## main

July 14, 2021

## 1 Examine permutation based on female sample size

[2]: (4024, 17)

df.shape

```
[3]: xx = df.groupby("Permutation").size().reset_index().rename(columns={0:"DEGs"})
print("Median: %f" % xx.DEGs.median())
xx.DEGs.describe()
```

Median: 136.500000

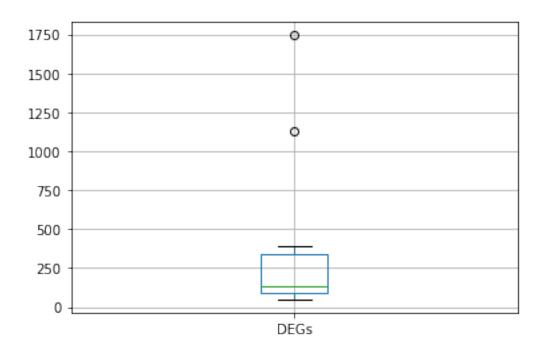
df = pd.concat([df, dt], axis=0)

df.to\_csv("permutations.csv")

```
[3]: count
                10.000000
    mean
               402.400000
     std
               571.606158
    min
                48.000000
     25%
                89.000000
     50%
               136.500000
     75%
               340.750000
              1744.000000
     max
     Name: DEGs, dtype: float64
```

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

[4]: <AxesSubplot:>



There are 922 DEGs with females!

[]: