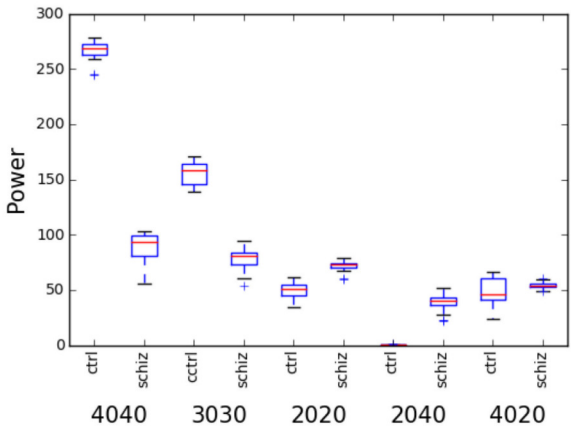
0.1.2 Instantiating the model

```
In [3]: test_model = VierlingSimpleModelRobust(controlparams,schizparams,seeds)
```

0.1.3 Run simulations

```
In [4]: print 'Run simulations (this might take 15-20 minutes)'
        print '\n 4040'
        mcontrol4040,mschiz4040,control4040,schiz4040 =
        test_model.produce_4040_plus()
        print '\n 3030'
        mcontrol3030,mschiz3030,control3030,schiz3030 =
        test_model.produce_3030_plus()
        print '\n 2020'
        mcontrol2020,mschiz2020,control2020,schiz2020 =
        test_model.produce_2020_plus()
        print '\n 2040'
        mcontrol2040,mschiz2040,control2040,schiz2040 =
        test_model.produce_2040_plus()
        print '\n 4020'
        mcontrol4020,mschiz4020,control4020,schiz4020 =
        test_model.produce_4020_plus()
```

(a) Create model instances and run simulation



(b) Boxplot of model data

```
In [11]: t4040,p4040 = ttest_ind(control4040,schiz4040)
         t3030,p3030 = ttest_ind(control3030,schiz3030)
         t2020,p2020 = ttest_ind(control2020,schiz2020)
         t2040,p2040 = ttest_ind(control2040,schiz2040)
         t4020,p4020 = ttest_ind(control4020,schiz4020)
         print '40Hz power at 40Hz drive: F=',t4040,'p=',p4040
         print '30Hz power at 30Hz drive: F=',t3030,'p=',p3030
         print '20Hz power at 20Hz drive: F=',t2020,'p=',p2020
         print '20Hz power at 40Hz drive: F=',t2040,'p=',p2040
         print '40Hz power at 20Hz drive: F=',t4020,'p=',p4020

40Hz power at 40Hz drive: F= 51.8698283512 p= 7.00615973185e-37
30Hz power at 30Hz drive: F= 23.4080401139 p= 3.545942616e-24
20Hz power at 20Hz drive: F= -11.3292852332 p= 9.5206066581e-14
20Hz power at 40Hz drive: F= -19.198563914 p= 3.72735850992e-21
40Hz power at 20Hz drive: F= -2.08532975168 p= 0.0438080382856
```

(c) Statistical analysis of model data