

Protigy

How-to: Data upload and file formats

BroadE Proteomics Workshop February 28, 2018

How do I get my data into Protigy?

Option 1: You are collaborating with us:

- We upload the data for you and create a Protigy session
- You are all set to play with your data

Option 2: You want to upload your own data and

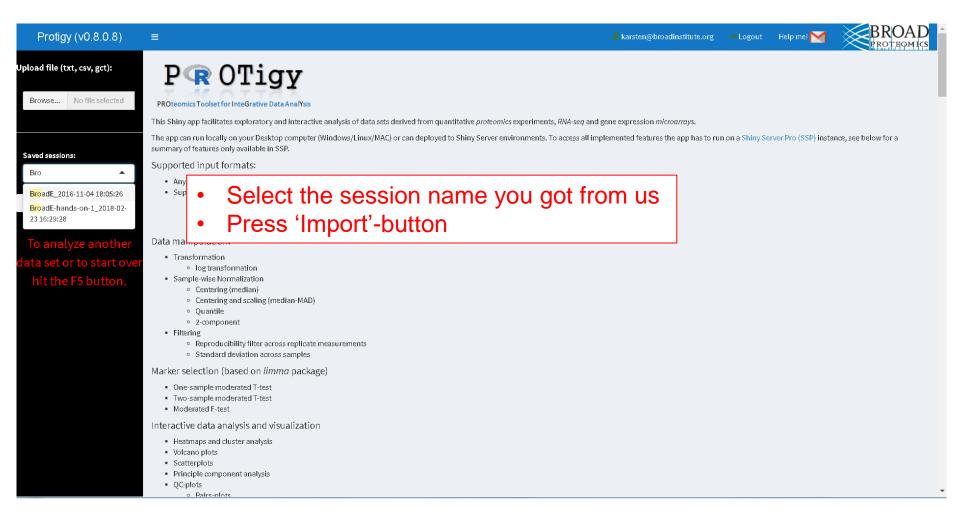
- A) the data is in GCT1.3 format:
 - just go ahead and upload the data file

B) your data is NOT in GCT 1.3 format

- Protigy supports multiple text formats
 - tab/comma/semicolon-separated (txt, tsv, csv, ssv, GCT1.2)
- Experimental design file to assign phenotype labels to sample columns

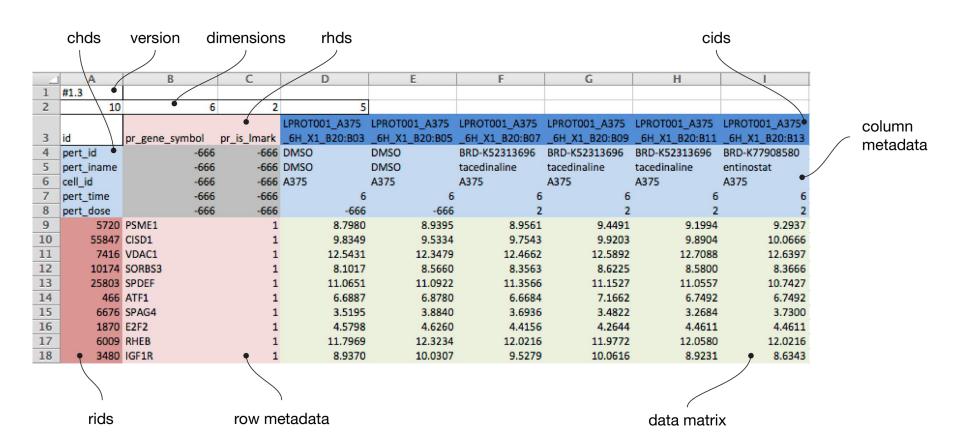
Data import: Option 1

http://shiny-proteomics.broadinstitute.org:3838/protigy/



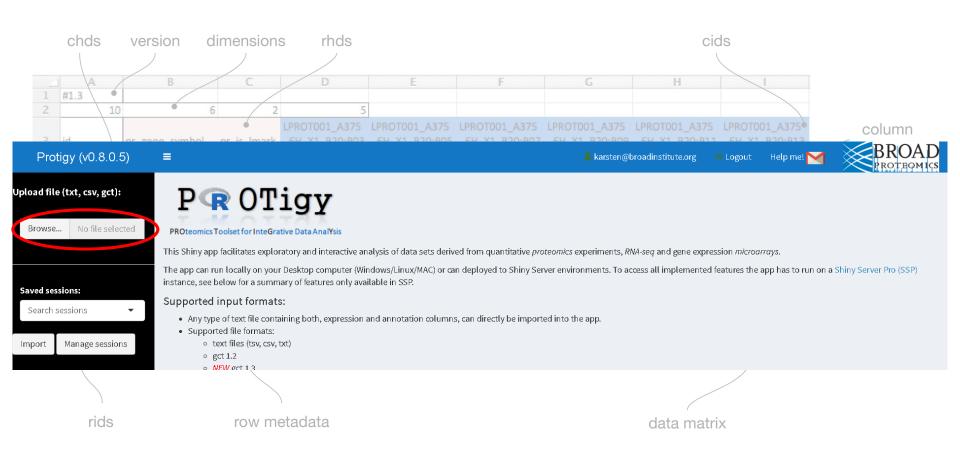
Data import: Option 2A (GCT 1.3)

GCT1.3 files enable storing of both row and column metadata.



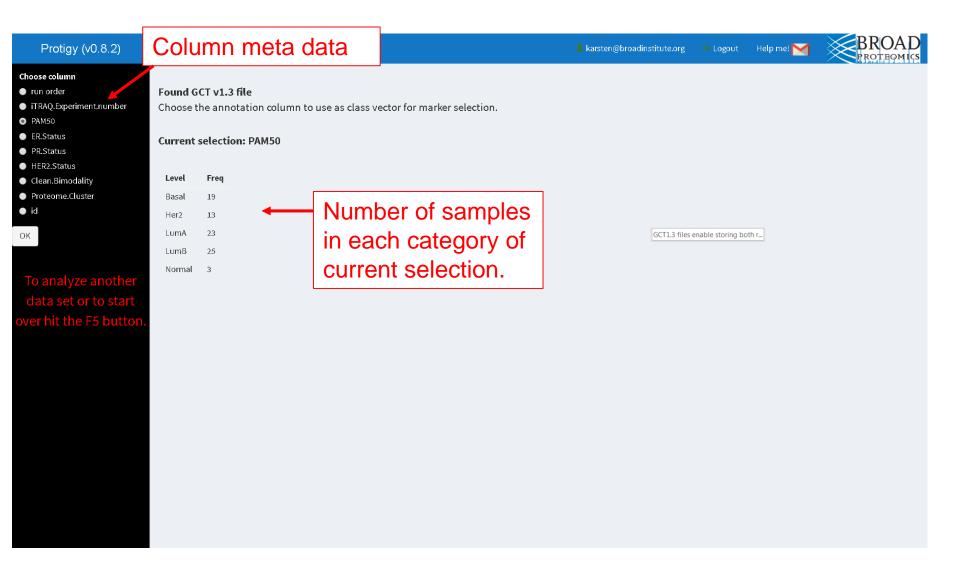
Data import: Option 2A (GCT 1.3)

GCT1.3 files enable storing both row and column metadata.



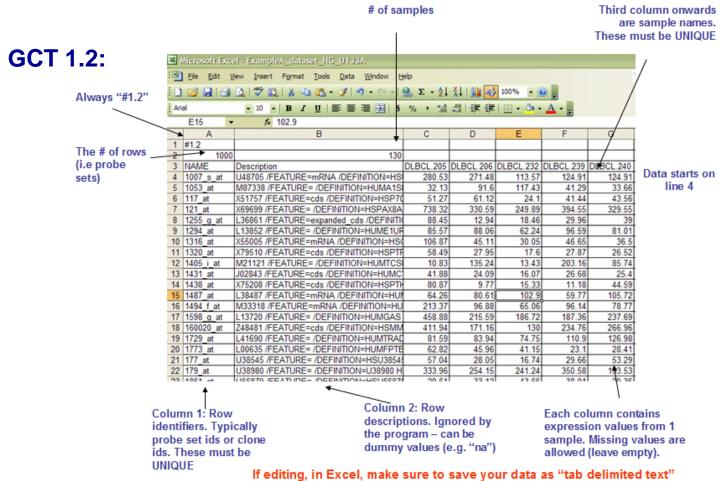
Data import: Option 2A (GCT 1.3)

Experimental condition to compare can be selected from column meta data:



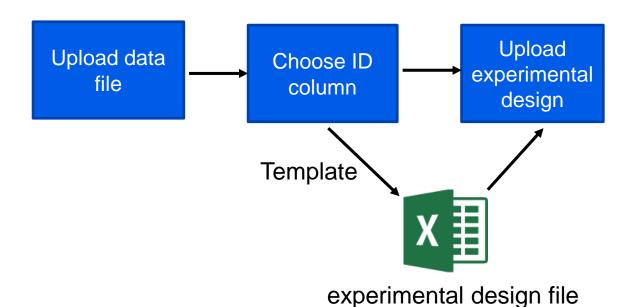
Data import: Option 2B

- Supports upload of data tables in various text-based formats
 - tab-separated (txt, tsv, GCT 1.2), comma-separated (csv), semicolonseparated (ssv)



Data import: Option 2B

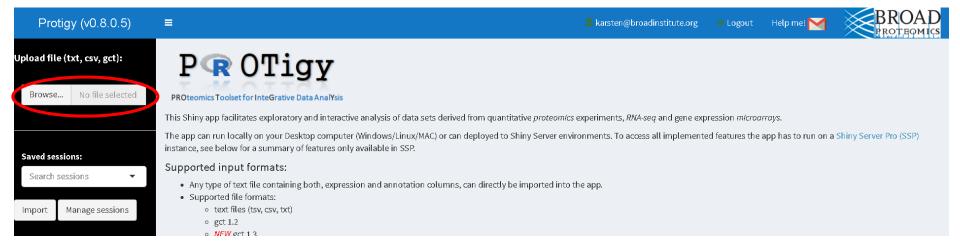
- Supports upload of data tables in various text-based formats
 - tab-separated (txt, tsv, GCT 1.2), comma-separated (csv), semicolon-separated (ssv)
- Requires upload of an 'experimental design'-file in order to:
 - separate expression columns (e.g. log2-ratios) from annotation columns (e.g. protein description)



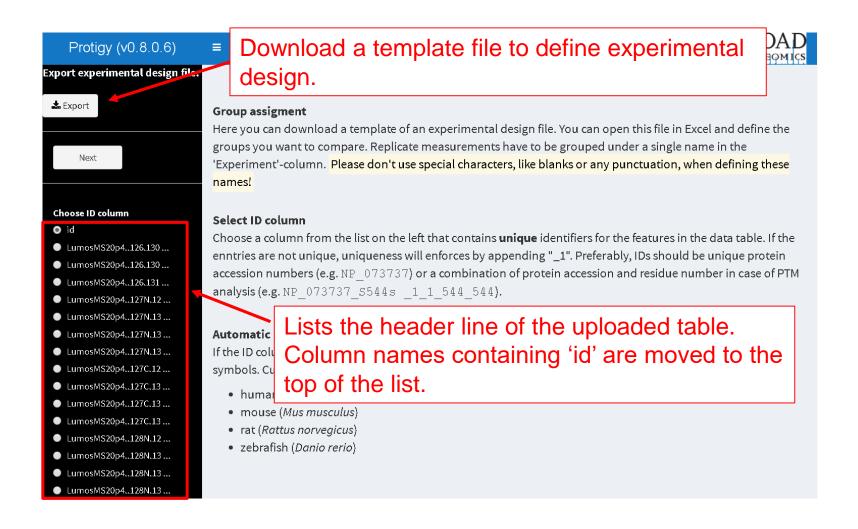
Data import: Option 2B

Upload local data set stored in text format.

- tab or comma-separated (csv, tsv, txt)
- gct 1.2



Data import: Option 2B - select unique identifiers



Data import: Option 2B - define the experimental design

Column.Name Experiment LumosMS20p4..126.130C LumosMS20p4..126.130N LumosMS20p4..126.131..4 LumosMS20p4..127N.126 6 LumosMS20p4..127N.130 T2 LumosMS20p4..127N.130 LumosMS20p4..127N.131. LumosMS20p4..127C.126 10 LumosMS20p4..127C.130 T3 LumosMS20p4..127C.130 12 LumosMS20p4..127C.131. 13 LumosMS20p4..128N.126 T4 14 LumosMS20p4..128N.130 15 LumosMS20p4..128N.130 16 LumosMS20p4..128N.131. 17 LumosMS20p4..128C.126 LumosMS20p4..128C.130 LumosMS20p4..128C.130 20 LumosMS20p4..128C.131. 21 LumosMS20p4..129N.126 22 LumosMS20p4..129N.130 23 LumosMS20p4..129N.130 24 LumosMS20p4..129N.131. T4 25 LumosMS20p4..129C.126 26 LumosMS20p4..129C.130 27 LumosMS20p4..129C.130 T2 28 LumosMS20p4..129C.131. 29 LumosMS20p4..130N.126 30 LumosMS20p4..130N.130 31 LumosMS20p4..130N.131. 32 LumosMS20p4..130C.126 33 LumosMS20p4..130C.130 34 LumosMS20p4..130C.131. 35 LumosMS20p4..131.126..4 36 LumosMS20p4..131.130C. 37 LumosMS20p4..131.130N. 38 id 39 accession number numColumnsProteinObserved numSpectraProteinObserved 42 numPepsUnique accession numbers 45 protein_mw 46 subaroupNum

 Assign phenotype labels to expression columns

- Group replicate measurements under same label
- Columns without label will get carried trough the analysis as meta-data columns
- Save as tab-delimited text file

Row-meta data

header line of data table

Data import : Option 2B - upload experimental design file

