Rembrandt – Release 1.5.4.1

Summary Test Report

# Test Overview

## Executive Summary

This test report summarizes the system and regression testing efforts for the Rembrandt version 1.5.4.1 Release and following tasks were completed.

* Verified Feature Request # 21608 – caArray 2.3.0 support for Rembrandt and closed in GForge.
* Verified bugs identified by #23722, #23167, and #20325 and closed in GForge.
* A total of 81 test cases were written and/or modified to test the Rembrandt version 1.5.4.1 application against the functional requirements.
* QA Team executed all **81** test cases. **70** test cases were Passes successfully and **11** test cases were failed due to following issues.
* During system and regression testing, QA team entered **5** new items in GForge. **4** of these are defects and **1** feature request.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case # | GForge ID | Description | Status | Priority |
| 43 | 24308 | First click on Sample Identifier drop down selection not working | Open | 2 |
| 79 | 24363 | Back link not functional on "No Records Returned. Please modify the query" page | Open | 2 |
| 58, 60, 62, 63 | 24399 | cDNA Array platform should be removed from list for High Order Analysis -> Class Comparison Analysis | Open | 2 |
| 80 | 24375 | Kaplan-Meier Survival gene expression plot is not displayed in the first instance for some genes | Open | 3 |
| 81 | 24401 | Description of the clinical sample query is generated only after the initial user action on sample report | Open | 1 |
| 56 | 17757 | Gene Pattern - error saving Heat Map Image file | Open (already exists) | 3 |
| 74, 76 | N/A | User account login issue. Request placed at support site to reset the Password | N/A | N/A |

## Scope

This document is the Test Evaluation Summary for Rembrandt version 1.5.4.1. 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 system and regression testing performed during November 13th through November 18th on build tag RBT\_VER1541\_11NOV2009\_BUILD1.

The focus of Rembrandt version 1.5.4.1 as follows:

| **GForge ID** | **Description** | **Type** | **Status** |
| --- | --- | --- | --- |
| 21608 | caArray 2.3.0 support for Rembrandt | Feature Request | Closed |
| 21766 | caArray 2.3.0 support | Feature Request | Closed |
| 23722 | Data for the 'Survival' doesn't match | Bug | Closed |
| 23167 | The word 'with' is misspelled as 'wiht' in the body of the email when a new user is registered. | Bug | Closed |
| 20325 | 'Release Date: 2-03-2019' , says splash screen | Bug | Closed |

# Summary of Results

## Testing Approach

The Feature Request # 21608 and # 21766 functionality has been verified as described below.

* In Rembrandt application, downloaded caArray data for ASTROCYTOMA disease. The zip file contains 131 files.
* In My workspace tab, ASTROCYTOMA disease has 153 samples.
* Compared the above 2 set of samples and identified the discrepancies (22 samples) which are not downloaded from caArray to Rembrandt.
* In Rembrandt, for each one of these 22 samples, downloaded “Oligo (Affymetrix U133 Plus 2.0)” and “Affymetrix 100K SNP Array” array platforms data and note down the sample’s files. Some of these include blood files and tissue files.
* For each of these 22 samples, downloaded sample data from caArray application and note down the sample names. Some of these have only blood samples and some of these have only tissue samples and some have both.
* Compared the no. of sample files in step 4 and step 5 and highlighted the failed samples where mismatched found between caArray data and Rembrandt downloaded data.
* Spread sheet created with sample ID, no. of sample files in Rembrandt downloaded data and no. of sample files in caArray data.
* For remaining diseases, noticed the samples which are missing in caArray download from Rembrandt and verify the sample files in future when data refresh planned.

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/Rembrandt\_Testcases\_1\_5\_4\_1\_QA\_Results.xls*](https://gforge.nci.nih.gov/svnroot/caintegrator/caintegrator-spec/trunk/docs/caIntegrator/Test%20Plans/Rembrandt_Testcases_1_5_4_1_QA_Results.xls)”. The test cases were executed to ensure the Rembrandt version 1.5.4.1 software was functional and no existing issues.

## Risk

The QA team verified the functionality of Rembrandt support for caArray 2.3.0 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.

## Testing Results

System testing was conducted in QA environment to ensure .1 complied with the documented feature requests and fixed defects. The results of the testing under each defined grouping of the test cases are attached.

|  |  |
| --- | --- |
| **Rembrandt Test Results Summary** | |
|  |  |
| **Test Date:** | 11/16/2009 to 11/17/2009 |
| **Test Tier:** | QA |
| **Build Number:** | RBT\_VER1541\_11NOV2009\_BUILD1 |
| **Release:** | Rembrandt 1.5.4.1 |
| **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 |  |
| 80 | SimpleSearch\_KM\_GE\_symbol2 | Fail | Fail | Fail | 24375 |
| 81 | Clinical\_sample\_query\_description | Fail | Fail | Fail | 24401 |
| 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 | Pass | Pass | Pass |  |
| 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 | Fail | Pass | Fail | 24308 |
| 44 | CN\_SampleIDs | Pass | Pass | Pass |  |
| 45 | CN\_DiseaseType | Pass | Pass | Pass |  |
| 46 | CN\_CopyChange | Pass | Pass | Pass |  |
| 79 | CN\_Back\_link\_Clinical\_report | Fail | Fail | Fail | 24363 |
| 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 |  |
| 78 | caArray\_data\_validation | Pass | Pass | Pass |  |
| Users |  |  |  |  |  |
| 74 | HENRY\_FORD\_USER | Fail | Fail | Fail | N/A |
| 75 | TJU\_User | Pass | Pass | Pass |  |
| 76 | HENRY\_FORD\_TJU | Fail | Fail | Fail | N/A |
| 77 | Public\_User | Pass | Pass | Pass |  |