main

August 6, 2021

1 Examine permutation based on female sample size

```
[1]: import re
import pandas as pd
from glob import iglob
```

1.1 Main

```
[2]: df = pd.DataFrame()
  for filename in iglob("../../_m/permutation_*/diffExpr_CtrlvsSZ_FDR05.txt"):
        m = re.search("\d+", filename)
        dt = pd.read_csv(filename, sep='\t', index_col=0)
        dt["Permutation"] = m.group(0)
        df = pd.concat([df, dt], axis=0)
        df.to_csv("permutations.csv")
        df.shape
```

[2]: (481, 17)

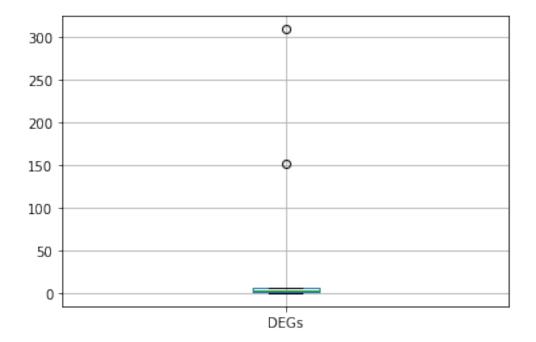
Median: 3.500000

```
[3]: count
               10.000000
    mean
               48.100000
     std
              103.026911
    min
                0.00000
     25%
                1.250000
     50%
                3.500000
     75%
                5.500000
              309.000000
     max
```

Name: DEGs, dtype: float64

```
[4]: xx.boxplot()
```

[4]: <AxesSubplot:>



```
[5]: female = pd.read_csv("../../female_analysis/_m/genes/diffExpr_szVctl_FDR05.

→txt", sep='\t', index_col=0)

print("There are %d DEGs with females!" % female.shape[0])
```

There are 0 DEGs with females!