4.Exploration facs data

Fay

2022-10-05

Import data

```
MICE <- read.csv("output_data/MICE.csv")
```

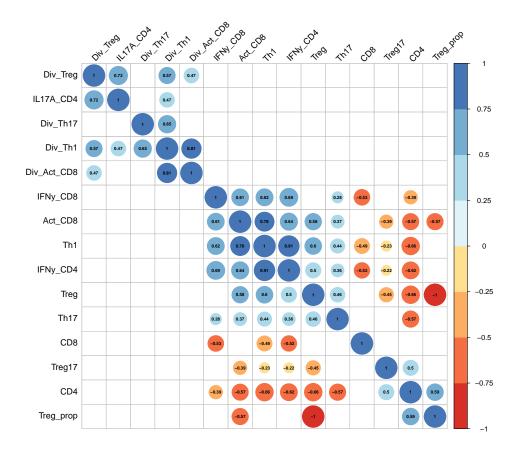
Vectors for selecting cells

Lab data

Correlations between the cells

Corrplot of correlations - Laboratory facs data

Here is a corrplot of the correlations between the cells

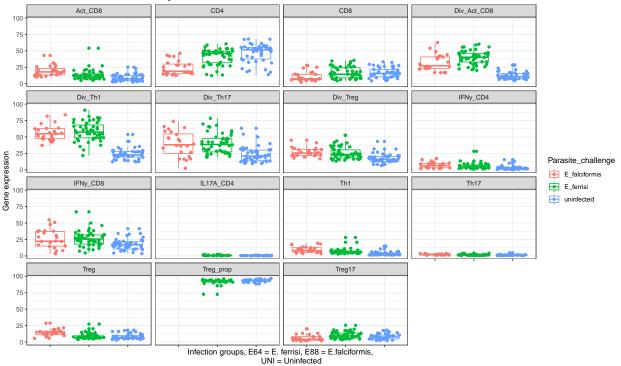


FACS versus infection intensities - laboratory infections

Warning: Removed 762 rows containing non-finite values (stat_boxplot).

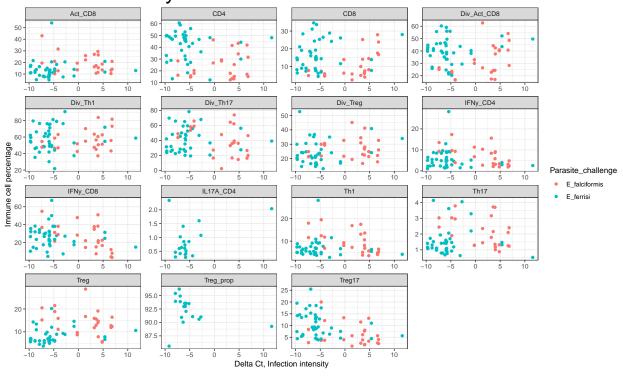
Warning: Removed 762 rows containing missing values (geom_point).

Immune cell percentages in response to infection group, laboratory infections



Warning: Removed 463 rows containing missing values (geom_point).

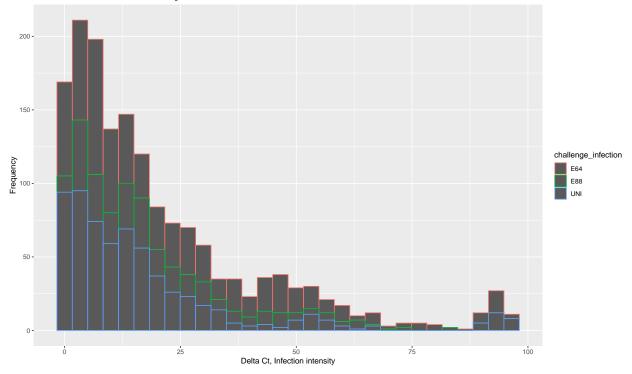
Immune cells in response to infection intensity – laboratory infections



Warning: Ignoring unknown parameters: echo

Warning: Removed 762 rows containing non-finite values (stat_bin).

Immune cells in response to infecting parasite – laboratory infections



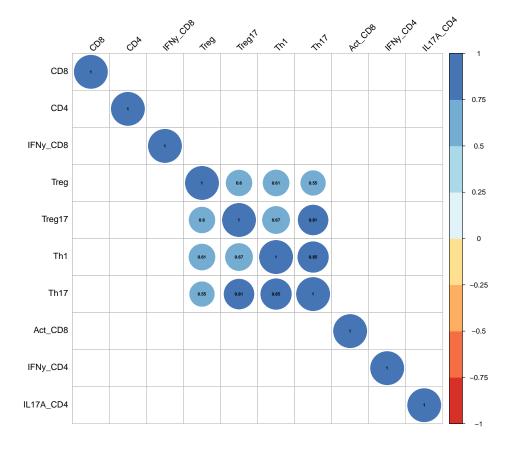
Repeating for field infections

Field data

Correlations between the cells

Corrplot of correlations - Field facs data

Here is a corrplot of the correlations between the cells

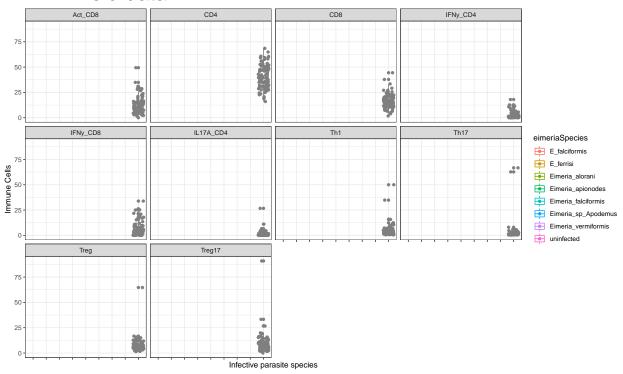


Immune cells versus infection intensities - Field infections

Warning: Removed 18260 rows containing non-finite values (stat_boxplot).

Warning: Removed 18260 rows containing missing values (geom_point).

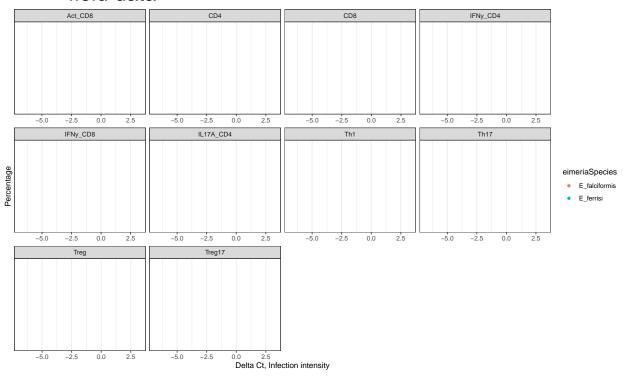
Immune cells in response to parasite species – field data



```
## Warning in min(x): no non-missing arguments to min; returning Inf
## Warning in max(x): no non-missing arguments to max; returning -Inf
## Warning in min(diff(sort(x))): no non-missing arguments to min; returning Inf
## Warning in min(x): no non-missing arguments to min; returning Inf
## Warning in max(x): no non-missing arguments to max; returning -Inf
## Warning in stats::runif(length(x), -amount, amount): NAs produced
```

Warning: Removed 180 rows containing missing values (geom_point).

Immune cells in response to infection intensity – field data



FACS correlations in lab and field data

Corrplot of correlations - Laboratory and field gene expression data

Here is a corrplot of the correlations between the genes.

