

Tutorial 10: Other Useful Functions



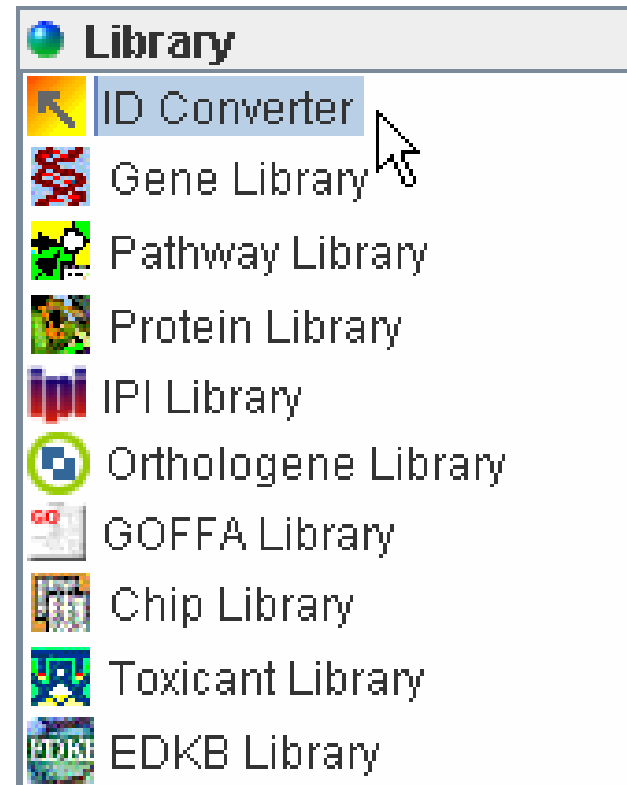
Other Functions in ArrayTrack

1. ID converter
2. Join table
3. Split table
4. Get unique ID

ID Converter

ID converter is a very useful tool that converts one kind of ID to another when user searching libraries with only a few available ID types

Double-click ID Converter
In the Library panel



ID Converter - continued

Select the input ID type

Paste the IDs in this box

Select the output ID type

1 Step1: Specify input ID type :
GENENAME
 Hs Mm Rn
 official name only

2 Step2: Enter your data
0610027B03Rik
Hprt
Fst
Pde6b
Arfp2
Tcfap2c

or specify input file (txt file) :
Browse Example

3 Select output ID types
LOCUSID

4 Convert Clear

GENES PROTEINS PATHWAYS IPI ORTHOLOGENE

More Info ... Select one -- Link To ... Select one -- Help

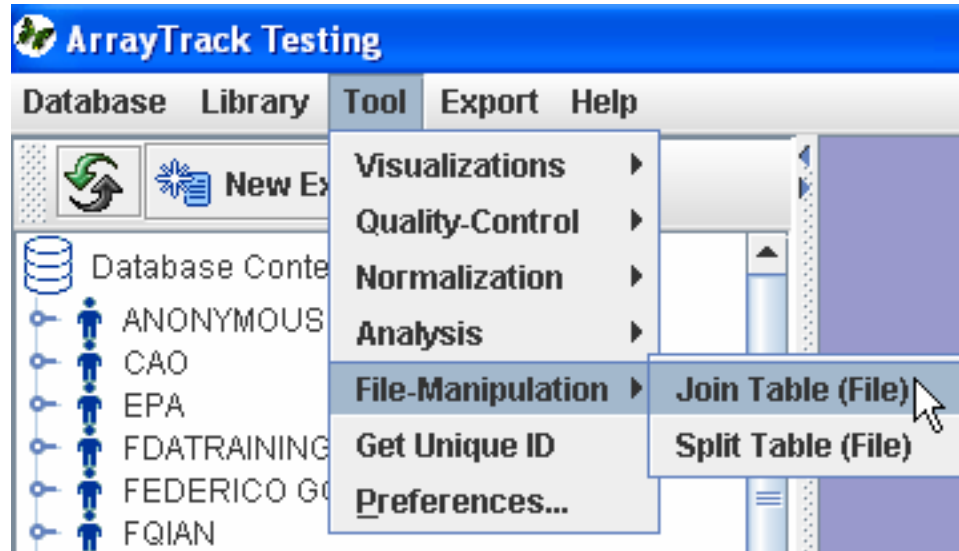
GENENAME-LOCUSID

ExportTable

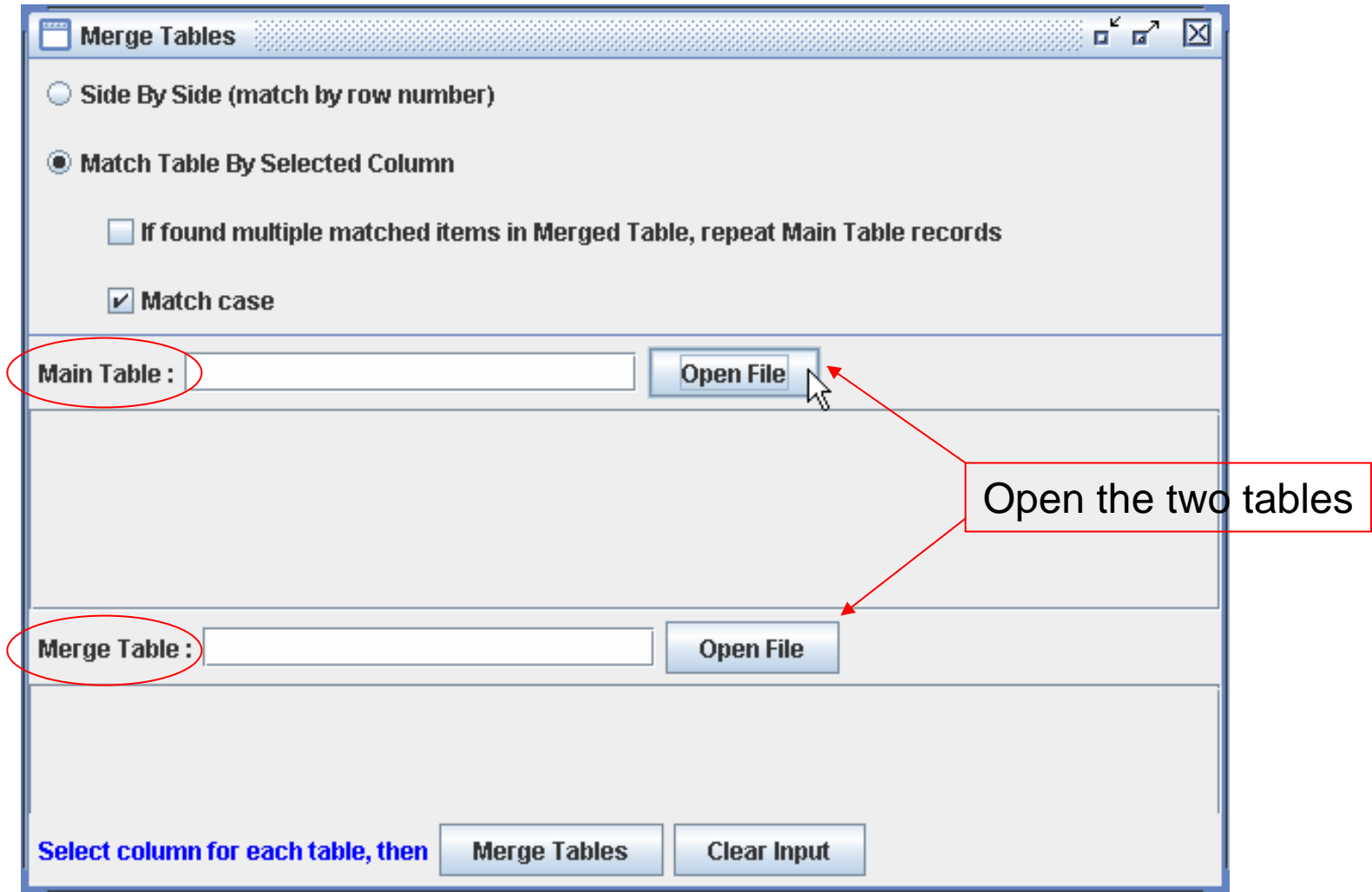
	GENENAME	LOCUSID
1	Abp1	26
2	Abp1	28988
3	Arfp2	23647
4	Cf11	1072
5	Fst	10468
6	Hprt	3251
7	Lmx1a	4009
8	Onecut1	3175
9	Pacsin3	29763
10	Pax7	5081
11	Pde6b	5158
12	Pgcp	10404
13	Pgcp	10404

Join Table

User can join two data tables according to a common ID



Join Table - continued



Join Table - continued

Merge Tables

Side By Side (match by row number)

Match Table By Selected Column

If found multiple matched items in Merged Table, repeat Main Table records

Match case

Main Table : 123geneMAS5_Fold1.5_P0.05 **Open File**

genelist_na...	expid	genebankacc	genename	locusid	unigeneid	swissprc
123geneM...	251	D84667	Pik4cb	81747		
123geneM...	251	AI013513	Csnk1d	64462		
123geneM...	251	M82855	Cyp2c13	171521		
123geneM...	251	J05181	Gclc	25283		
123geneM...	251	D31838				

Merge Table : 135gene_PermutationP0.05Fold1.5 **Open File**

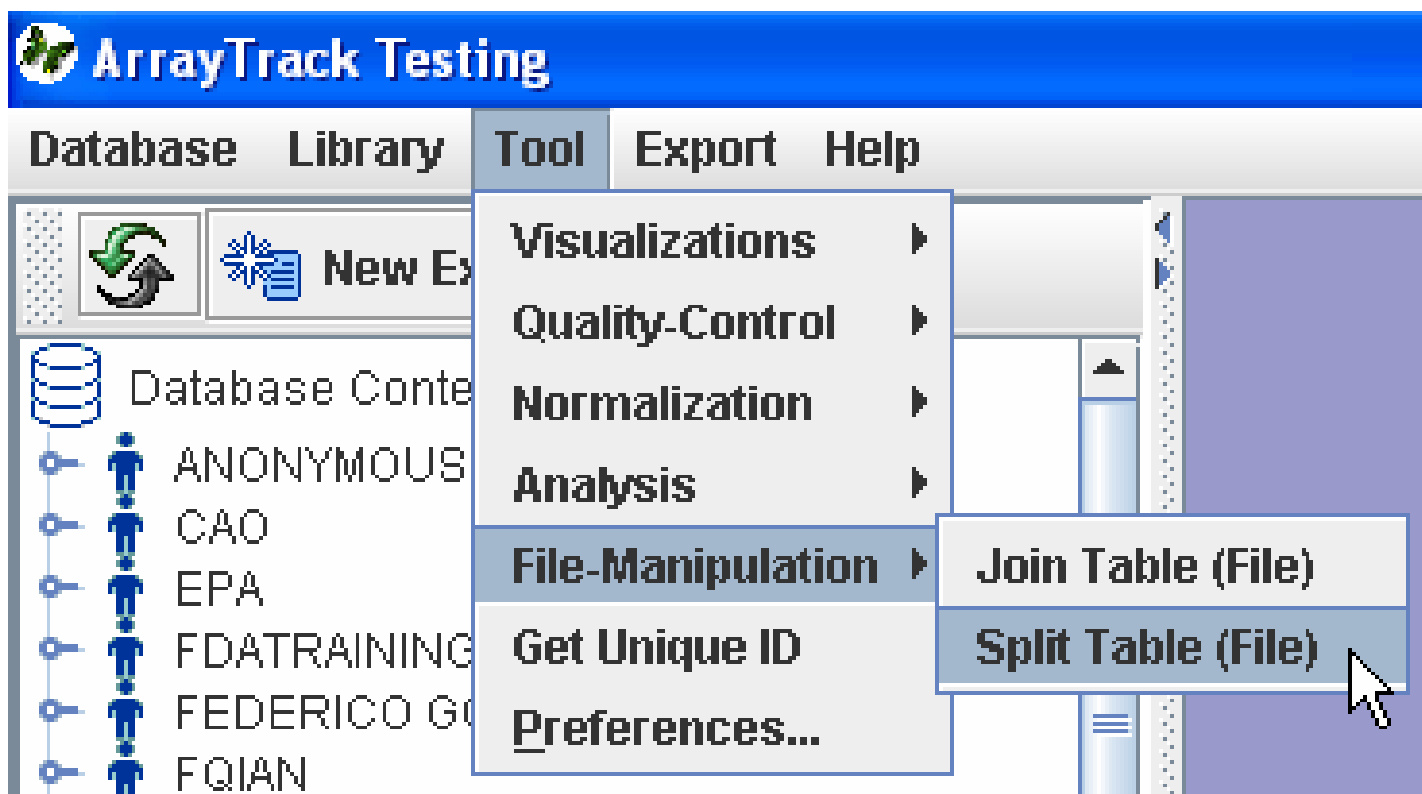
genelist_na...	expid	genebankacc	genename	locusid	unigeneid	swissprc
135gene_...	251	X06827	Hmbs	25709		
135gene_...	251	X55286	Hmgcr	25675		
135gene_...	251	X57988	Pxmp3	29534		
135gene_...	251	AI229291				
135gene_...	251	U17260	Nat1	116631		

Select column for each table, then **Merge Tables** **Clear Input**

Highlight the columns for merging

Split Table

ArrayTrack provides a tool for splitting a big spreadsheet to separated files.



Split Table - continued

Split File

By Columns By Rows

1 Step 1: Load Input File:

Open Input File Manually select first data row...

2 Step 2: Assign first column for the first two dataset:

First Column for DataSet 1: [X]

First Column for DataSet 2: [X]

3 Step 3: Save to folder :

DataFiles Root Directory [] Browse

4 Step 4: Start saving :

Split File

Click “Open Input File” button
To open the table file

Split Table - continued

Split File

By Columns By Rows

1 Step1: Load Input File:

N_DESCR_MFR	GEN_ID_MFR	LOCUSID	POS...	RE...	SPOTID	{AFX_1_A1} Biotin [A]	{AFX_1_A1} Original Flag	{AFX_1_A2} Biotin [A]	{AFX_1_A2} Original Flag
IM_005505.2 /D...	1552256_a_at	949	1		173067	3798.917	P	3455.846	P
IM_015140.1 /D...	1552257_a_at	23170	2		173068	1646.628	P	1507.641	P
IM_052871.1 /D...	1552258_at		3		173069	187.298	P	197.691	P
IM_080735.1 /D...	1552261_at	10406	4		173070	20.75	A	6.251	A
IM_138957.1 /D...	1552263_at	5594	5		173071	355.916	P	344.965	P

2 Step2: Assign first column for the first two dataset:

{AFX_1_A1} Biotin [A]

{AFX_1_A2} Biotin [A]

3 Step3: Save to folder :

DataFiles Root Directory

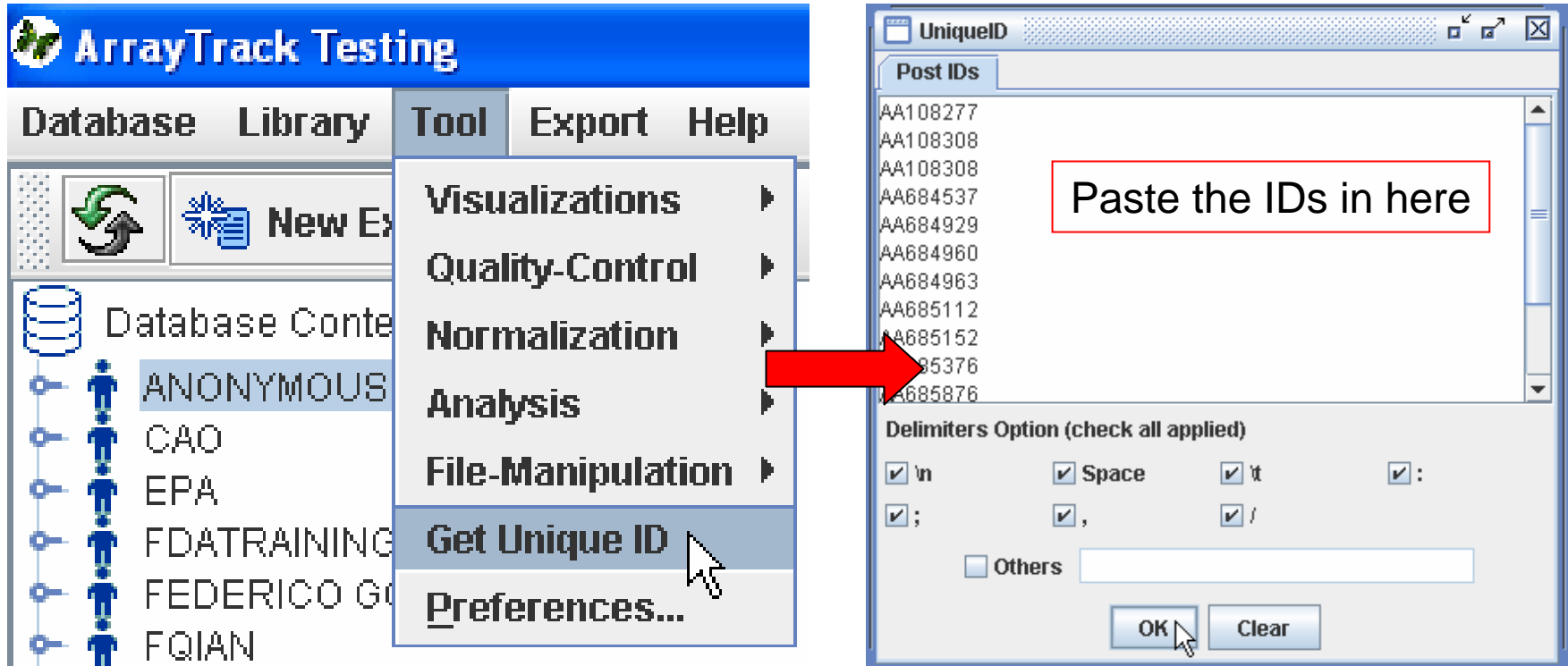
4 Step4: Start saving :

Select the column header of the first column for the first dataset, then click button "First Column for dataset 1". Then select the column header of the first column for the Second dataset, then click button "First Column for dataset 2".

Click Browse to find the folder to save the split files.

Get Unique ID

Using this tool, the user can find out how many unique IDs there are in a data file.



Get Unique ID - continued

The value in Column N represents the frequency of the ID in the data table

	ID	N
1	AA685112	1
2	AA685376	1
3	AA685903	1
4	AA108308	2
5	AA684963	1
6	AA684929	1
7	AA686031	1
8	AA686579	1
9	AA684960	1
10	AA685876	1
11	AA685152	1
12	AA108277	1
13	AA684537	1

Input Number:14; Returned Unique Number=13

This is not an unique ID