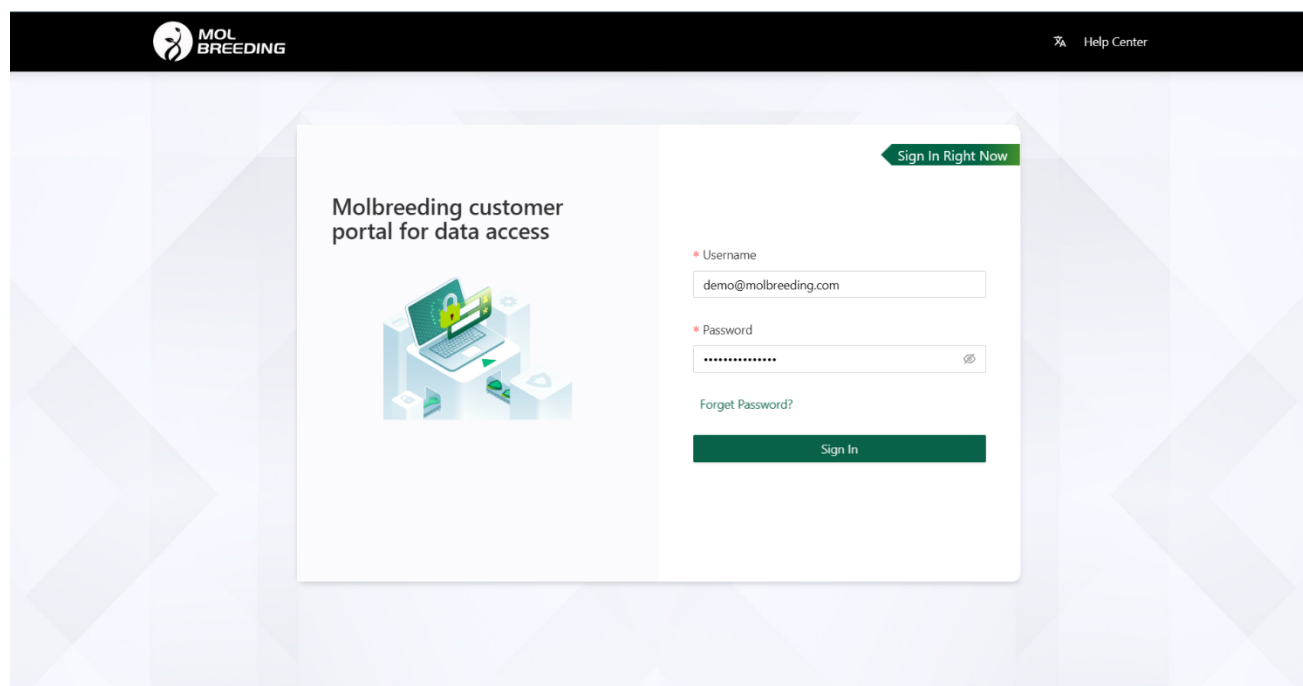


MolBreeding Customer Portal Introductions

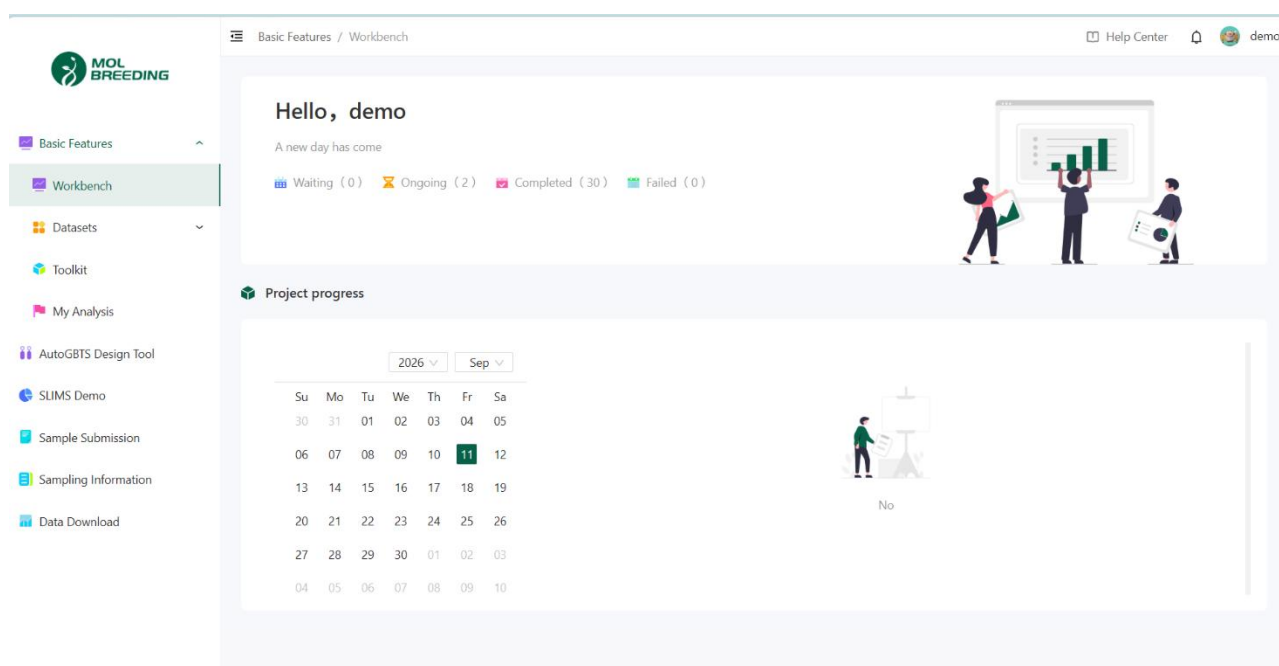
Once a project is confirmed, we will create a personalized account for you on our secure Customer Portal. Our portal offers comprehensive information management from sample to data analysis, allowing you to track your project's progress anytime and download your reports. Below is a quick guide to data download and analysis.

Data Download:

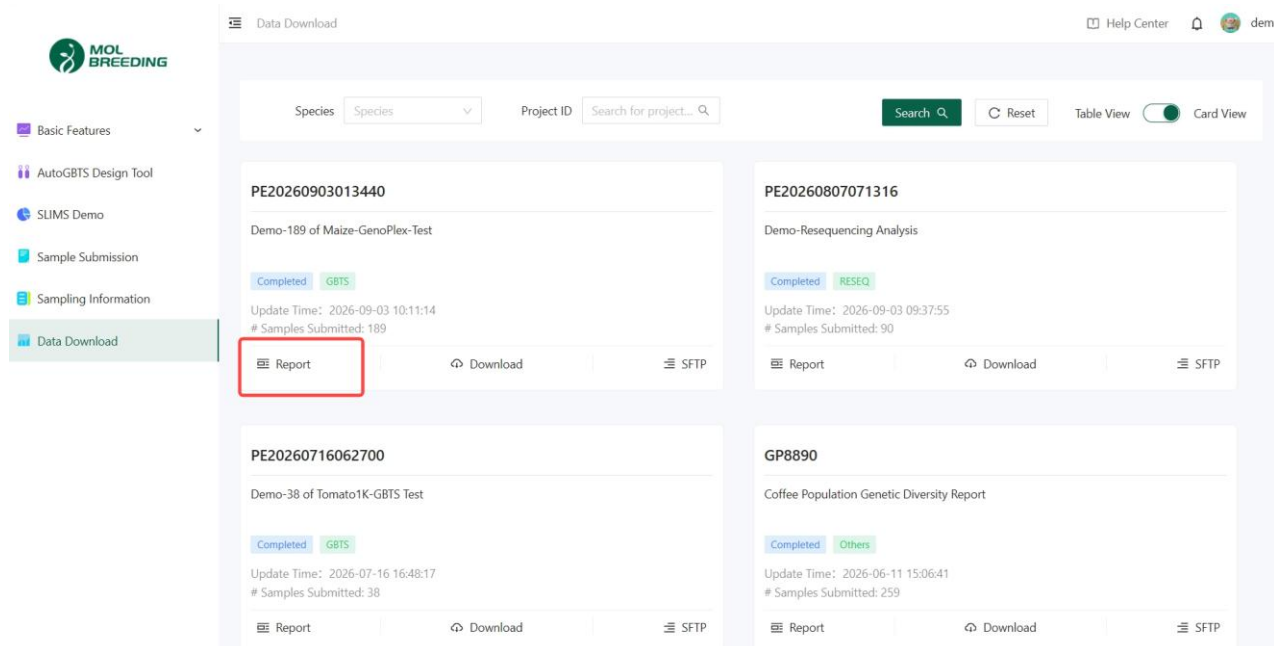
1. Log in MolBreeding's Customer Portal (<https://cloud.molbreedinglab.com>) for data access.



2. On the left-hand navigation menu, click on the **Data Download**

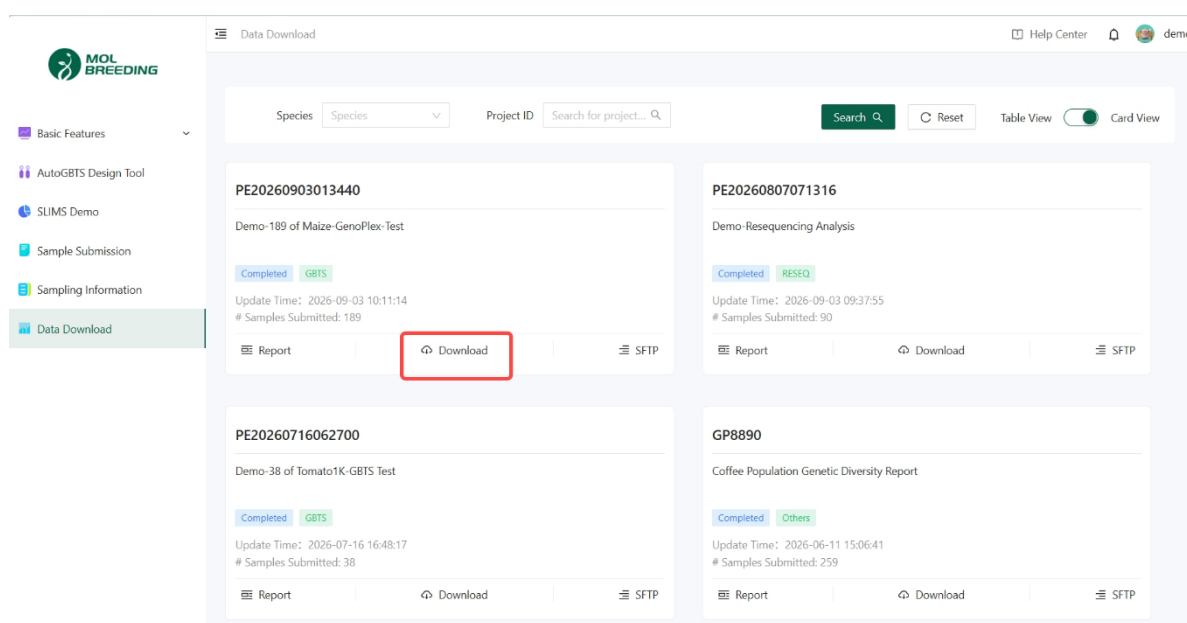


3. Click **Report** to view the project summary report online.



The screenshot shows the 'Data Download' section of the MOL BREEDING portal. On the left, a sidebar lists various features, with 'Data Download' selected. The main area displays four project cards. Each card includes the project ID, a brief description, completion status (e.g., 'Completed', 'GBTS', 'RESEQ'), update time, and number of samples submitted. At the bottom of each card are three buttons: 'Report', 'Download', and 'SFTP'. The 'Report' button for the first project, PE20260903013440, is highlighted with a red rectangular box.

4. Click **Download** to download the Report.zip file, which contains the summary report, sequencing statistics, alignment results, call rate information, and genotype data. For GenoPlex projects, the genotyping scatter plot data is also provided.



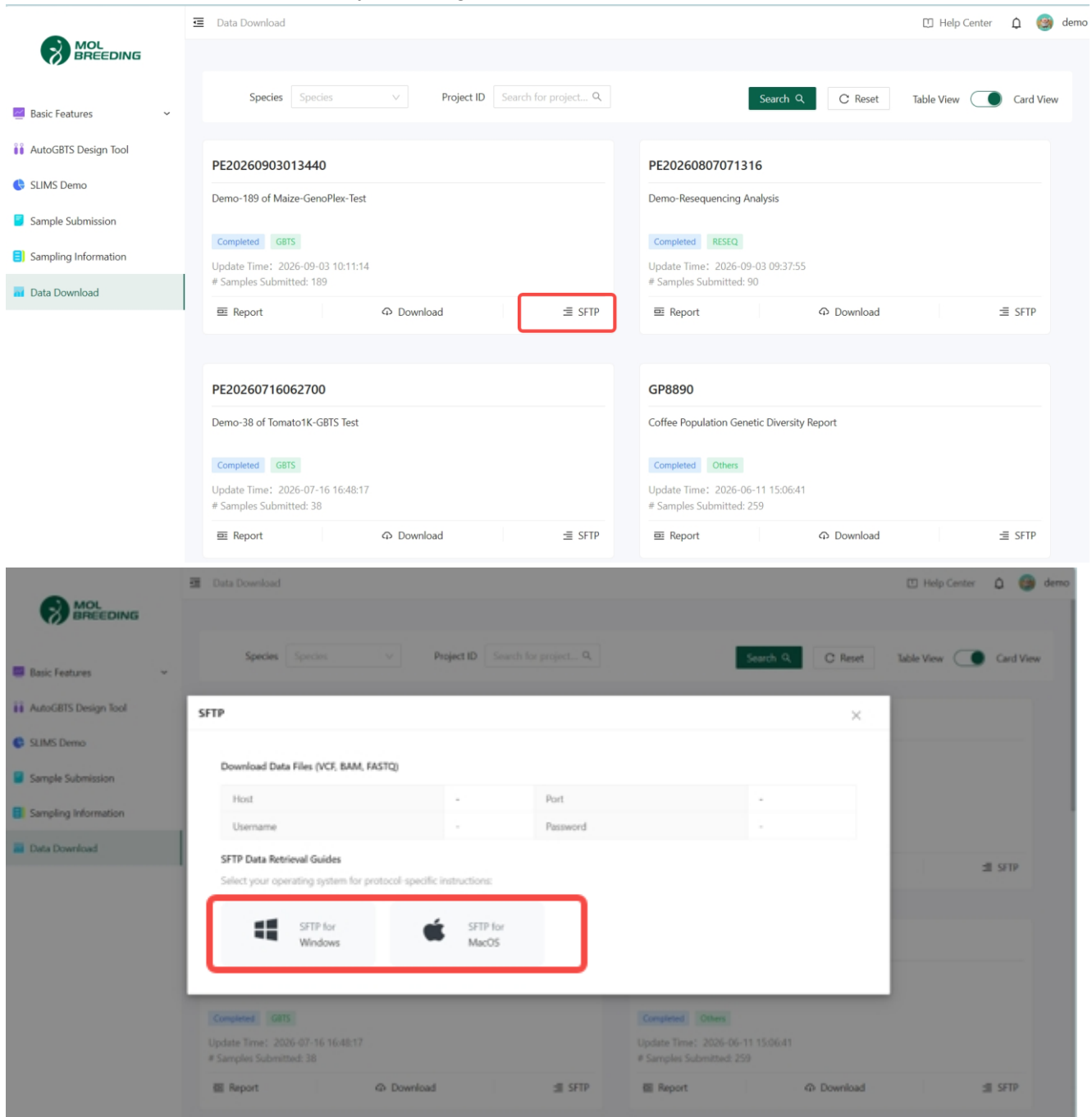
This screenshot is similar to the previous one, showing the same project cards. However, the 'Download' button for the first project, PE20260903013440, is now highlighted with a red rectangular box, indicating the next step in the process.

 PE20260903013440

..		
5_SNP_Genotype	747,245	206,337
6_SNP_Scatter_Plot	2,618,490	1,129,729
data	156,128	118,186
1_Analysis_Report.html	1,073,789	527,168
2-Sequencing_Quality_Statistics.xls	2,642	1,037
3_Sample_Statistics.xls	2,140	787
4_SNP_Statistics.xls	87,068	19,359

2026/9/11 9:54

- Click **SFTP** to access your SFTP account credentials and retrieve the clean FASTQ, GVCf and Report.zip via FileZilla by following the SFTP Data Retrieval Guide

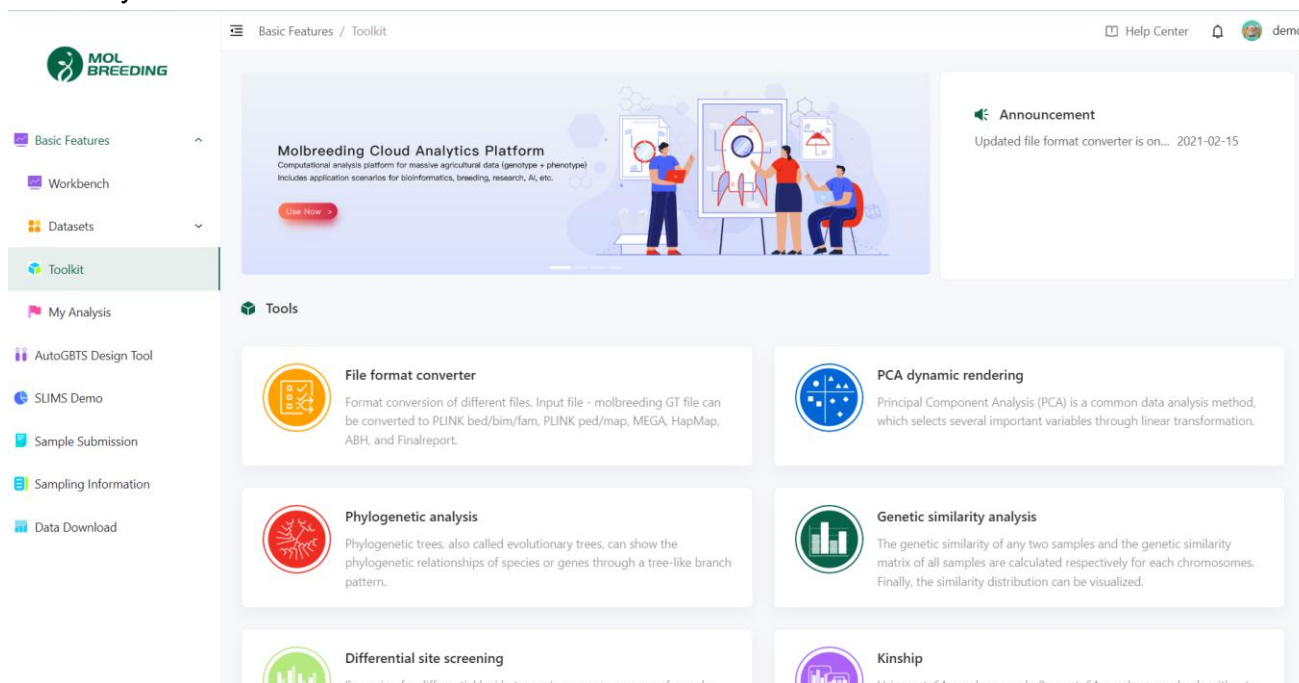


The screenshot displays the 'Data Download' section of the MolBreeding portal. The interface includes a sidebar with navigation options: Basic Features, AutoGBTS Design Tool, SLIMS Demo, Sample Submission, Sampling Information, and Data Download (highlighted). The main content area shows a grid of project cards. Each card displays a Project ID, a description, completion status, update time, and sample count. Below each card are buttons for 'Report', 'Download', and 'SFTP'. The 'SFTP' button for the first project (PE20260903013440) is highlighted with a red box.

Below the project cards, an 'SFTP' modal window is open. It contains a section for 'Download Data Files (VCF, BAM, FASTQ)' with input fields for Host, Port, Username, and Password. Below this is a section titled 'SFTP Data Retrieval Guides' with the instruction 'Select your operating system for protocol-specific instructions:'. Two buttons are shown: 'SFTP for Windows' (with a Windows logo) and 'SFTP for MacOS' (with an Apple logo). Both buttons are highlighted with a red box.

Data Analysis:

1. On the left-hand side, click the **Toolkit** to access automated bioinformatics tools for further data analysis.

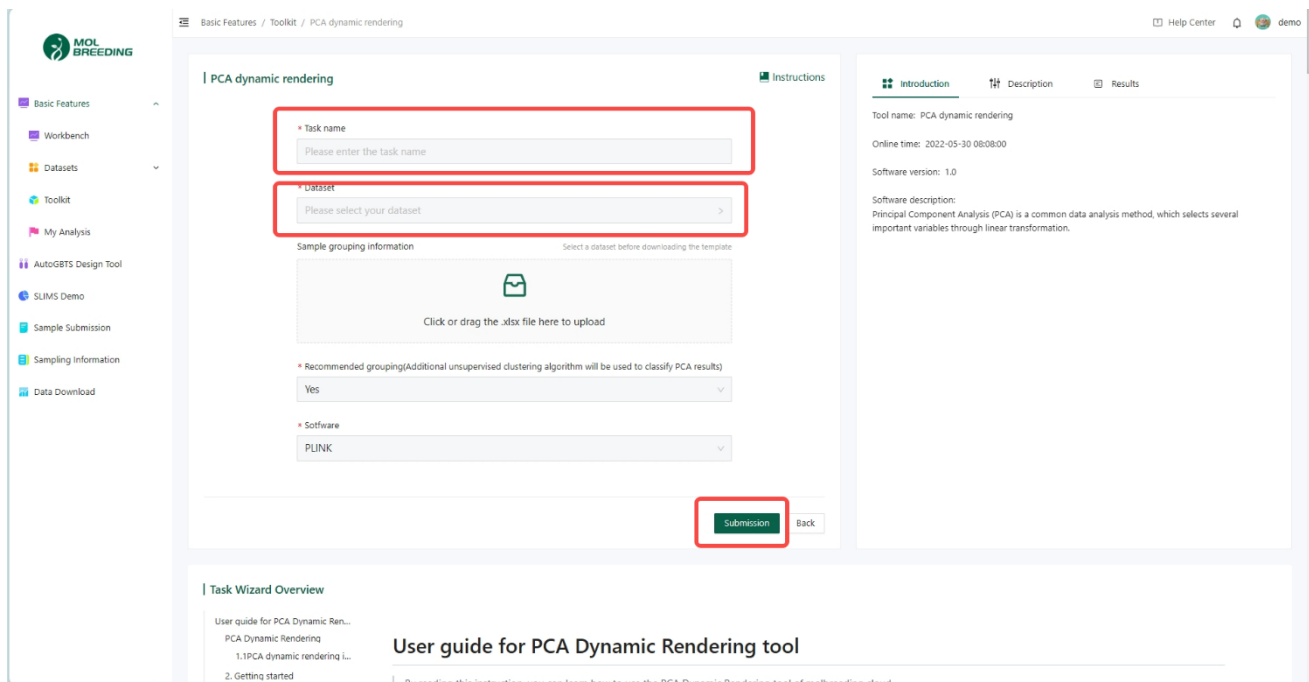


The screenshot displays the Molbreeding Cloud Analytics Platform interface. On the left, a sidebar menu lists various sections: Basic Features, Workbench, Datasets, **Toolkit** (highlighted), My Analysis, AutoGBTS Design Tool, SLIMS Demo, Sample Submission, Sampling Information, and Data Download. The main content area is titled 'Basic Features / Toolkit' and features a large banner for the 'Molbreeding Cloud Analytics Platform' with a 'Use Now' button. Below the banner, an 'Announcement' box states: 'Updated file format converter is on... 2021-02-15'. The 'Tools' section is organized into a grid of six cards:

- File format converter**: Format conversion of different files. Input file - molbreeding GT file can be converted to PLINK bed/bim/fam, PLINK ped/map, MEGA, HapMap, ABH, and Finalreport.
- PCA dynamic rendering**: Principal Component Analysis (PCA) is a common data analysis method, which selects several important variables through linear transformation.
- Phylogenetic analysis**: Phylogenetic trees, also called evolutionary trees, can show the phylogenetic relationships of species or genes through a tree-like branch pattern.
- Genetic similarity analysis**: The genetic similarity of any two samples and the genetic similarity matrix of all samples are calculated respectively for each chromosomes. Finally, the similarity distribution can be visualized.
- Differential site screening**: Screening for differential loci between two or more groups of samples.
- Kinship**: Using neta64, make-normal, n or neta64, make-normal algorithm to...

Continued on the following page.

- Select the analysis tool you want to use, name the analysis task, click "Dataset", select the data you want to analyze, submit the data, and the data will enter the automatic analysis process.



Basic Features / Toolkit / PCA dynamic rendering

Instructions

Introduction Description Results

Tool name: PCA dynamic rendering
Online time: 2022-05-30 08:08:00
Software version: 1.0
Software description: Principal Component Analysis (PCA) is a common data analysis method, which selects several important variables through linear transformation.

* Task name
Please enter the task name

* Dataset
Please select your dataset

Sample grouping information
Select a dataset before downloading the template

Click or drag the .xlsx file here to upload

* Recommended grouping(Additional unsupervised clustering algorithm will be used to classify PCA results)
Yes

* Software
PLINK

Submission Back

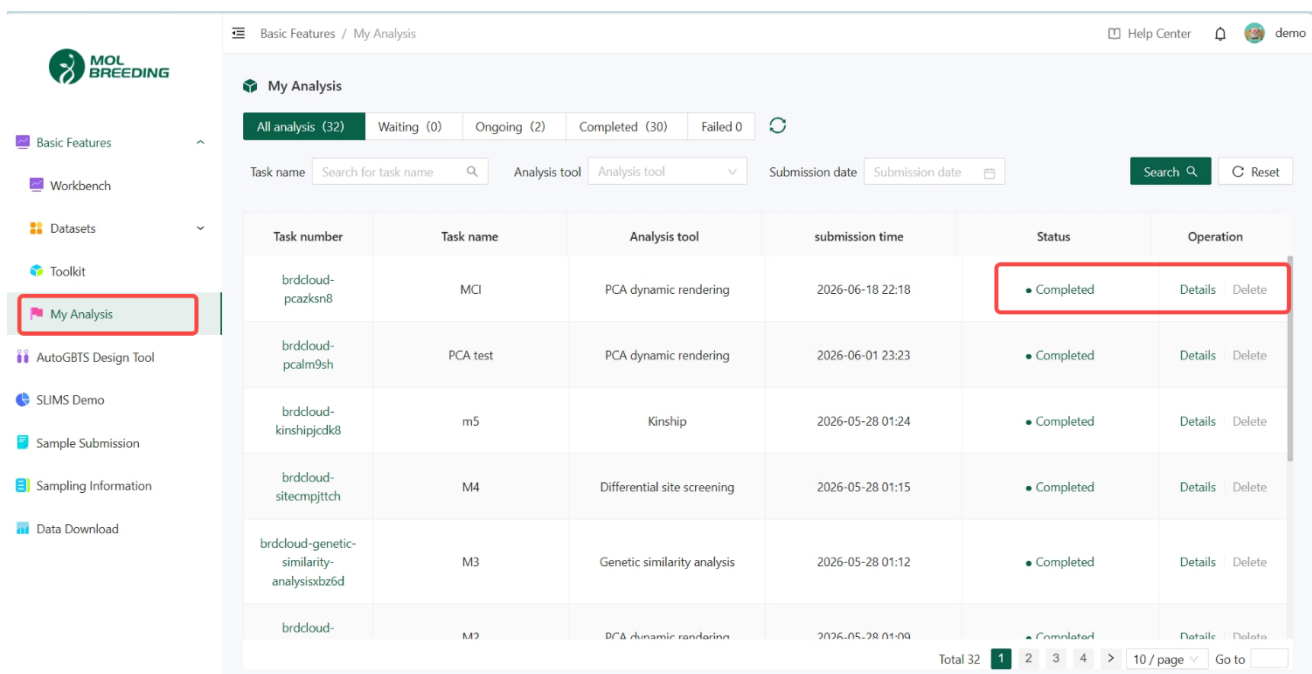
Task Wizard Overview

User guide for PCA Dynamic Ren...
PCA Dynamic Rendering
1. PCA dynamic rendering L...
2. Getting started

User guide for PCA Dynamic Rendering tool

By reading this instruction, you can learn how to use the PCA Dynamic Rendering tool of molbreeding cloud

- Click the "My Analysis" tab on the left to open all completed analyses. When a workflow shows "Completed", click "Details" to refine your charts or download them directly.



Basic Features / My Analysis

Help Center demo

My Analysis

All analysis (32) Waiting (0) Ongoing (2) Completed (30) Failed 0

Task name Search for task name Analysis tool Analysis tool Submission date Submission date Search Reset

Task number	Task name	Analysis tool	submission time	Status	Operation
brdcloud-pcazksn8	MCI	PCA dynamic rendering	2026-06-18 22:18	Completed	Details Delete
brdcloud-pcalm9sh	PCA test	PCA dynamic rendering	2026-06-01 23:23	Completed	Details Delete
brdcloud-kinshipjcdk8	m5	Kinship	2026-05-28 01:24	Completed	Details Delete
brdcloud-sitecmpjtth	M4	Differential site screening	2026-05-28 01:15	Completed	Details Delete
brdcloud-genetic-similarity-analysisixbz6d	M3	Genetic similarity analysis	2026-05-28 01:12	Completed	Details Delete
brdcloud-	M2	PCA dynamic rendering	2026-05-28 01:09	Completed	Details Delete

Total 32 1 2 3 4 10 / page Go to