Tutorial 9B: Data Export
Data Export

Right-click the experiment ⇒ select datasets ⇒ select raw datasets…if you want To export raw data.

Note: user can also select normalized data to export.
Data Export

All the selected data will be highlighted.
Right-click the highlighted data, select Export ⇒ Export single-platform data as spreadsheet.
Data Export – single-platform data spreadsheet

Choose the output options.

Intensity Data Fields
Data Export –
single-platform data spreadsheet

Dataset Filtering

Here you can further refine your choice of datasets if necessary, by highlighting datasets and clicking the “Choose” button. If any datasets are chosen (checked icon) when the dialog is dismissed, then only those datasets will be included in the output.
Data Export – single-platform data spreadsheet

Gene Filtering

Select genes for the export criteria
Data Export –
single-platform data spreadsheet

Spot Fields
Data Export – single-platform data spreadsheet

This panel controls column naming for dataset columns in the output. Depending on the naming scheme for the datasets, some information may be redundant while necessary information may have been omitted, which can be corrected here.
Data Export –
single-platform data spreadsheet

Save to your folder
Data Export – Export original files
Data Export – original data files
Data Export- in narrow format

Choosing this option, you will save all the exported data in one file.
Export Data – to JMP/Genomics

The user need JMP v6.0 or higher to open the exported files.
Export Data – to JMP/Genomics (continued)

Type in the name for exp design table and data table. Then choose the location for the exported data.
Export Data – to JMP/Genomics (continued)

Once the exported data are saved, open JMP, click Genomics pull-down menu, choose “Data set Creation ⇒ Other Expression ⇒ ArrayTrack”
Export Data – to JMP/Genomics (continued)

Choose the exp design file and the folder containing the data file.
Export Data – to JMP/Genomics (continued)

Process ArrayTrackInputEngine has generated the following SAS data sets. You can view them using SAS labels by checking the box below, otherwise SAS names are used.

- C:\temp\expdestable.sas7bdat [Open]
  12 obs, 17 variables

- C:\temp\expdestable_data.sas7bdat [Open]
  1031 obs, 14 variables

- C:\temp\expdestable_atan.sas7bdat [Open]
  1031 obs, 9 variables

SAS Message
Export data – to DrugMatrix

This function is only for the data of a few array type

Only AFFY_RAE230A, AFFY_RG230_2 and GEHC_RAT_WHOLEGENOME300031 array can have this function now.
Export data – to R Bioconductor

Select dataset, right-click, choose “Export” ⇒ R-interface
Export data – to R Bioconductor

- Assign dataset to groups, then click button “Export data to R…”. Type a name for R variable, then click OK button.
Mixed Platform Exporting

When datasets from multiple platforms are exported together, a gene identifier type must be chosen to serve as a “match field” (e.g. “REFSEQ”). Filtering based on a gene identifier may also be done. For single-platform datasets the single-platform export should be used, as it supports more output options.
Mixed Platform Exporting