```
In [1]: import sys,os
        sys.path.insert(1, os.path.join(sys.path[0], '..'))
        from IPython_generator import IPythonNotebookGenerator
        current_path = '../dataset/MG caiT'
        path_ext = os.path.split(current_path)[1]
        current path = os.path.abspath(current path)
        print 'data path (abs) : ', current_path
res_folder = os.path.join('./',path_ext)
         res folder = os.path.abspath(res folder)
        print 'res_folder path (abs output) : ', res_folder
        prev path="/home/xsong/coliSurvivalAnalysis/xsong/Microfluidics Database/'
        prev path = os.path.abspath(prev path)
        print "prev_path (abs) : ", prev_path
        python_class_path = "../"
        python_class_path = os.path.abspath(python_class_path)
               "python class path (abs) : ", python_class_path
        alcohol_time = "120"
        cutoff="CheckReplication.cutoff31"
        cutoff="-1"
        use_mg_wt = True
        if use mg wt:
            MG WT path = '../dataset/MG-WT'
             MG WT path = os.path.abspath(MG WT path)
        data path (abs) : /home/xsong/mg-wt/dataset/MG caiT
        res folder path (abs output) : /home/xsong/mg-wt/demo/MG caiT
        prev path (abs) : /home/xsong/coliSurvivalAnalysis/xsong/Microfluidics Da
        tabase
        python class path (abs) : /home/xsong/mg-wt
```

### Preprocessing, check file duplication, generate new list

# .tab files in replicate group in finalFiles.txt TAB Analyzer

```
In [4]: #---Demo--- TAB processing auto generator and execution
    #data_path = '/Users/songxiaohu/Desktop/githubYfan/PIMortalityAnalysis/xsong
    filter_path = os.path.join(current_path+'/'+'report','finalFiles.txt')#'/Us
    oPath = os.path.join(res_folder,'run-TAB')
    nbGenerator = IPythonNotebookGenerator(filterPath=filter_path,outputPath=oPath ffn_parent_path for non relative path in the filter file path
    ffn_parent_path=current_path#'/Users/songxiaohu/Desktop/githubYfan/PIMortal.
    nbGenerator.run_TAB_PIP(python_class_path,alcohol_time,ffn_parent_path)

Initialization of Ipython auto generator
    ---Ipython code generation process---
    /home/xsong/mg-wt/demo/MG caiT/run-TAB/MG caiT-1.ipynb

In [5]: IPythonNotebookGenerator.execute(oPath)
    ---Execute ipython code---
    --Execute -- /home/xsong/mg-wt/demo/MG caiT/run-TAB/MG caiT-1.ipynb
```

# generate Mortality Distribution ipython file, modify the input in the file

#### **Check Replication**

```
In [9]: IPythonNotebookGenerator.execute(oPath)
         ---Execute ipvthon code---
         --Execute-- /home/xsong/mg-wt/demo/MG caiT/run-CR/Check replication.ipynb
         CalledProcessError
                                                      Traceback (most recent call last
        <ipython-input-9-765ee562b514> in <module>()
         ----> 1 IPythonNotebookGenerator.execute(oPath)
         /home/xsong/mg-wt/IPython_generator.pyc in execute(folder_path, filterName
             352
                          paths = IPythonNotebookGenerator.listFilesFromFolder(folde
             353
         r_path)
         --> 354
                          IPythonNotebookGenerator.callPython(paths,filterNames)
             355
                     @staticmethod
             356
         /home/xsong/mg-wt/IPython generator.pyc in callPython(paths, filterList)
                         for p in path filtered:
             574
             575
                              print "--Execute-- ".p
         --> 576
                              IPythonNotebookGenerator.runIpython(p)
             577
         /home/xsong/mg-wt/IPython generator.pyc in runIpython(path)
             547
                     def runIpython(path):
                          import subprocess
                         p = subprocess.check call(['jupyter' ,'nbconvert', '--exec
         ute', '--inplace','--ExecutePreprocessor.timeout=-1',path])
                         if p:
             550
             551
                              print "Raise Call Error: ", path
         /home/xsong/miniconda2/lib/python2.7/subprocess.pyc in check_call(*popenar
         gs, **kwarqs)
             188
                          if cmd is None:
             189
                              cmd = popenargs[0]
                          raise CalledProcessError(retcode, cmd)
            190
             191
                     return 0
             192
        CalledProcessError: Command '['jupyter', 'nbconvert', '--execute', '--inpl
ace', '--ExecutePreprocessor.timeout=-1', '/home/xsong/mg-wt/demo/MG caiT/
         run-CR/Check_replication.ipynb']' returned non-zero exit status 1
```

#### **GG GGM Selector**

http://localhost:8888/notebooks/demo-generateI...