```
In [1]: import sys,os
        sys.path.insert(1, os.path.join(sys.path[0], '..'))
         from IPython_generator import IPythonNotebookGenerator
        current_path = '../dataset/MS2 for GitHub Updated 26.05.2019/flu'
        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/MS2 for GitHub Updated 26.05.
        2019/flu
        res folder path (abs output) : /home/xsong/mg-wt/demo/flu
        prev path (abs) : /home/xsong/coliSurvivalAnalysis/xsong/Microfluidics Da
        python class path (abs) : /home/xsong/mg-wt
```

Preprocessing, check file duplication, generate new list

```
In [2]: #---Demo---Preprocessing auto generator and execution, modify the generated
    #Veryfy inside the code, the good paths are set for the current dataset and
    oPath = os.path.join(res_folder,'run-PRE')
    filter_file_path =''#'/Users/songxiaohu/Desktop/githubYfan/PIMortalityAnaly.
    selfFilter = 'True'
    IPythonNotebookGenerator.run_PRE(python_class_path,oPath, current_path,prev_
    /home/xsong/mg-wt/demo/flu/run-PRE
In [3]: IPythonNotebookGenerator.execute(oPath)
    ---Execute ipython code---
    --Execute ipython code---
    --Execute-- /home/xsong/mg-wt/demo/flu/run-PRE/Preprocessing.ipynb
```

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

1 of 3 7/17/19, 2:37 PM

```
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=oPx
    #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/flu/run-TAB/flu-1.ipynb
    /home/xsong/mg-wt/demo/flu/run-TAB
In [5]: IPythonNotebookGenerator.execute(oPath)

---Execute ipython code---
--Execute -- /home/xsong/mg-wt/demo/flu/run-TAB/flu-1.ipynb
```

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

Check Replication

GG GGM Selector

2 of 3 7/17/19, 2:37 PM

```
In [10]: oPath = os.path.join(res folder, 'run-SELECTOR')
          data_folder_path = current_path
         IPythonNotebookGenerator.run SELECTOR(python class path,oPath,data folder po
         /home/xsong/mg-wt/demo/flu/run-SELECTOR
In [11]: IPvthonNotebookGenerator.execute(oPath)
         ---Execute ipython code---
         --Execute-- /home/xsong/mg-wt/demo/flu/run-SELECTOR/GG_GGM_Selector.ipynb
         CalledProcessError
                                                      Traceback (most recent call last
         )
         <ipython-input-11-765ee562b514> in <module>()
         ---> 1 IPythonNotebookGenerator.execute(oPath)
         /home/xsong/mg-wt/IPython generator.pyc in execute(folder path, filterName
              352
                          paths = IPvthonNotebookGenerator.listFilesFromFolder(folde)
              353
          r path)
          --> 354
                          IPythonNotebookGenerator.callPython(paths,filterNames)
              355
              356
                      @staticmethod
         /home/xsong/mg-wt/IPython_generator.pyc in callPython(paths, filterList)
                          for p in path filtered:
                               print "--Execute-- ",p
              575
          --> 576
                               IPythonNotebookGenerator.runIpython(p)
              577
              578
         /home/xsong/mg-wt/IPython generator.pyc in runIpython(path)
              547
                      def runIpython(path):
              548
                          import subprocess
          --> 549
                          p = subprocess.check_call(['jupyter' ,'nbconvert', '--exec
         ute', '--inplace', '--ExecutePreprocessor.timeout=-1',path])
                          if p:
              550
                               print "Raise Call Error: ", path
              551
         /home/xsong/miniconda2/lib/python2.7/subprocess.pyc in check call(*popenar
         gs, **kwargs)
              188
                          if cmd is None:
              189
                              cmd = popenargs[0]
                          raise CalledProcessError(retcode, cmd)
          --> 190
             191
                      return 0
         CalledProcessError: Command '['jupyter', 'nbconvert', '--execute', '--inpl
ace', '--ExecutePreprocessor.timeout=-1', '/home/xsong/mg-wt/demo/flu/run-
         SELECTOR/GG GGM Selector.ipynb']' returned non-zero exit status 1
In [ ]:
 In [ ]:
```

3 of 3 7/17/19, 2:37 PM