main

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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_szVctl_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]: (3088, 18)

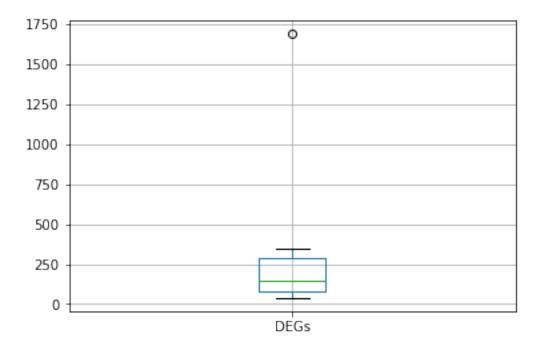
Median: 147.000000

```
[3]: count
                10.000000
     mean
                308.800000
     std
               496.270939
     min
                38.000000
     25%
                75.000000
     50%
               147.000000
     75%
               289.750000
              1688.000000
     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 275 DEGs with females!

[]: