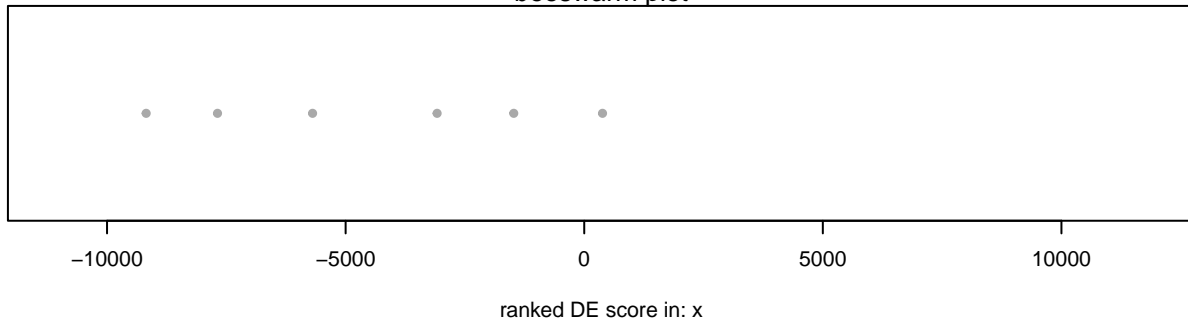
rugplot



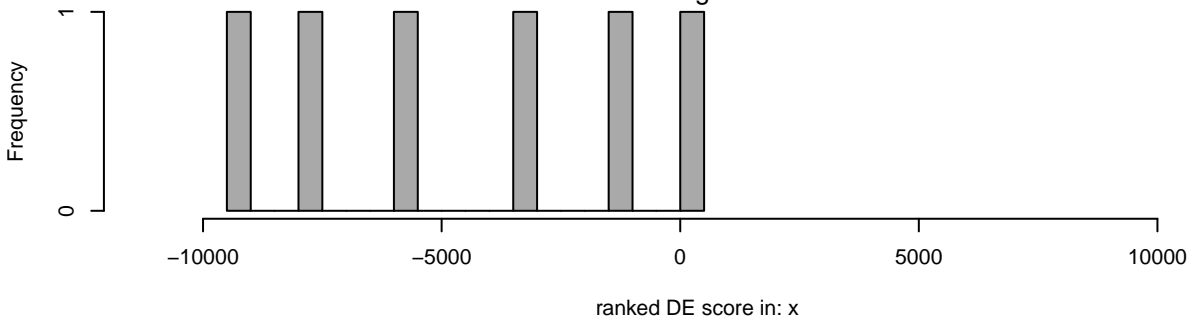
ranked DE score in: x

# CLEC7A/inflammasome pathway

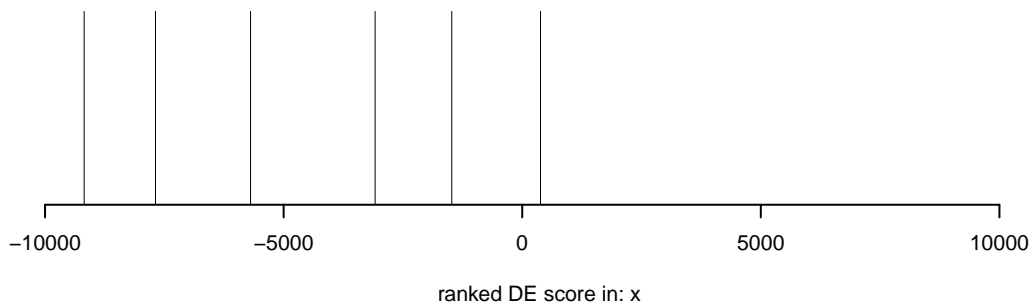
beeswarm plot



histogram



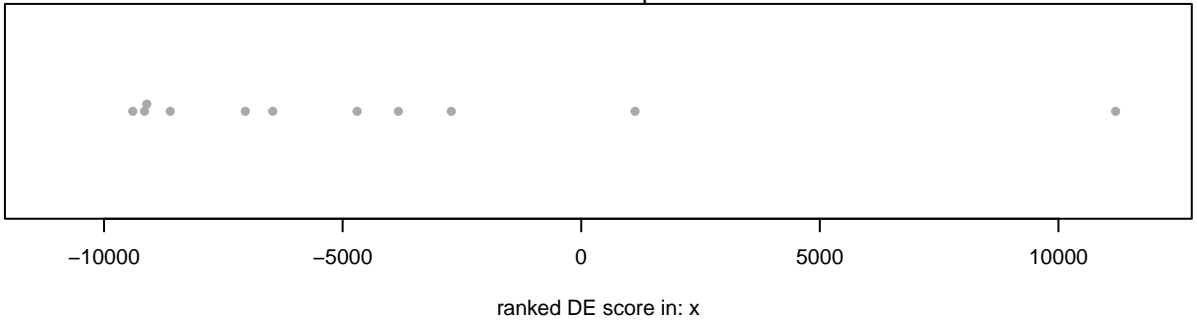
rugplot



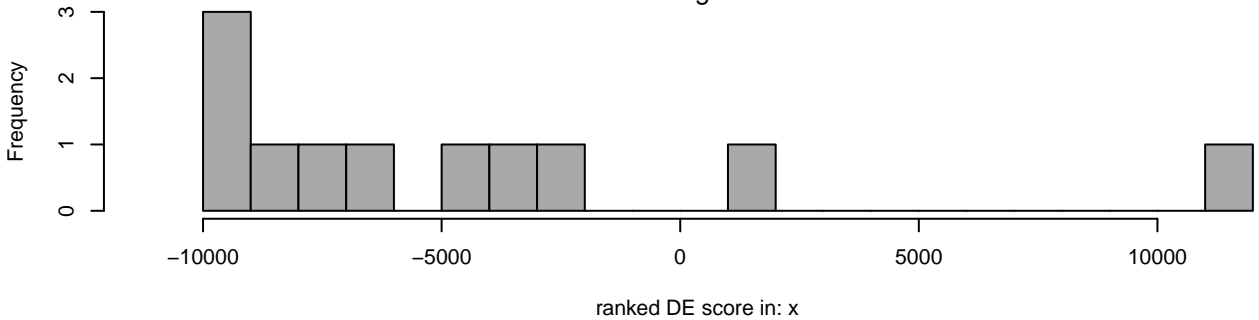


# Activation of the phototransduction cascade

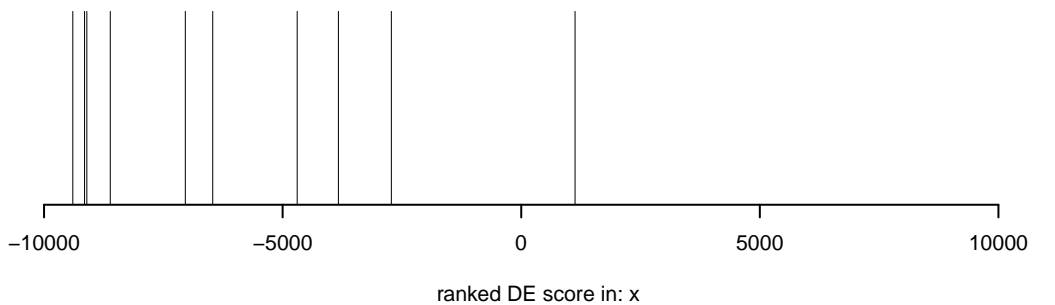
beeswarm plot



histogram

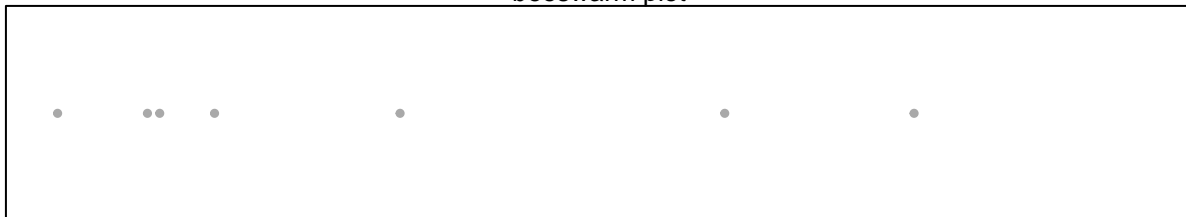


rugplot



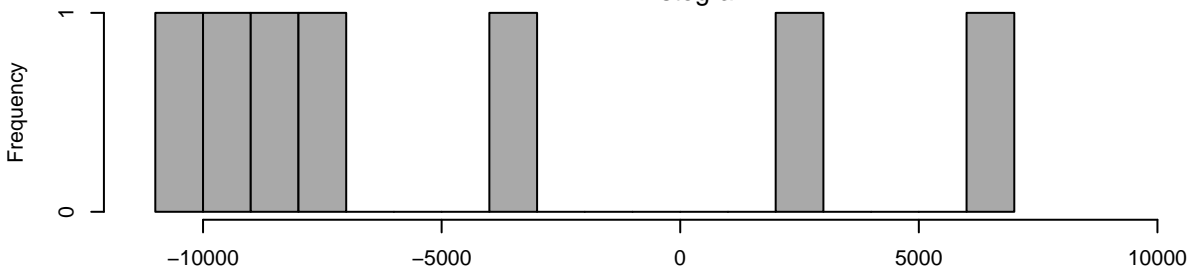
# Epithelial–Mesenchymal Transition (EMT) during gastrulation

beeswarm plot



ranked DE score in: x

histogram



Frequency

ranked DE score in: x

rugplot



-10000

-5000

0

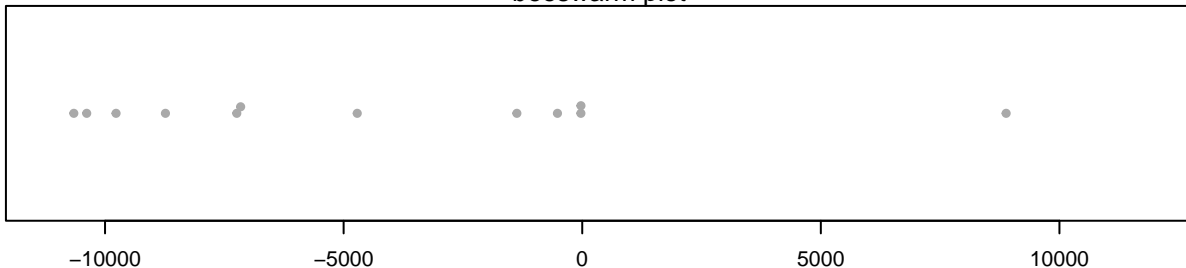
5000

10000

ranked DE score in: x

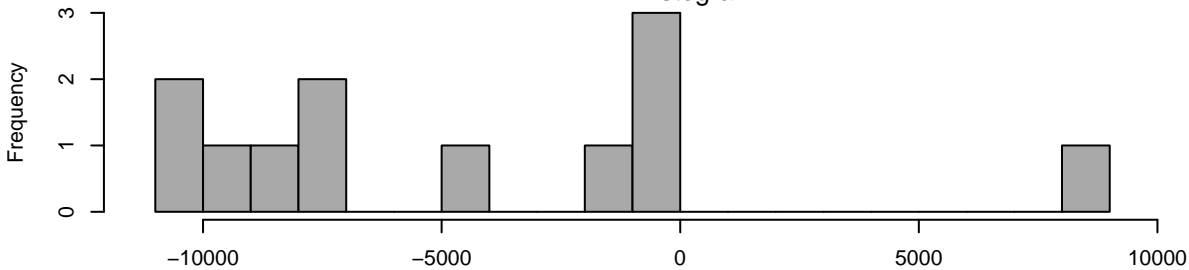
# Reversible hydration of carbon dioxide

beeswarm plot



ranked DE score in: x

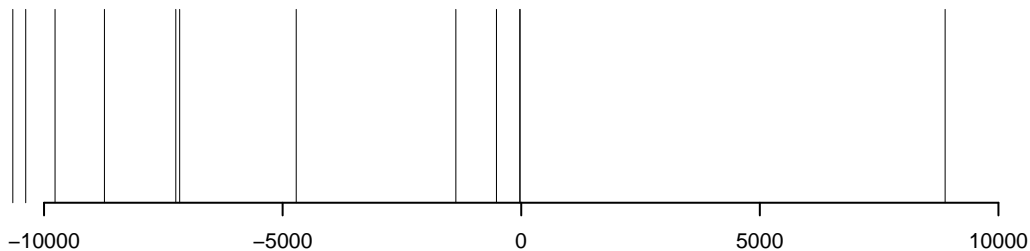
histogram



Frequency

ranked DE score in: x

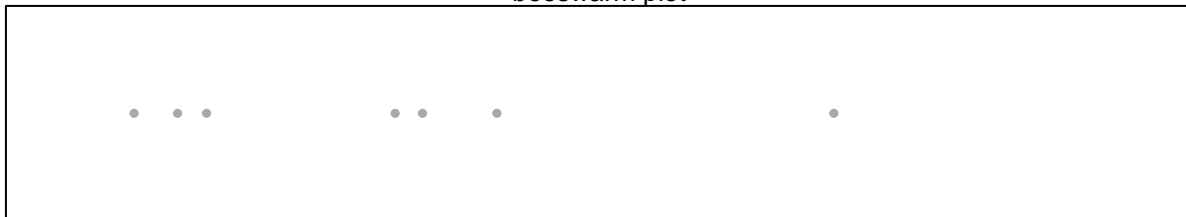
rugplot



ranked DE score in: x

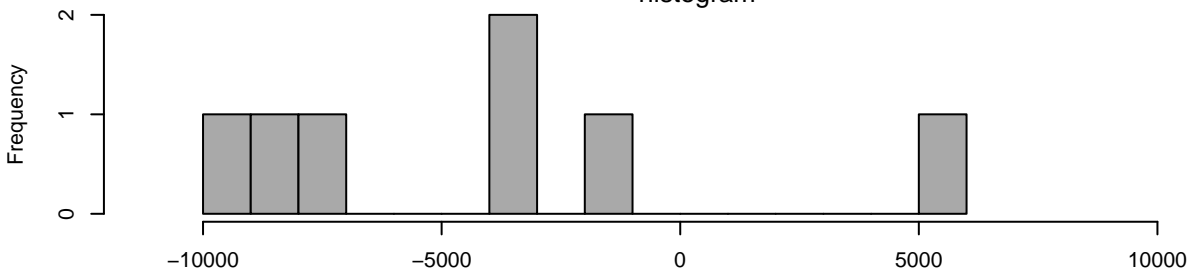
# Loss of MECP2 binding ability to the NCoR/SMRT complex

beeswarm plot



ranked DE score in: x

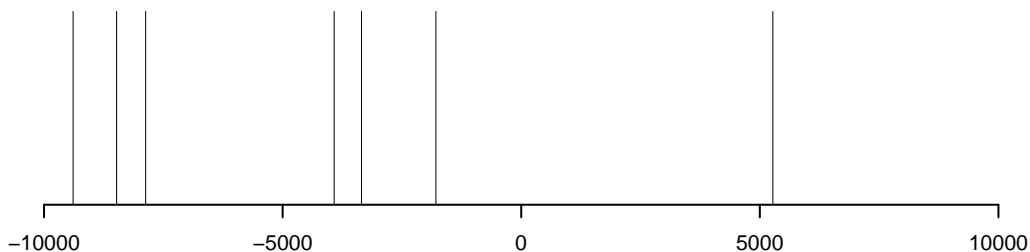
histogram



Frequency

ranked DE score in: x

rugplot



ranked DE score in: x

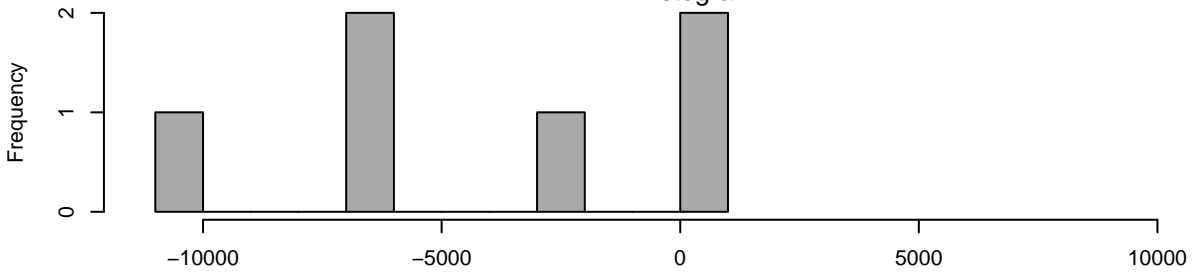
# Negative feedback regulation of MAPK pathway

beeswarm plot



ranked DE score in: x

histogram



ranked DE score in: x

rugplot



ranked DE score in: x