**DIGRE Website Test Report**

12/09/16

1. **Introduction**

This document is the smoking test report of the “DIGRE model” website updated at 12/09/16.

1. **Test summary**

Functions of each page were tested. No failure was found.

1. **Test plan**
   1. Home page appearance
   2. Home page hidden text exhibition
   3. Online Analysis page jump
   4. Online Analysis page appearance
   5. Online Analysis page hidden text exhibition
   6. Online Analysis page gene expression data example exhibition
   7. Online Analysis page gene expression data example download
   8. Online Analysis page dose data example exhibition
   9. Online Analysis page dose data example download
   10. Online Analysis gene connectivity drop-down list
   11. Online Analysis connectivity data hide and exhibition
   12. Online Analysis page connectivity data example exhibition
   13. Online Analysis page error report – no gene expression data
   14. Online Analysis page error report – gene expression data wrong file format
   15. Online Analysis page error report – gene expression data oversize file
   16. Online Analysis page error report – no dose data
   17. Online Analysis page error report – dose data wrong file format
   18. Online Analysis page error report – no connectivity data
   19. Online Analysis page error report – connectivity data wrong file format
   20. Online Analysis job submit
   21. Online Analysis job result e-mail alert
   22. Online Analysis result download
   23. Download page jump
   24. Download page appearance
   25. Download page command line tool download
   26. Download page R package link
2. **Test results**
   1. Test case 1

*Name:* Home page appearance

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination” in browser.
* *Step 2:* Close the browser

*Expected Result:* The head picture “Computational Models to Identify Effective Multi-drug Therapies”, the navigation bar, the introduction and the “work flow chart” show up in the page.

*Real Result:* The head picture “Computational Models to Identify Effective Multi-drug Therapies”, the navigation bar, the introduction and the “work flow chart” show up in the page.

*Status:* Pass

* 1. Test case 2

*Name:* Home page hidden text exhibition

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination” in browser.
* *Step 2:* Click on the “Detail…” tab.
* *Step 3:* Close browser.

*Expected Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/index.php”, with detailed introduction displayed.

*Real Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/index.php”, with detailed introduction displayed.

*Status:* Passed

* 1. Test case 3

*Name:* Online Analysis page jump

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination” in browser.
* *Step 2:* Click on the “ONLINE ANALYSIS” tab in the navigation bar.
* *Step 3:* Close browser.

*Expected Result:* Page jump from “http://qbrc2.swmed.edu/drugcombination/index.php” to “http://qbrc2.swmed.edu//drugcombination/onlineAnalysis.php”, and display content in the page.

*Real Result:* Page jump from “http://qbrc2.swmed.edu/drugcombination/index.php” to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, and display content in the page.

*Status:* Passed

* 1. Test case 4

*Name:* Online Analysis page appearance

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Close browser.

*Expected Result:* The head picture “Computational Models to Identify Effective Multi-drug Therapies”, navigation bar, DIGRE input introduction, contact information form and DIGRE input file upload box displayed in the page.

*Real Result:* The head picture “Computational Models to Identify Effective Multi-drug Therapies”, navigation bar, DIGRE input introduction, contact information form and DIGRE input file upload box displayed in the page.

*Status:* Passed

* 1. Test case 5

*Name:* Online Analysis page hidden text exhibition

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Detailed Instruction” tab.
* *Step 3:* Close browser.

*Expected Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with detailed DIGRE input instruction displayed.

*Real Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with detailed DIGRE input instruction displayed.

*Status:* Passed

* 1. Test case 6

*Name:* Online Analysis page gene expression data example exhibition

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Example and Detail” tab next to the gene expression data.
* *Step 3:* Close browser.

*Expected Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with new window pop up displaying the example of gene expression data.

*Real Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with new window pop up displaying the example of gene expression data.

*Status:* Passed

* 1. Test case 7

*Name:* Online Analysis page gene expression data example download

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Example and Detail” tab next to the gene expression data.
* *Step 3:* Click on the download icon next to the example.
* *Step 4:* Close browser.

*Expected Result:* Download window pops up with file “sampleInput.csv”.

*Real Result:* Download window pops up with file “sampleInput.csv”.

*Status:* Passed

* 1. Test case 8

*Name:* Online Analysis page dose data example exhibition

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Example and Detail” tab next to the dose data.
* *Step 3:* Close browser.

*Expected Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with new window pops up displaying the example of dose data.

*Real Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with new window pops up displaying the example of dose data.

*Status:* Passed

* 1. Test case 9

*Name:* Online Analysis page dose data example download

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Example and Detail” tab next to the dose data.
* *Step 3:* Click on the download icon next to the example.
* *Step 4:* Close browser.

*Expected Result:* Download window pops up with file “doseInput.csv”.

*Real Result:* Download window pops up with file “doseInput.csv”.

*Status:* Passed

* 1. Test case 10

*Name:* Online Analysis gene connectivity drop-down list

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on gene connectivity drop-down box.
* *Step 3:* Close browser.

*Expected Result:* Drop-down list displays “KEGG Pathway” and “Gene Network” two options.

*Real Result:* Drop-down list displays “KEGG Pathway” and “Gene Network” two options.

*Status:* Passed.

* 1. Test case 11

*Name:* Online Analysis connectivity data hide and exhibition

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on gene connectivity drop-down box, and select “Gene Network”.
* *Step 3:* Close browser.

*Expected Result:* Hidden connectivity data upload function shows upon choosing “Gene Network” options.

*Real Result:* Hidden connectivity data upload function shows upon choosing “Gene Network” options.

*Status:* Passed.

* 1. Test case 12

*Name:* Online Analysis page connectivity data example exhibition

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on gene connectivity drop-down box, and select “Gene Network”.
* *Step 2:* Click on “Example and Detail” tab next to the connectivity data.
* *Step 3:* Close browser.

*Expected Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with new window pops up displaying the example of connectivity data.

*Real Result:* Page stay in the “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php”, with new window pops up displaying the example of connectivity data.

*Status:* Passed

* 1. Test case 13

*Name:* Online Analysis page error report – no gene expression data

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the dose data, and choose dose file in a local path.
* *Step 3:* Input correct verification code.
* *Step 4:* Click on “submit” button.
* *Step 5:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu//drugcombination/onlineAnalysis.php?isNoDataFile=1&isNoDoseFile=0”. Warning message “Please upload sample data file.” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu//drugcombination/onlineAnalysis.php?isNoDataFile=1&isNoDoseFile=0”. Warning message “Please upload sample data file.” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 14

*Name:* Online Analysis page error report – gene expression data wrong file format

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a non-csv file in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose dose file in a local path.
* *Step 4:* Input correct verification code.
* *Step 5:* Click on “submit” button.
* *Step 6:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isFileTypeNotGood=1&isFileSizeNotGood=0&isDoseFileTypeNotGood=0”. Warning message “Please upload CSV sample data file.” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isFileTypeNotGood=1&isFileSizeNotGood=0&isDoseFileTypeNotGood=0”. Warning message “Please upload CSV sample data file.” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 15

*Name:* Online Analysis page error report – gene expression data oversize file

*Scenario:* xx

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a csv file bigger than 10MB in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose dose file in a local path.
* *Step 4:* Input correct verification code.
* *Step 5:* Click on “submit” button.
* *Step 6:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isFileTypeNotGood=0&isFileSizeNotGood=1&isDoseFileTypeNotGood=0”. Warning message “Sample data file size too big!” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isFileTypeNotGood=0&isFileSizeNotGood=1&isDoseFileTypeNotGood=0”. Warning message “Sample data file size too big!” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 16

*Name:* Online Analysis page error report – no dose data

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose gene expression file in a local path.
* *Step 3:* Input correct verification code.
* *Step 4:* Click on “submit” button.
* *Step 5:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isNoDataFile=0&isNoDoseFile=1”. Warning message “Please upload dose data file.” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isNoDataFile=0&isNoDoseFile=1”. Warning message “Please upload dose data file.” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 17

*Name:* Online Analysis page error report – dose data wrong file format

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the dose data, and choose a non-csv file in a local path.
* *Step 3:* Click on “Choose a file …” next to the gene expression data, and choose gene expression file in a local path.
* *Step 4:* Input correct verification code.
* *Step 5:* Click on “submit” button.
* *Step 6:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isFileTypeNotGood=0&isFileSizeNotGood=0&isDoseFileTypeNotGood=1”. Warning message “Please upload CSV dose data file.” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isFileTypeNotGood=0&isFileSizeNotGood=0&isDoseFileTypeNotGood=1”. Warning message “Please upload CSV dose data file.” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 18

*Name:* Online Analysis page error report – no connectivity data

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a gene expression file in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose a dose file in a local path.
* *Step 4:* Click on gene connectivity box, and choose “Gene network” option in the drop-down list.
* *Step 5:* Input correct verification code.
* *Step 6:* Click on “submit” button.
* *Step 7:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isNoNetworkfile=1”. Warning message “Please upload gene connectivity data file.” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isNoNetworkfile=1”. Warning message “Please upload gene connectivity data file.” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 19

*Name:* Online Analysis page error report – connectivity data wrong file format

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a gene expression file in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose a dose file in a local path.
* *Step 4:* Click on gene connectivity box, and choose “Gene network” option in the drop-down list.
* *Step 5:* Click on “Choose a file …” next to the connectivity data, and choose a non-csv gene network file in a local path.
* *Step 6:* Input correct verification code.
* *Step 7:* Click on “submit” button.
* *Step 8:* Close browser.

*Expected Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isNetWorkFileSizeNotGood=0&isNetworkFileTypeNotGood=1”. Warning message “Please upload CSV gene connectivity data file.” displays below the gene connectivity input box.

*Real Result:* Page jumps to “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php?isNetWorkFileSizeNotGood=0&isNetworkFileTypeNotGood=1”. Warning message “Please upload CSV gene connectivity data file.” displays below the gene connectivity input box.

*Status:* Passed

* 1. Test case 20

*Name:* Online Analysis job submit

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a gene expression file in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose a dose file in a local path.
* *Step 4:* Click on gene connectivity box, and choose “Gene network” option in the drop-down list.
* *Step 5:* Click on “Choose a file …” next to the connectivity data, and choose a gene network file in a local path.
* *Step 6:* Input correct verification code.
* *Step 7:* Click on “submit” button.
* *Step 8:* Wait about 30 second for the website to show the result.
* *Step 8:* Close browser.

*Expected Result:* Page first jumps to the waiting page “http://qbrc2.swmed.edu/ drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]”, after the analysis is done, page jumps to the result page “http://qbrc2.swmed.edu/drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]” with heatmap and bar plot displayed.

*Real Result:* Page first jumps to the waiting page “http://qbrc2.swmed.edu/ drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]”, after the analysis is done, page jumps to the result page “http://qbrc2.swmed.edu/drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]” with heatmap and bar plot displayed.

*Status:* Passed

* 1. Test case 21

*Name:* Online Analysis job submit

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a gene expression file in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose a dose file in a local path.
* *Step 4:* Click on gene connectivity box, and choose “Gene network” option in the drop-down list.
* *Step 5:* Click on “Choose a file …” next to the connectivity data, and choose a gene network file in a local path.
* *Step 6:* Input correct verification code.
* *Step 7:* Click on “submit” button.
* *Step 8:* Wait about 30 second for the website to show the result.
* *Step 8:* Close browser.

*Expected Result:* Page first jumps to the waiting page “http://qbrc2.swmed.edu/ drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]”, after the analysis is done, page jumps to the result page “http://qbrc2.swmed.edu/drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]” with heatmap and bar plot displayed. Email alert received when job is done.

*Real Result:* Page first jumps to the waiting page “http://qbrc2.swmed.edu/ drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]”, after the analysis is done, page jumps to the result page “http://qbrc2.swmed.edu/drugcombination/onlineAnalysisResult.php?jobid=[unique\_jobid]” with heatmap and bar plot displayed. Email alert received when job is done.

*Status:* Passed

* 1. Test case 22

*Name:* Online Analysis result download

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/onlineAnalysis.php” in browser.
* *Step 2:* Click on “Choose a file …” next to the gene expression data, and choose a gene expression file in a local path.
* *Step 3:* Click on “Choose a file …” next to the dose data, and choose a dose file in a local path.
* *Step 4:* Click on gene connectivity box, and choose “Gene network” option in the drop-down list.
* *Step 5:* Click on “Choose a file …” next to the connectivity data, and choose a gene network file in a local path.
* *Step 6:* Input correct verification code.
* *Step 7:* Click on “submit” button.
* *Step 8:* Wait about 30 second for the website to show the result.
* *Step 9:* Click on the download button in the bottom of the page.
* *Step 8:* Close browser.

*Expected Result:* Download window pops up with file “result.csv”.

*Real Result:* Download window pops up with file “result.csv”.

*Status:* Passed

* 1. Test case 23

*Name:* Download page jump

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination” in browser.
* *Step 2:* Click on the “DOWNLOAD” tab in the navigation bar.
* *Step 3:* Close browser.

*Expected Result:* Page jump from “http://qbrc2.swmed.edu/drugcombination/index.php” to “http://qbrc2.swmed.edu/drugcombination/download.php”, and display content in the page.

*Real Result:* Page jump from “http://qbrc2.swmed.edu/drugcombination/index.php” to “http://qbrc2.swmed.edu/drugcombination/download.php”, and display content in the page.

*Status:* Passed

* 1. Test case 24

*Name:* Download page appearance

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/download.php” in browser.
* *Step 2:* Close browser.

*Expected Result:* A table presenting the downloadable resource displayed in the page.

*Real Result:* A table presenting the downloadable resource displayed in the page.

*Status:* Passed

* 1. Test case 25

*Name:* Download page command line tool download

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu/drugcombination/download.php” in browser.
* *Step 2:* Click on the download icon in the command line tool row.
* *Step 3:* Close browser.

*Expected Result:* Download window pops up with file “DIGREsyn-Rscript\_1.0.tar.gz”.

*Real Result:* Download window pops up with file “DIGREsyn-Rscript\_1.0.tar.gz”.

*Status:* Passed

* 1. Test case 26

*Name:* Download page R package link

*Scenario:*

* *Step 1:* Open “http://qbrc2.swmed.edu//drugcombination/download.php” in browser.
* *Step 2:* Click on the download icon in the R package row.
* *Step 3:* Close browser.

*Expected Result:* New page “<http://github.com/Minzhe/DIGREsyn>” opens.

*Real Result:* New page “<http://github.com/Minzhe/DIGREsyn>” opens.

*Status:* Passed