## Plotting prediction outputs

## Initialise environment

```
library(ggplot2)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(stringr)
theme_sv <- theme_bw(base_size = 7, base_family = "Helvetica") +</pre>
  theme(strip.background = element_blank(),
        axis.text.y = element_text(color = "black"),
        axis.text.x = element_text(color = "black"),
        text = element_text(family = "Helvetica"),
        legend.text=element_text(size=7),
        legend.key.size = unit(0.25, "cm"),
        panel.grid = element_blank(),
        panel.border = element_rect(color = "black"))
```

## Read in data and process

## Plot predictions

```
mean(pred_corrs$Pearson.r)
## [1] -0.1613937
max(pred_corrs$Pearson.r)
## [1] 0.1605401
pred_corrs[order(pred_corrs$Pearson.r, decreasing = TRUE),]
##
        Pearson.r
                               tissue
## 29 0.16054006
                          RNA.thyroid
      0.13821309
                           RNA.kidney
## 21
      0.07713746
                        RNA.pituitary
## 18 0.02331026
                            RNA.nerve
## 16 -0.02225651
                             RNA.lung
     -0.02824873
                            RNA.brain
## 23 -0.04629775
                   RNA.salivary_gland
## 8 -0.05401382
                           RNA.breast
## 20 -0.05627263
                         RNA.pancreas
## 17 -0.07230418
                           RNA.muscle
## 12 -0.08190261
                   RNA.fallopian_tube
## 15 -0.10267514
                            RNA.liver
## 13 -0.10508633
                            RNA.heart
## 1 -0.13878299
                   RNA.adipose_tissue
## 2 -0.18461238
                    RNA.adrenal_gland
## 9 -0.18566125
                     RNA.cervix_uteri
## 22 -0.18840678
                         RNA.prostate
## 5 -0.19498981
                     RNA.blood_vessel
## 19 -0.20263888
                            RNA.ovary
## 27 -0.20452899
                          RNA.stomach
     -0.23273535
                            RNA.blood
## 30 -0.25272661
                           RNA.uterus
## 24 -0.26358479
                             RNA.skin
## 3 -0.27572194
                          RNA.bladder
## 11 -0.28039373
                        RNA.esophagus
## 31 -0.32302796
                           RNA. vagina
## 28 -0.33130668
                           RNA.testis
## 26 -0.35370417
                           RNA.spleen
## 25 -0.39616962 RNA.small_intestine
## 6 -0.40114510
                      RNA.bone_marrow
                            RNA.colon
## 10 -0.42321095
ggplot(pred_corrs, aes(x=Pearson.r)) +
  geom_histogram(bins=40) +
  labs(x='Pearson r', y='Count') +
  theme_sv +
  scale_x_continuous(limits=c(-1,1))
```

```
6
4
2
0
-1.0 -0.5 0.0 0.5 1.0
Pearson r
```

