

Quartet Data Portal User Guide for WGS Quality Assessment Report

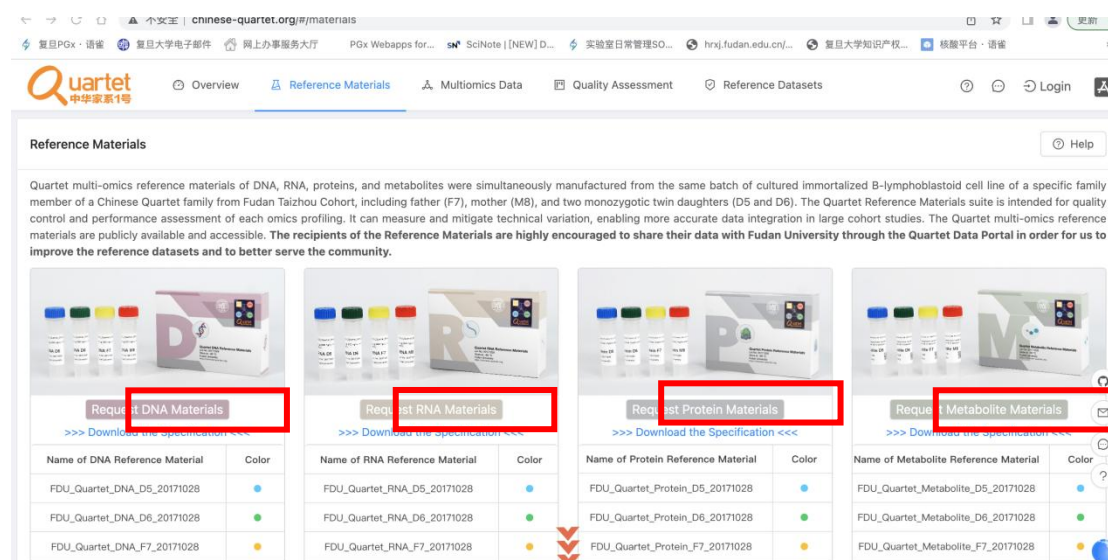
1. Preparation

QDP Address	https://chinese-quartet.org/
OSS Browser	https://help.aliyun.com/document_detail/209974.htm
Input files	The file name suffix should be: _LCL5_R1.fastq.gz, _LCL5_R2.fastq.gz _LCL6_R1.fastq.gz, _LCL6_R2.fastq.gz _LCL7_R1.fastq.gz, _LCL7_R2.fastq.gz _LCL8_R1.fastq.gz, _LCL8_R2.fastq.gz

2. Log on to QDP

2.1 QDP account

1) If you have a request for the reference materials, please go to <http://chinese-quartet.org/#/materials> to request the reference materials. The Quartet team will contact you for further confirming your information and send you a registration email.



2) If you do not have a request for the reference materials, please send an email to quartet@fudan.edu.cn for a QDP account.

2.2 Log on to QDP

Address: <http://chinese-quartet.org/>

← → ↻ 不安全 | chinese-quartet.org/#/dashboard

Quartet 中华家系1号

Overview Reference Materials Multiomics Data Quality Assessment Reference Datasets

The Quartet Data Portal only supports access from modern browsers, such as Chrome, Safari, Firefox or Edge.

We're announcing the release of our new documentation service >>> <https://docs.chinese-quartet.org> <<<

The Quartet Project

Quality Control and Data Integration of Multi-omics Profiling

[Request Reference Materials](#) [Download MultiOmics Data](#) [Analyze Your Omics Data](#)

Multi-omics (or molecular phenomics) profiling at the genomic, transcriptomic, proteomic, and metabolomic levels is the cornerstone of high-throughput technologies for discovering biomarkers for precision medicine. However, the lack of quality control procedures of multi-omics profiling during data generation and data analysis can lead to false findings, raising serious concerns about the reliability of multi-omics studies.

The Quartet Project provides publicly accessible multi-omics reference materials and practical tools to enhance the reproducibility and reliability of multi-omics results. Well-characterized multiomics reference materials and quality control metrics pertinent to precision medicine study purposes can be used to measure and mitigate technical variation, enabling more accurate cross-batch and cross-omics data integration in increasingly large-scale and longitudinal studies such as the International Human Phenome Project.

Data Portal Summary			
Release v1.0 (October 18, 2021)			
Cell Lines	Omics	Reference Materials	Reference Datasets
4	6	20	16
Platforms	Sites	Libraries	Files
26	27	1323	2646

Quartet 中华家系1号

For the Quality Control of Omics Data

[Account Login](#)

Please enter your username.

Please enter your password.

[Register](#) [Forget Password?](#)

Login

Data Policies Help Feedback

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2.3 Select Quality Assessment> QC Apps

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Overview Reference Materials Multiomics Data **Quality Assessment** Reference Datasets

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QC Apps

[QC Report History](#) [All Your Data](#)

The Quartet Project

Quality Control and Data Integration of Multi-omics Profiling

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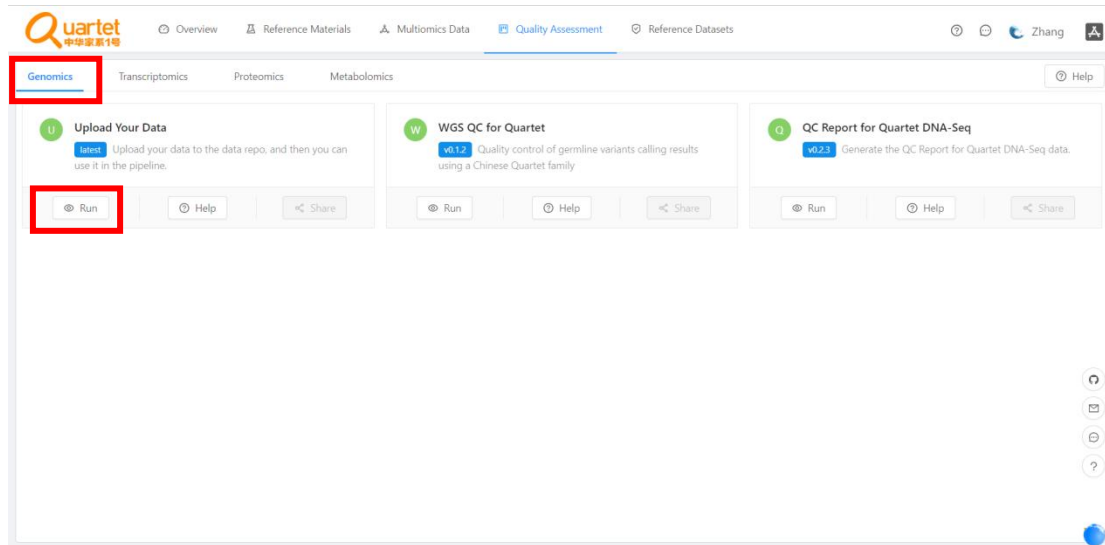
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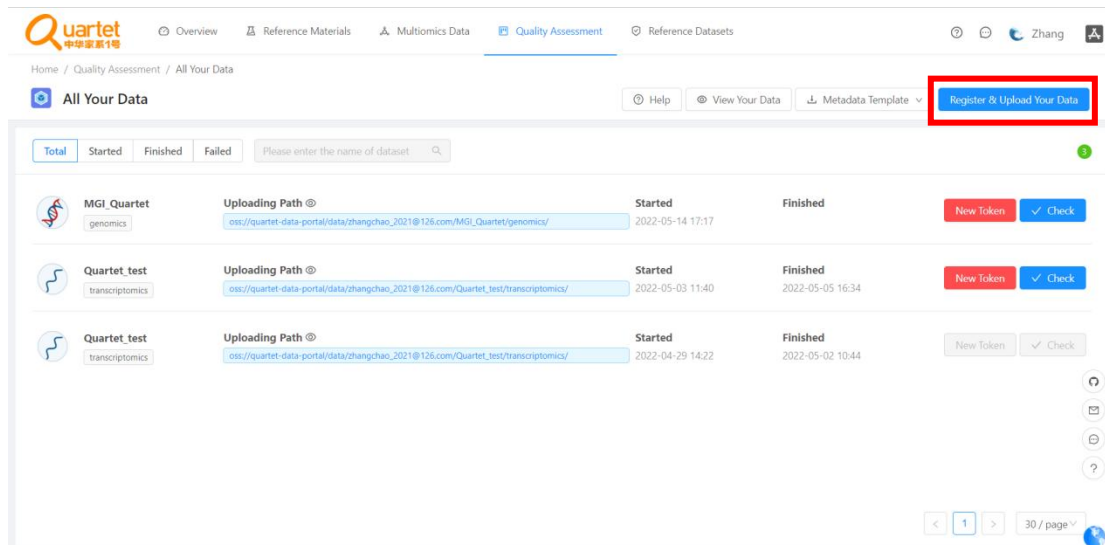
Data Portal Summary			
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Platforms	Sites	Libraries	Files
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3. Upload DNA sequencing data

3.1 Select Genomic> Upload Your Data> Run



3.2 Click the symbol called “Register & Upload Your Data”



3.3 Fill in Dataset Name, DataType select Genomics, and click Submit

Register & Upload Your Omics Data

Notices
The uploading path will automatically generate after you submit the form. If you want to access the same path as before, please enter the same information.

Your Data Will Be Uploaded To
oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet_test/genomics/

Dataset Name
MGI_Quartet_test

Contact Email
zhangchao_2021@126.com

Manager
zhangchao_2021@126.com

DataType
Genomics

Description
Please enter the description

Submit

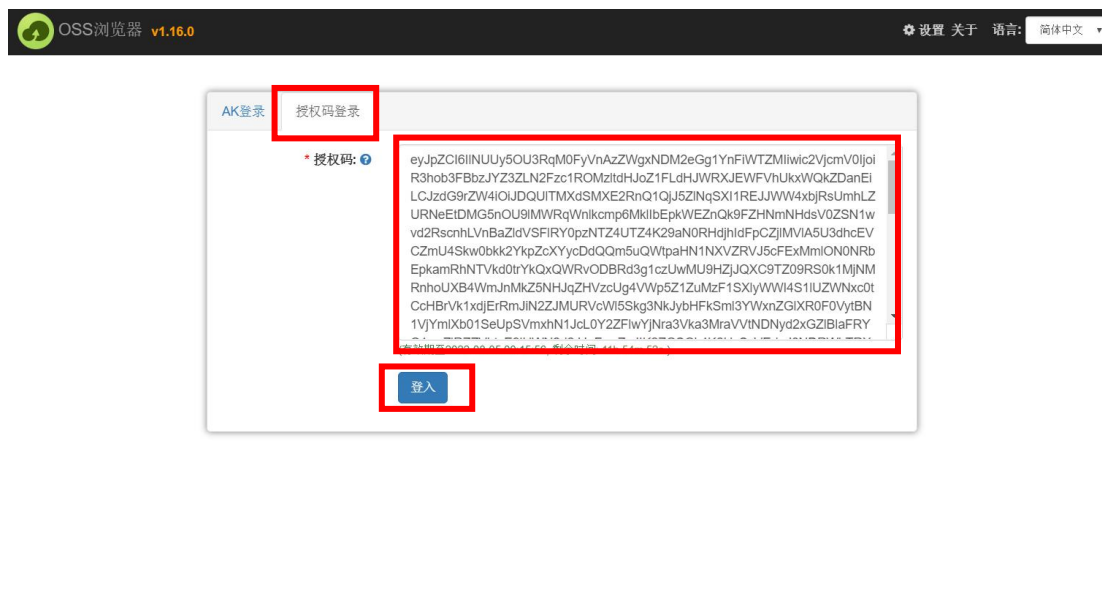
3.4 Click the symbol called “New Token”. Copy the authorizedCode, which is for subsequent ossbrowser login

New Token Information (Only Show Once)

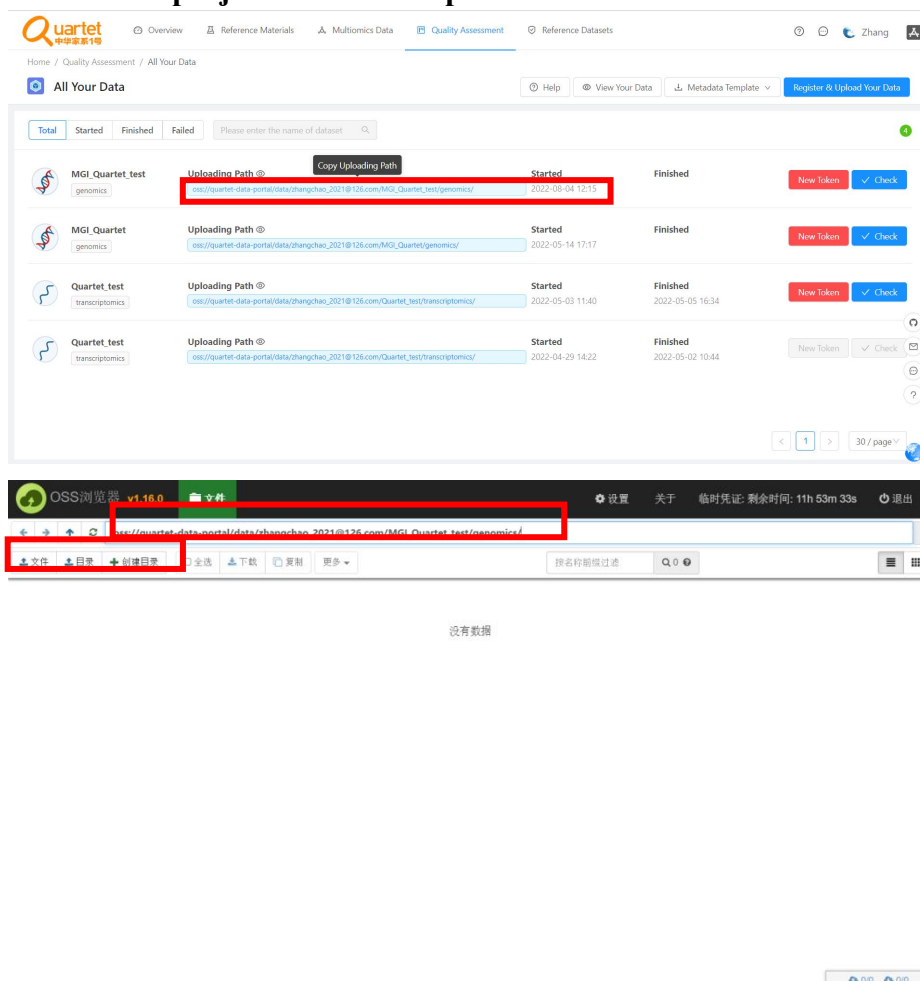
authorizedCode:
jvzs4zS401H0kZpTEJ+kESpYE8+hX1MhAcYtZ3twZQK6QAT8+8rD3jZZn+Hiv
nc7Vb2wOhmTrBDZqVe64pF2N1B1o3Hs+Ccow9tGECrIUmsXp1Jh+/KAq
...
vCvion7Ct6t1N1U1U5U13BwmtVnAZZwXpNDQ2eGgLYnF1JtZHI1w1c2Vjcmw
0tJoiR3hob3FB0z3Y23ZLN2Fzc1R0Hx1tdH0z21FLdH7WRA3EWFVhUk0wQKz
DaneILCJzde9P2u4101J0QU1ThXdsKXE2RnQ1QJ35Z1HqSX1REJ7M44xbJR
sUmhLZURWeETDM25n0U9JmWqwh1KcmP6K1IBepKwEznQK9FZuHmH4SV0Z
SH1wvD2RscnhVnbaZ1nYSF1Ry9pZHTZALTZAKZ9aWmH4jH1dPpcZJ1mV1A
Su3dhEVCZw1scswbkk2VqZcKxyCDQg9suQp1aH1R0VZV35cFExm1
Cw0uBEPksw8H1TVkd0trYkQxQwV0B8d3GtC1mU9H2j3QXC9T269R56K
1HJHn0uX84w07nKkZ5Mh3qZHVzcUgAvAp5Z1ZuPzF1SX1Ym14S11uzm
xc0tCnBhVc1xdJErm01H2Z2MURVcW155kg3Mk1ybHfKs1ZyWmZG1XR0F
0vytBN1VYm1Xb01SeUpSVmXh11C10Y2F1wYJm3A3Ka3MwVVTNDHyd2x
Gz1B1aFRYQ1wY1RZZVhtce91UwN2J2JafvZn31KZ2G5GAK2UySZVEdn3
3NDRb4TRXTHg4Tm0Y25MhB4QwKcKMFtJBRODULMFZUT1p5a1Pdc3JokZF
vCTBQX0a30x0U42U1HuVNLTS21ZHW1CvFcLzF1YUZne1pUb1h4bKRZUS
wTOYQ1HOU1Gw15wVZv5mVkarHuaEkyP0X8BkpRRTFhdzJwUw91ZJfHb0d
mK5Jv11uHnR0A0kZzH0EpZwZybu13VTFuckRy1m5aazVSyKd8XC9YyJ1

New Token

3.4 Login on to ossbrowser by using an authorization code, which is copied in Step 3.3

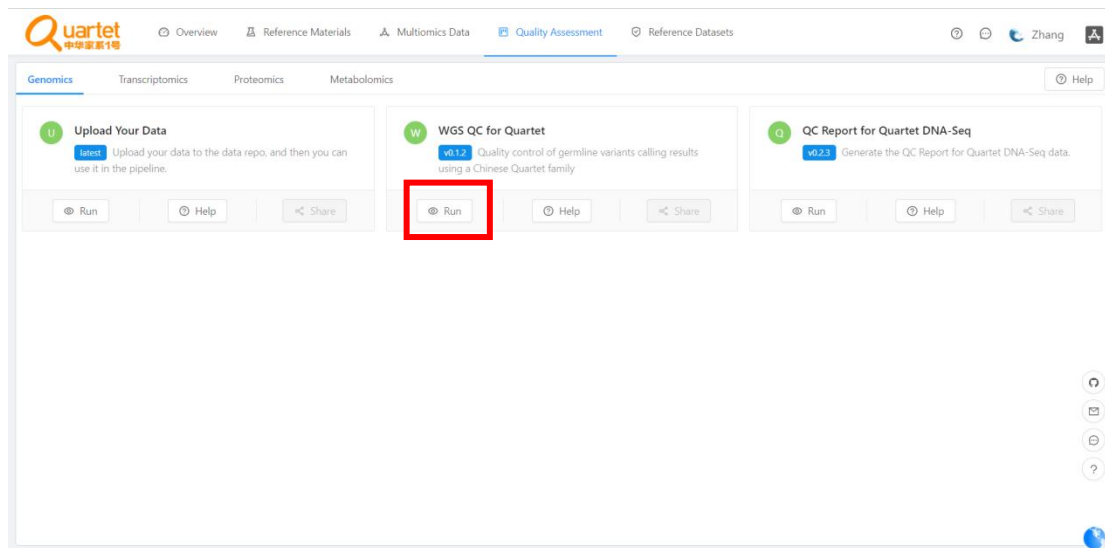


3.5 Create project folder and upload the data

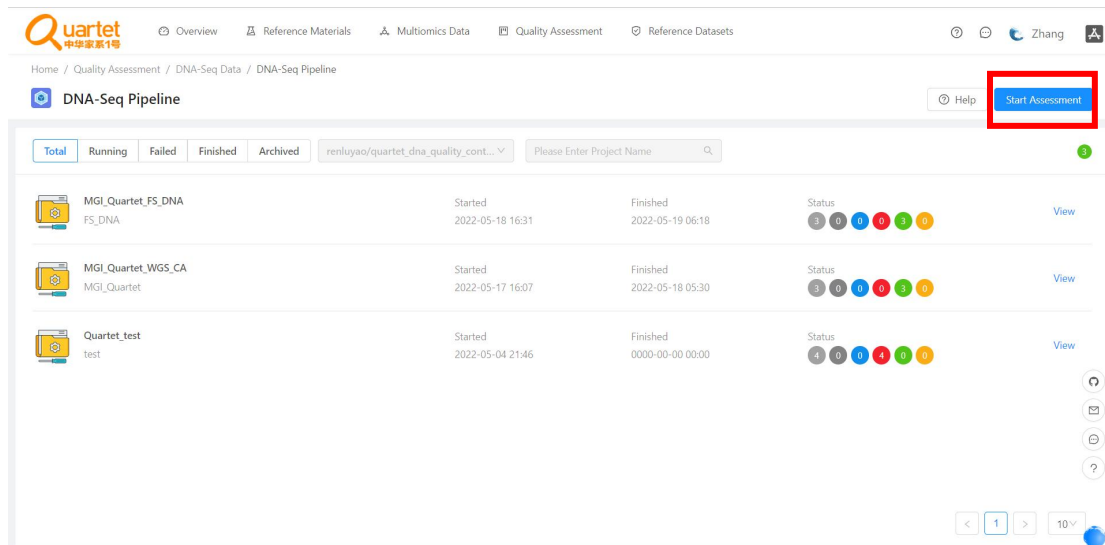


4. Run WGS app

4.1 Select Genomic> WGS QC for Quartet> Run



4.2 Click the symbol called “Start Assessment”



4.3 Fill in Assessment Name and Description. Then click Next.

The screenshot shows the 'General Information' step of the Quartet assessment process. The 'Assessment Name' and 'Description' fields are both filled with 'MGI_Quartet_test'. The 'Started Time' is set to '2022-08-04 12:33:52', and the 'Group' is 'Quartet Team'. The 'Assessment App' is set to 'renliyao/quartet_dna_quality_control_wgs_big...'. The 'Next' button is highlighted with a red box.

4.4 Fill in Sample information

Sample ID should be numbers. It is set D5+D6+F7+M8 Four samples as a group, Sample ID for one group of samples filled in 1, Sample ID for two groups of samples filled in 2, Sample ID for three groups of samples filled in 3. Assessment Parameters can be downloaded and checked.

The screenshot shows the 'Sample ID' step of the Quartet assessment process. The 'Sample ID' field is filled with '1'. The 'FASTQ/VCF File?' section is set to 'FASTQ'. The 'D5 Read1 Files', 'D5 Read2 Files', 'D6 Read1 Files', 'D6 Read2 Files', and 'F7 Read1 Files' sections are all highlighted with a red box, showing file names like 'LCL5_CA_DNA_D5_4_R1.fastq.gz'.

4.5 Click the symbol called “Run Assessment”

The screenshot shows the Quartet Quality Assessment interface. The top navigation bar includes links for Overview, Reference Materials, Multiomics Data, Quality Assessment, and Reference Datasets. The main content area has a progress bar with three steps: General Information, Assessment Parameters, and Submit. The 'Submit' step is active, and a 'Run Assessment' button is highlighted with a red box. The 'Assessment Parameters' section shows a table with columns for 'fastq_or_vcf', 'fastq_1_D5', and 'fastq_2_D5'. The 'fastq' row is selected, and the 'fastq_1_D5' column contains the path 'data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL5_CA_DNA_D5_4_R1.fastq.gz'.

CreatedTime: 2022-08-04T04:24:03.980Z
Group: Quartet Team
AppId: ea989fd08517f6c4dc1edf931ac946f
ProjectName: MGI_Quartet_test
Description: MGI_Quartet_test
AppName: renluyao/quartet_dna_quality_control_wgs_big_pipeline-v0.1.2
Author: zhangchao_2021@126.com

Download Save Reset

Assessment Parameters

	fastq_or_vcf	fastq_1_D5	fastq_2_D5
1	fastq	data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL5_CA_DNA_D5_4_R1.fastq.gz	oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL5_CA_DNA_D5_4_R2.fastq.gz

4.6 Check the status of Run Assessment

The screenshot shows the Quartet DNA-Seq Pipeline interface. The top navigation bar includes links for Overview, Reference Materials, Multiomics Data, Quality Assessment, and Reference Datasets. The main content area has a 'DNA-Seq Pipeline' section with a 'Start Assessment' button. Below this, there is a table showing the status of the Run Assessment. The table has columns for 'Total', 'Running', 'Failed', 'Finished', and 'Archived'. The 'Running' column is highlighted with a red box. The table lists three items: 'MGI_Quartet_FS_DNA', 'MGI_Quartet_WGS_CA', and 'Quartet_test'. Each item has a 'Status' column with a red box around the 'Running' status indicator.

Home / Quality Assessment / DNA-Seq Data / DNA-Seq Pipeline

DNA-Seq Pipeline

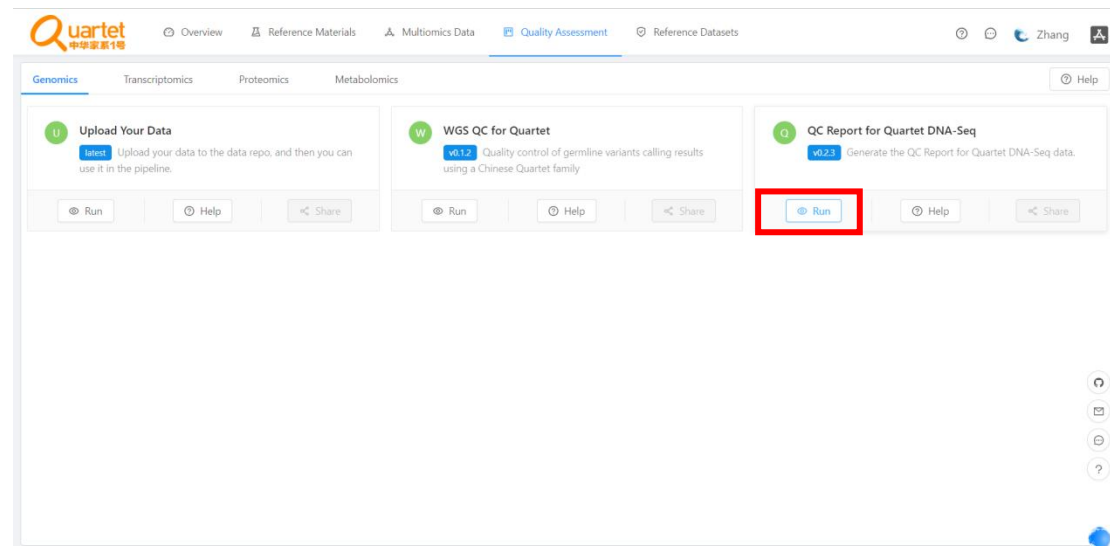
Help Start Assessment

Total Running Failed Finished Archived renluyao/quartet_dna_quality_cont... Please Enter Project Name

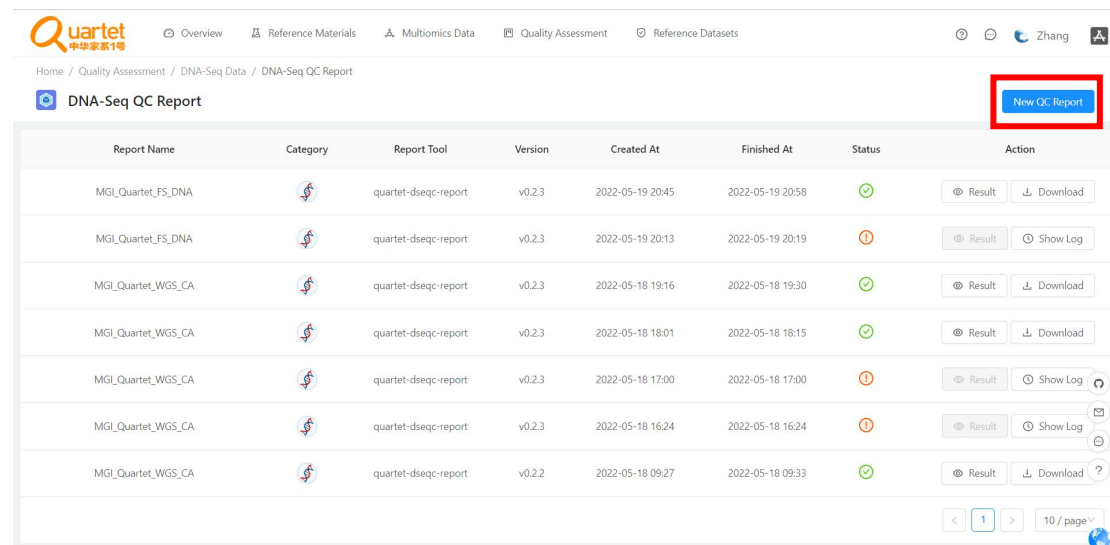
	Started	Finished	Status	View
MGI_Quartet_FS_DNA FS_DNA	2022-05-18 16:31	2022-05-19 06:18	Running	View
MGI_Quartet_WGS_CA MGI_Quartet	2022-05-17 16:07	2022-05-18 05:30	Status	View
Quartet_test test	2022-05-04 21:46	0000-00-00 00:00	Status	View

5. Results and Report

5.1 Select Genomic> QC Report for Quartet DNA Seq-Run



5.2 Click the symbol called “New QC Report”



5.3 Follow the Steps as prompted

Quartet 中华家第1号

Overview Reference Materials

Home / Quality Assessment / DNA-Seq Data / DNA-Seq QC Report

DNA-Seq QC Report

Report Name	Category
MGI_Quartet_FS_DNA	
MGI_Quartet_FS_DNA	
MGI_Quartet_WGS_CA	
MGI_Quartet_WGS_CA	
MGI_Quartet_WGS_CA	
MGI_Quartet_WGS_CA	
MGI_Quartet_WGS_CA	

New QC Report

Step1: Choose Report Step2: Load Project & Submit

Notices
Please select the expected quality assessment tool from the following list, after selecting the tool, the corresponding guidance message will appear.

Category	Name	Description	Version	GitHub
	QC Report for Quartet DNA-Seq	Generate the QC Report for Quartet DNA-Seq data.	v0.2.3	

Quartet 中华家第1号

Overview Reference Materials

Home / Quality Assessment / DNA-Seq Data / DNA-Seq QC Report

DNA-Seq QC Report

New QC Report

Step1: Choose Report Step2: Load Project & Submit

Notices
Please select the completed project from the dropdown menu below and the QC report tool will automatically extract the required data from the results file generated by the 'WGS QC for Quartet' app and generate a QC report. If you do not find the expected project, please check whether the corresponding analysis has been completed properly.

MGI_Quartet_FS_DNA

MGI_Quartet_FS_DNA

MGI_Quartet_WGS_CA

```

{
  "description": "FS_DNA",
  "appName": "renluyao/quartet_dna_quality_control_wgs_big_pipeline-v0.1.2",
  "appId": "ea989ff08517f6c4dcdedf931ac946f",
  "author": "zhangchao_2021@126.com",
  "groupname": "Quartet Team",
  "startedAt": "2022-05-18 16:31",
  "finishedAt": "2022-05-19 06:18",
  "samples": [
    {
      "fastq_2_F7": "oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL7_FS_DNA_F7_1_R2.fastq.gz",
      "fastq_1_F7": "oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL7_FS_DNA_F7_1_R1.fastq.gz",
      "fastq_2_D6": "oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL6_FS_DNA_D6_1_R2.fastq.gz",
      "fastq_1_D6": "oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL6_FS_DNA_D6_1_R1.fastq.gz",
      "fastq_2_H8": "oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL8_FS_DNA_H8_1_R2.fastq.gz",
      "fastq_1_D5": "oss://quartet-data-portal/data/zhangchao_2021@126.com/MGI_Quartet/genomics/LCL5_FS_DNA_D5_1_R1.fastq.gz",
      "facta_nr_vrf": "facta"
    }
  ]
}

```

Cancel Submit

Quartet 中华家第1号

Overview Reference Materials Multiomics Data Quality Assessment Reference Datasets

Home / Quality Assessment / DNA-Seq Data / DNA-Seq QC Report

DNA-Seq QC Report

New QC Report

Report Name	Category	Report Tool	Version	Created At	Finished At	Status	Action
MGI_Quartet_FS_DNA		quartet-dseq-report	v0.2.3	2022-05-19 20:45	2022-05-19 20:58	✓	Result Download
MGI_Quartet_FS_DNA		quartet-dseq-report	v0.2.3	2022-05-19 20:13	2022-05-19 20:19	⚠	Result Show Log
MGI_Quartet_WGS_CA		quartet-dseq-report	v0.2.3	2022-05-18 19:16	2022-05-18 19:30	✓	Result Download
MGI_Quartet_WGS_CA		quartet-dseq-report	v0.2.3	2022-05-18 18:01	2022-05-18 18:15	✓	Result Download
MGI_Quartet_WGS_CA		quartet-dseq-report	v0.2.3	2022-05-18 17:00	2022-05-18 17:00	⚠	Result Show Log
MGI_Quartet_WGS_CA		quartet-dseq-report	v0.2.3	2022-05-18 16:24	2022-05-18 16:24	⚠	Result Show Log
MGI_Quartet_WGS_CA		quartet-dseq-report	v0.2.2	2022-05-18 09:27	2022-05-18 09:33	✓	Result Download

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