AdvancedFileImporterManual

The advanced file importer enables the import of files from different sources to create input files that are suitable for cellHTS2 analysis.

Page Contents

Starting the advanced file importer

The advanced file importer can be accessed through clicking on the corresponding link in step 2 (plate file upload).

Advanced File Importer

[   ] (Durchsuchen...)

The link will open a new page:

Upload Queue

0 Files Uploaded

Upload [Cancel All Uploads]

Delete all uploaded Files

☑ Data Files contain Headlines such as Plate, Well, Replicate...

☐ Data Files contain Multi Channel Data

Number of Replicates

[1]

a. Choose filetype (please note: if you choose excel, only Excel 95, 97, 2000, XP, and 2003 are supported)

[please select ▾]

Sheet Number

[   ]

Csv Delimter

[\t   ]

[format data]

import generated files to web cellHTS2

Uploading text data files

Clicking on "Upload" button opens form that allows the selection of multiple files by using Ctrl + arrowkeys or Shift + mouse selection (requires FLASH player to work properly). Files could be either plate reader files or a complete table with all raw data and annotation information.

If you cannot multiselect files on this page, please install the Adobe FLASH Plug-in and restart your browser. Please note: the multi-upload feature will recognize empty or in case files are to large.

> Imported data file need to be complete (no missing wells) and should only contain numerical data in the data columns. Data should be sorted by plate and well position.

> The maximum upload file size is limited to 3MB

> Some users reported that the upload field is not displayed. This appears to be caused by a bug in the 64bit FLASH plugin (which is still experimental). If you see the following screen without an upload button you probably do not have a stable 64-bit linux FLASH version. Clearing the cache/temporary files and restarting the browser is temporary solution. This is only a temporary fix until a stable version of the FLASH plug-in is available.
>
> Advanced File Uploader. A manual can be found here. A quickstart guide can be found here.
> **Upload Queue**
>
> 0 Files Uploaded
> Cancel All Uploads

If you want to delete uploaded files and reset all settings you have made in the advanced file importer page, click on the "Delete all uploaded Files" button. Please note: because the advanced file importer can upload multiple file, the use of ZIP archives has been disabled. In order to upload ZIP archives, use the normal data file uploader (Step 2 in the web cellHTS workflow)

Reformatting text data files

As a next step, the importer needs additional information how different columns in the data files need to be interpreted. The importer can deal with both header and headerless files. Please note: All of your uploaded datafiles should be in the same header and file format.

A headerline is defined as the first line in the file which contains information about the column names. Shown below are examples of data files without and with a header line:

without header	with header

```
RA01D1.TXT
RA01D1  A01  2300
RA01D1  A02  1650
RA01D1  A03  1280
RA01D1  A04  1040
RA01D1  A05  340
RA01D1  A06  1040
RA01D1  A07  30
RA01D1  A08  1420
RA01D1  A09  740
RA01D1  A10  1390
RA01D1  A11  1290
RA01D1  A12  1710
RA01D1  A13  1520
RA01D1  A14  1540
RA01D1  A15  1270
RA01D1  A16  920
RA01D1  A17  1600
RA01D1  A18  1360
RA01D1  A19  1230
RA01D1  A20  2000
RA01D1  A21  1480
RA01D1  A22  2020
RA01D1  A23  290
RA01D1  A24  1610
RA01D1  B01  1800
RA01D1  B02  2020
RA01D1  B03  1160
RA01D1  B04  1690
RA01D1  B05  1860
RA01D1  B06  1900
RA01D1  B07  690
```

plate	position	well	score		wellAnno	
Accession						
68	303	M15	8.58	sample	sample	16930
15	258	K18	8.53	sample	sample	4850
14	105	E09	7.8	sample	sample	6100
11	41	B17	7.7	sample	sample	5190
68	39	B15	7.6	sample	sample	25550
29	349	O13	7.59	sample	sample	5460
68	159	G15	7.36	sample	sample	28290
68	252	K12	7.29	sample	sample	29160
20	374	P14	6.92	sample	sample	6450
43	254	K14	6.83	sample	sample	6550
46	299	M11	6.78	sample	sample	7040
11	132	F12	6.76	sample	sample	9040
32	246	K06	6.74	sample	sample	14440
32	203	I11	6.74	sample	sample	14470
68	65	C17	6.71	sample	sample	37170
68	67	C19	6.68	sample	sample	37650
35	115	E19	6.64	sample	sample	13520
68	248	K08	6.63	sample	sample	38480
20	78	D06	6.62	sample	sample	7710
33	258	K18	6.61	sample	sample	10010
9	78	D06	6.6	sample	sample	6450
9	80	D08	6.6	sample	sample	6450
20	40	B16	6.57	sample	sample	7960
11	246	K06	6.57	sample	sample	10140
15	207	I15	6.54	sample	sample	14390
23	267	L03	6.5	pos	pos	26410
11	216	I24	6.4	sample	sample	11220
25	35	B11	6.36	sample	sample	5990

Next, it needs to be defined whether the files contain single or dual channel, and how replicates have been performed.

For text imports, it has further to be defined, which delimiter seperates different columns in the uploaded files. Typical delimeters are "\t" for tab, "\s" for whitespaces, ";" for semicolon separated and "," for csv-Files.

Next, click the **Format data** to process the files. A table will show the assigned columns for the first uploaded file. The program attempts to automatically assign header lines which can be later changed by the user.

Uploading Excel data files

The file uploader also handles Excel files to be automatically processed into cellHTS2 compatible file formats (Excel 95-2003 are permissible file formats).

Creating data files

To create cellhts2 compatible data files, at least three columns containing plate, well and raw value information needs to be mapped.

> All three columns are essential for creating plate data files.

The importer tool will also check if well and value column are valid. For example a valid well column will be "A01", "A02", etc. A valid value column should be a non-letter integer or floating point number e.g. -10102.22

Filename: topTable_1rep_1chan.txt.out

plate	position	well	score	wellAnno	finalWellAnno	raw_r1_ch1	raw/PlateMedian_r1_ch1
68	303	M15	8.58	sample	sample	16930	0.0272

Column Name ⊖	Mapped To Column ⊕
Plate	1:plate ▼
Well	3:well ▼
Value	7:raw_r1_ch1 ▼

create files

creation of 68 datafiles succeeded
Please select if your files contain Plate Config data

Column Name ⊖	Mapped To Column ⊕
WellAnno	please select ▼

create files

Please select if your files contain Annotation data

Column Name ⊕	Mapped To Column ⊕
GeneID	please select ▼

Add further columns: drop all ▼

create files

If there were problems with importing the data files, an error message will be shown.

Creating plate configuration and annotation files

The Advanced File Importer can also create suitable plate configuration and annotation data files, if such data has been provided in one of the files during import (e.g. a previous topTable or an Excel file that contained additional information).

Two **Select boxes** will be shown to create the cellHTS2 compatible files:

1. A cellHTS2 compatible plate config file required information plate, well and well annotation information (e.g. whether wells contain sample, positive or negative control reagents). Since we already have selected the appropriate plate and well, the user can now select the appropriate column that contains the well annotation. After clicking **Create files**, a suitable plat configuration file will be generated.

> The well annotation column can only contain the following values: pos, neg, sample, other, empty, cont1, flagged, contaminated, cont

2. To create annotation files, map the appropriate column to the GeneID column. Further columns that should appear in the annotation (e.g. reagent IDs) can be added with the "Add further columns" tab. More then one column can be added by selecting **new items**. If all the selected entries should be removed, select **Drop all**.

Please select if your files contain Annotation data

Column Name ⊕	Mapped To Column ⊕
GeneID	10:GeneID ▼

Add further columns: 5:wellAnno ▼

selected columns:5,8,10

create files

Transfer generated files to the input queue of web cellHTS2

Next, click on **import generated files to web cellHTS2** to confirm the newly generated files and add them to the input queue of web cellHTS2.

After you clicked on the import to cellHTS2 link all of your settings on the advanced file importer will be resetted

If only data files were imported, the user will be redirected to **Step 2** in the analysis workflow to create the appropriate configuration files, otherwise it proceed to the last necessary step in the workflow.