Rembrandt – Release 1.5.5

Summary Test Report

# Test Overview

## Executive Summary

This test report summarizes the system and regression testing efforts for the Rembrandt version 1.5.5 Release on STAGE tier and following tasks were completed.

* Verified **14** Feature Requests from the release scope. Of which **12** feature requests were implemented successfully and **2** were still open and move them to fix in the next release.
* Verified **14** existing bugs and **all** of them are Verified in STAGE and Closed in GForge.
* Identified **6** new defects in STAGE tier and documented them in GForge. Of which **1** resolved and **5** of them planned to resolve them in next release.
* Verified **50** bugs identified in QA tier during all 7 iterations of the release. Of which **41** defects were closed and **9** of them were open. Disposition for open items to fix them in next release.
* A total of **41** functional test cases were executed in STAGE environment.
* QA Team executed total o**f 118** test cases of whic**h 41** functional test cases an**d 77** regression test cases**. 111** test cases were Passed successfully an**d** **7** test cases were failed due to existing issues.
* During system and regression testing on STAGE tier, QA team verified total of **79** GForge items.

## Scope

This document is the Test Evaluation Summary for Rembrandt version 1.5.5. It compares the planned testing strategy and approach to the actual strategy and execution that QA Team used to validate the quality of this product prior to release.

The scope of Rembrandt Release 1.5.5 as follows:

| **GForge ID** | **Description** | **Type** | **Status** |
| --- | --- | --- | --- |
| 5645 | (Misc. New Features) Look into added functionality of sending emails to user when a query is finished for inbox. This may be out of scope until we have many more samples. | Feature Request | Closed |
| 5677 | (2.0) add a &quot;vs. rest of samples&quot; option | Feature Request | Closed |
| 6154 | Clinical Report display actual survival months | Feature Request | Closed |
| 11700 | re-resections set - An option for the user to filter and view the recurrence | Feature Request | Closed |
| 17783 | Advance Query Reports - Make the report more user friendly (Provide tool tip) | Feature Request | Closed |
| 19875 | Gene Alias validation - without clicking the 'check alias' | Feature Request | Closed |
| 21707 | Web genome performance issues - warning messages | Feature Request | Open |
| 23351 | Ability to Hide/Display Groups on KM Plot | Feature Request | Closed |
| 24337 | SNP Query performance | Feature Request | Closed |
| 24436 | Query no of resections in Rembrandt | Feature Request | Closed |
| 26120 | Option to Exclude Resections | Feature Request | Closed |
| 26121 | KM Plot & Resections | Feature Request | Closed |
| 26122 | Increase Size of Gene Entry Area | Feature Request | Closed |
| 27142 | Improve runtime error checking in Rembrandt to capture caArray Download status | Feature Request | Open |
| 5382 | The censor status in BRB archive file need to be updated | Bug | Closed |
| 16650 | Gene Expression data, karnofsky scores etc not displayed in the tag is RBT\_QA\_SPRINT2\_10JUN2008\_BUILD1 | Bug | Closed |
| 17055 | Report should display Specimen Name | Bug | Closed |
| 20935 | An error message is displayed when the 'Excel' icon is clicked on the results screen | Bug | Closed |
| 24308 | First click on Sample Identifier drop down selection not working | Bug | Closed |
| 24333 | Internal Server Error During Excel Download of All Genes Query | Bug | Closed |
| 24363 | Back link not functional on &amp;quot;No Records Returned. Please modify the query&amp;quot; page | Bug | Closed |
| 24375 | Kaplan-Meier Survival gene expression plot is not displayed in the first instance for some genes | Bug | Closed |
| 24401 | Description of the clinical sample query is generated only after the initial user action on sample report | Bug | Closed |
| 24460 | Spaces need to be inserted clinic plot headers "SurvivalvsAgeAtDx" & "KarnofskyScorevsAgeAtDx " | Bug | Closed |
| 24464 | Issues with Hierarchical Clustering analysis | Bug | Closed |
| 24478 | Radio button representing the base pair position should be below the cytoband option | Bug | Closed |
| 24498 | list boxes under "On Study therapy" section should be cleansed | Bug | Closed |
| 25836 | Typos and UI display issues in Rembrandt | Bug | Closed |

# Summary of Results

## Testing Approach

System and Regression testing was conducted on STAGE tier to ensure Rembrandt Release 1.5.5 deployment complied with the documented GForge feature requests and bugs. The results of the testing under each defined grouping of the test cases are listed in Appendix A.

The system and regression testing performed during May 20th through May 25th on build tag RBT\_VER155\_06MAY2010\_BUILD7. During this period following defects found on STAGE environment and documented in GForge.

| **GForge ID** | **Description** | **Resolution** | **Priority** |
| --- | --- | --- | --- |
| 28628 | Clinical Report link throwing Internal Server Error if no samples available for the query | Open | 3 |
| 28642 | Query results URL do not have secured http URL on STAGE server | Closed | 5 |
| 28643 | Gene symbol validation for FAS | Open | 3 |
| 28670 | Issues on clinical study analysis -> On Study Therapy -> surgery title and outcome drop down lists | Open | 2 |
| 28671 | Non clickable button in Clinical Study Analysis -> Disease Type -> Grade | Open | 2 |
| 28672 | Issues on clinical study analysis -> Prior Therapy -> surgery title & outcome drop down lists | Open | 2 |

QA Team developed and updated test cases in Microsoft Excel and is stored in SVN in the following location.

<https://gforge.nci.nih.gov/svnroot/caintegrator/caintegrator-spec/trunk/docs/caIntegrator/Test%20Plans/REMB%20Test%20Cases%20V1.0/Rembrandt_Testcases_1_5_5_STAGE_Results.xls>

Requirements have been tracked and documented in Google Document and available to view.

<http://spreadsheets.google.com/ccc?key=0Ako9WdmagNXedFFoV19rMXlBUTEzSkNDTGwwOUlvVmc&hl=en>

## Risk

The QA team verified the scope of Rembrandt Release 1.5.5 on STAGE tier and assigned defects to this release. Viewing processing reports and matching actual results with the expected results specified in the test cases.

At the completion of the testing phases, QA team reviewed, and as required, updated the test cases.

# Appendix A

|  |  |
| --- | --- |
| **Rembrandt Test Results Summary** | |
|  |  |
| **Test Date:** | 05/20/2010 to 05/25/2010 |
| **Test Tier:** | STAGE |
| **Build Number:** | RBT\_VER155\_06MAY2010\_BUILD7 |
| **Release:** | Rembrandt 1.5.5 |
| **Test Platform:** | Windows XP/Firefox-Internet Explorer |

| **Test Case No.** | **Test Case Name** | **Overall Result** | **Firefox** | **IE** | **Defect ID** |
| --- | --- | --- | --- | --- | --- |
| **HomePage / Login / Logout** |  |  |  |  |  |
| 1 | Home Page | Pass | Pass | Pass |  |
| 2 | Rembrandt User List Serve | Pass | Pass | Pass |  |
| 3 | Login User | Pass | Pass | Pass |  |
| 4 | Register New User | Pass | Pass | Pass |  |
| 73 | Logout screen | Pass | Pass | Pass |  |
| **Simple Search** |  |  |  |  |  |
| 5 | SimpleSearch\_GE\_wildcard | Pass | Pass | Pass |  |
| 6 | SimpleSearch\_GE\_symbol | Pass | Pass | Pass |  |
| 7 | SimpleSearch\_KM\_GE\_wildcard | Pass | Pass | Pass |  |
| 8 | SimpleSearch\_KM\_GE\_symbol | Pass | Pass | Pass |  |
| 9 | SimlpleSearch\_KM\_CN\_symbol | Pass | Pass | Pass |  |
| 10 | SimpleSearch\_KM\_CN\_wildcard | Pass | Pass | Pass |  |
| 11 | SimpleSearch\_KM\_CN\_SNP | Pass | Pass | Pass |  |
| 12 | KM\_samplebased | Pass | Pass | Pass |  |
| **Advanced Search -- Gene Expression Analysis** |  |  |  |  |  |
| 70 | Finalize\_Page\_GE\_Query | Pass | Pass | Pass |  |
| 71 | Multiple Specimen | Pass | Pass | Pass |  |
| 13 | GE\_GeneSymbol | Pass | Pass | Pass |  |
| 14 | GE\_GeneSymbol(My workspace-managelist) | Pass | Pass | Pass |  |
| 15 | GE\_LL | Pass | Pass | Pass |  |
| 16 | GE\_LL\_(managelist) | Pass | Pass | Pass |  |
| 17 | GE\_AccNo | Pass | Pass | Pass |  |
| 18 | GE\_AccNo(managelist) | Pass | Pass | Pass |  |
| 19 | GE\_AllGene | Pass | Pass | Pass |  |
| 20 | GE\_Chr\_cytoband | Pass | Pass | Pass |  |
| 21 | GE\_Chr\_Physi\_Loc | Pass | Pass | Pass |  |
| 22 | CN\_Chr\_Physi\_Loc | Pass | Pass | Pass |  |
| 23 | GE\_CloneId&ProbesetId | Pass | Pass | Pass |  |
| 24 | GO Classification | Pass | Pass | Pass |  |
| 25 | GE\_caBIOPtw | Pass | Pass | Pass |  |
| 26 | GE\_KeggPtw | Pass | Pass | Pass |  |
| 27 | GE\_DiseaseType | Pass | Pass | Pass |  |
| 28 | GE\_FoldChange | Pass | Pass | Pass |  |
| **Advanced Search -- Copy Number Data Analysis** |  |  |  |  |  |
| 29 | CN\_geneSymbol | Pass | Pass | Pass |  |
| 30 | CN\_gene\_list | Pass | Pass | Pass |  |
| 31 | CN\_LL | Pass | Pass | Pass |  |
| 32 | CN\_Webgenome | Fail | Fail | Fail |  |
| 33 | CN\_LL\_List | Pass | Pass | Pass |  |
| 34 | CN\_Acc | Pass | Pass | Pass |  |
| 35 | CN\_Acc\_List | Pass | Pass | Pass |  |
| 36 | CN\_All\_gene | Pass | Pass | Pass |  |
| 37 | CN\_Chr\_cytoband | Pass | Pass | Pass |  |
| 38 | CN\_Chr\_Physi\_Loc | Pass | Pass | Pass |  |
| 39 | CN\_dbSNP | Pass | Pass | Pass |  |
| 40 | CN\_dbSNP\_List | Pass | Pass | Pass |  |
| 41 | CN\_ProbeSetId | Pass | Pass | Pass |  |
| 42 | CN\_Probeset\_List | Pass | Pass | Pass |  |
| 43 | CN\_SampleIDs\_List | Pass | Pass | Pass |  |
| 44 | CN\_SampleIDs | Fail | Fail | Fail |  |
| 45 | CN\_DiseaseType | Pass | Pass | Pass |  |
| 46 | CN\_CopyChange | Pass | Pass | Pass |  |
| **Advanced Search -- Clinical Study Analysis** |  |  |  |  |  |
| 47 | Clinical\_Age | Pass | Pass | Pass |  |
| 48 | Clinical\_Gender | Pass | Pass | Pass |  |
| 49 | Clinical\_Race | Pass | Pass | Pass |  |
| 50 | Clinical\_SurvivalRange | Pass | Pass | Pass |  |
| 51 | Clinical\_SampleID | Pass | Pass | Pass |  |
| 52 | Clinical\_Evaluation | Pass | Pass | Pass |  |
| 53 | Clinical\_DiseaseType | Pass | Pass | Pass |  |
| 54 | Clinical\_PriorTherapy | Pass | Pass | Pass |  |
| 55 | Clinical\_OnStudyTherapy | Pass | Pass | Pass |  |
| **Higher Order Analysis - Class Comparison Analysis** |  |  |  |  |  |
| 57 | HOA\_CCA\_default\_1 | Pass | Pass | Pass |  |
| 58 | HOA\_CCA\_default\_2 | Fail | Fail | Fail | 24399 |
| 59 | HOA\_CCA\_adv\_1 | Pass | Pass | Pass |  |
| 60 | HOA\_CCA\_adv\_2 | Fail | Fail | Fail | 24399 |
| 61 | CCA\_ResultPage\_test | Pass | Pass | Pass |  |
| 62 | CCA\_FC\_neg | Fail | Fail | Fail | 24399 |
| 63 | CCA\_T\_F\_Wilcoxin | Fail | Fail | Fail | 24399 |
| **Higher Order Analysis - Principal Component Analysis** |  |  |  |  |  |
| 64 | HOA\_PCA\_default | Pass | Pass | Pass |  |
| 65 | HOA\_PCA\_adv | Pass | Pass | Pass |  |
| **Higher Order Analysis - Hierarchical Clustering Analysis** |  |  |  |  |  |
| 66 | HOA\_HCA\_default | Pass | Pass | Pass |  |
| 67 | HOA\_HCA\_adv | Pass | Pass | Pass |  |
| **Higher Order Analysis - Gene Pattern** |  |  |  |  |  |
| 56 | HOA\_GenePattern | Fail | Fail | Fail | 17757 |
| 68 | HOA\_SD\_GP | Pass | Pass | Pass |  |
| 69 | HOA\_GT\_GP | Pass | Pass | Pass |  |
| **Download** |  |  |  |  |  |
| 72 | Download | Pass | Pass | Pass |  |
| **Users** |  |  |  |  |  |
| 74 | HENRY\_FORD\_USER | Pass | Pass | Pass |  |
| 75 | TJU\_User | Pass | Pass | Pass |  |
| 76 | HENRY\_FORD\_TJU | Pass | Pass | Pass |  |
| 77 | Public\_User | Pass | Pass | Pass |  |