

I'm not a bot

































Hiplot is a comprehensive, open, and advanced one-stop platform for biomedical visualization and analysis, which includes four main modules: Cloud Tools, Cloud Workflow, Cloud Study, and Cloud Market. The Cloud Tools module enables customized omics data full-process automatic analysis. The Cloud Study module covers a complete series of tutorials on life science data analysis, from beginner to expert levels. On Hiplot, you can also learn the latest bioinformatics analysis techniques, discover the hottest scientific research news, publish your custom service requests on the Cloud Market, or share your excellent code with the world. Hiplot - focused on research, serving health. Utilizing Hiplot's proprietary omics analysis framework and leveraging WDL and Docker technologies, we have established a novel computational platform for omics analysis, built atop high-performance computing clusters. This platform offers users an efficient and convenient experience. It adheres to the open standards set by the GA4GH community, incorporating a wealth of workflow tools and public datasets for modular and versioned workflow management. There are six major analytical sections built-in: genomics, transcriptomics, proteomics, metabolomics, microbiomics, and epigenomics. The Cloud Workflow module provides the latest global software standards and open standards for omics analysis. Hiplot workflows are categorized into six main types: transcriptome (RNA), genome (DNA), proteome, metabolome, microbiome, and epigenome. Additionally, for ease of search, common tools are aggregated into one category. Select the required tool and click to enter the platform to access the detailed page. On the details page, you can view the product introduction, application fields, cases, version records, and pricing standards. Common pricing standards are based on a basic fee plus data volume charges. Before use, you can click on the DEMO tutorial button in the center to add a DEMO task to your task center for inspection. DEMO tasks do not have all the functions of regular tasks; they cannot perform drawing modifications or apply changes to the report and are only for viewing report formats and workflow listings. After inspecting the DEMO task, click Start Analysis to begin submitting data and analyzing it through the cloud workflow. Click Start Analysis to begin submitting a cloud workflow task. The submission process is divided into four steps: Project Information - Data Input - Analysis Workflow - Begin Execution. Project Information Fill in the relevant project details, including: Project name: Enter according to the project content description. Enter according to the project content description. Select species Experimental Platform: Select experimental platform Experimental type: Choose "Other" Data Import The data import page has two tabs: Sample Data and Sample Information, which can be switched by clicking on the top left corner of the page. In the Sample Information tab, fill in the sample information. This tab consists of a sample information table, where each row corresponds to the sample data files you added; the first column is for file names, and the second column is for sample names, while the other columns are for grouping. You can modify the number of groups by adding/deleting group buttons, with a minimum of one and up to five groups supported. Sample names and groups can be filled in at will according to the actual situation. It is recommended to use English names here. Moreover, you can download the table template file on the top right corner, complete it locally in EXCEL or similar software, and then upload it to automatically fill in sample information. Analysis Workflow Here you set the parameters specific to the workflow, which may affect its operation. Please refer to the instructions on the right side of the page for settings. Begin Execution The left side of this page shows the flowchart, and the right side displays the task billing interface. If it's a free tool, you can directly click Start Analysis to submit the analysis. Otherwise, first click to pay to complete the payment, and then click Start Analysis. After submitting your task, you can view the real-time progress in the task center; click the drop-down arrow on the far right of the task list to reveal the steps' running process and status, and to download intermediate results. If a task fails, you can click the pencil button to edit the parameters and resubmit. However, you cannot modify the sample data files (due to billing issues). If you encounter problems, contact customer service for assistance. Once the process task is fully completed, you can view the results and download the report. If you wish to adjust the results of the report, refer to the next section to view and modify the results. After the cloud workflow task runs successfully, you can click the View button in the task list to enter the results viewing page. The result viewing page includes the following parts: 1) The final report page; 2) Project overview page; 3) Analysis guide page; 4) Group information page; 5) Download results page. The final report page is divided into two parts: the top part is the report content, and the bottom part is the report information. The report content can be downloaded as a PDF file or a Word document. The report information can be downloaded as a PDF file or a Word document. The report content is determined by the workflow tools themselves. If you need to modify a plot in the report, you can find the corresponding section on the right, adjust the parameters, and submit until you are satisfied with the result. At that point, clicking on Store in Report will save the current plot into the final report. Before clicking Store in Report, there will be no changes to the report. The Group Information page allows you to modify sample groups, delete certain samples, and batch execute subsequent analysis tasks. The Sample Information page is divided into three parts: Sample Information: It's possible to modify sample names, group information, and add or remove samples. You can edit the group content by adding or removing groups via downloading and uploading the template. On the far right, you can use the checkboxes to add or remove samples. Note: It is not recommended to change the sample names here. Parameter Settings: Set the parameters for this batch execution task. Analysis Contents: Set the tasks that need to be executed. Note that some subtasks must be performed or cannot be executed again. The content set in the sample information and parameter settings will only take effect if selected here and re-executed. Here, the task ID starting with BATCH distinguishes it from single modifications starting with EDIT, which you can switch to view in each subtask detail. After all settings are complete, click the Submit button to modify the group information and batch execute tasks. For smaller files, direct web upload is possible. For larger files, Hiplot offers FTP for uploading, as follows. First, download the corresponding client version from the interface shown below and click the Get Username and Password button. After downloading the client, click the Quick Connect. Figure 1.5: FTP Login The first time you connect, you may receive a prompt like the one below; confirm to proceed. Then, you are ready to start uploading files. Please note that the FTP file service provided by Hiplot can only be used for cloud workflow tasks. Once files are uploaded, they cannot be downloaded, deleted, or renamed, and files not used for a long time may be cleared. Figure 1.6: FTP Confirmation The Cloud Marketplace consists of two parts: the Service Mall and the Demand Market. The Service Mall mainly sells products related to the Hiplot website and other services. For detailed information and usage methods, please refer to the product content description. The Demand Market provides an open platform for information exchange, where you can post your requirements to solve specific problems, or accept commissions from others. If you have any suggestions for improvement of the self-operated tools on the website, you can also put forward your ideas here, and it's completely fine even without offering a reward. There is a feedback button located at the central right side of the website. Should you have valuable suggestions, please submit them to the website. If adopted, you will be rewarded with Hi coins. Hi coins are a unique virtual currency on the Hiplot platform. Users can obtain Hi coins through registration, point rewards, and other means, which can be used for deductions and discounts when purchasing services. Note that Hi coins are not equivalent to real currency, cannot be purchased with cash, and not for sale within the platform; they serve only as a measure of user activity and as an assessment of developer levels. In addition, a certain amount of Hi coins will be deducted once a user is found to have addressed violations when using the platform's rules. For the specific management system of workflows, please refer to the Platform Vision and Holding System. Users can obtain Hi coins through various methods, with Hi coins and SVI members having double privileges in certain acquisition rules. For specific rules and VIP/SVI Hi coins acquisition rules, please refer to Figure 1.7: Hi Coins Acquisition Rules. The Cloud Marketplace is a platform for information exchange, where you can post your requirements to solve specific problems, or accept commissions from others. If you have any suggestions for improvement of the self-operated tools on the website, you can also put forward your ideas here, and it's completely fine even without offering a reward. There is a feedback button located at the central right side of the website. Should you have valuable suggestions, please submit them to the website. If adopted, you will be rewarded with Hi coins. Hi coins are a unique virtual currency on the Hiplot platform. Users can obtain Hi coins through registration, point rewards, and other means, which can be used for deductions and discounts when purchasing services. 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