

Tutorial 11: Basic scripting for querying (raw and normalized) data and table



Querying Data

ArrayTrack provides a way to select a group of data easily. Users can take advantage of this convenience to select a bunch of data for further data analysis.

Query data from the database tree

The image shows a software interface for querying data from a database tree. On the left, a tree view under 'ANONYMOUS' shows a folder 'Affy_Rat_MAS5_only' with sub-items 'Gene Lists', 'D0_T12', and 'MAS5'. A context menu is open over the 'D0_T12' folder, with 'Select datasets' selected, and a sub-menu showing 'Select raw datasets...', 'Select normalized data', and 'Select any datasets...'. Below this, an 'Input' dialog box is shown with the title 'Select dataset descriptions containing:' and a text input field containing 'D0*'. The dialog has 'OK' and 'Cancel' buttons. On the right, a larger tree view shows the results of the query, with a red bracket highlighting the selected datasets. A red arrow points from the 'D0*' input field to the selected datasets in the tree. A red box at the bottom contains the text 'Only data containing "D0" will be selected'.

ANONYMOUS

- Affy_Rat_MAS5_only
 - Gene Lists
 - D0_T12
 - MAS5 (D0_T12_B_a) [file: Temp35270.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D0_T12_B_a)
 - D0_T12_B_b D0_T12_B(Biotin)
 - MAS5 (D0_T12_B_b) [file: Temp35272.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D0_T12_B_b)
 - D0_T12_C_a D0_T12_C(Biotin)
 - MAS5 (D0_T12_C_a) [file: Temp21347.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D0_T12_C_a)
 - D0_T12_C_b D0_T12_C(Biotin)
 - MAS5 (D0_T12_C_b) [file: Temp21349.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D0_T12_C_b)
 - D0_T12_D_a D0_T12_D(Biotin)
 - MAS5 (D0_T12_D_a) [file: Temp21355.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D0_T12_D_a)
 - D0_T12_D_b D0_T12_D(Biotin)
 - MAS5 (D0_T12_D_b) [file: Temp21357.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D0_T12_D_b)
 - D2_T12_B_a D2_T12_B(Biotin)
 - MAS5 (D2_T12_B_a) [file: Temp21343.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D2_T12_B_a)
 - D2_T12_B_b D2_T12_B(Biotin)
 - MAS5 (D2_T12_B_b) [file: Temp21345.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D2_T12_B_b)
 - D2_T12_C_a D2_T12_C(Biotin)
 - MAS5 (D2_T12_C_a) [file: Temp21351.txt]
 - Mean/Median Scaling, ifs=N,tv=1000.0,s=Median,sb=Y (D2_T12_C_a)

Input

Select dataset descriptions containing:

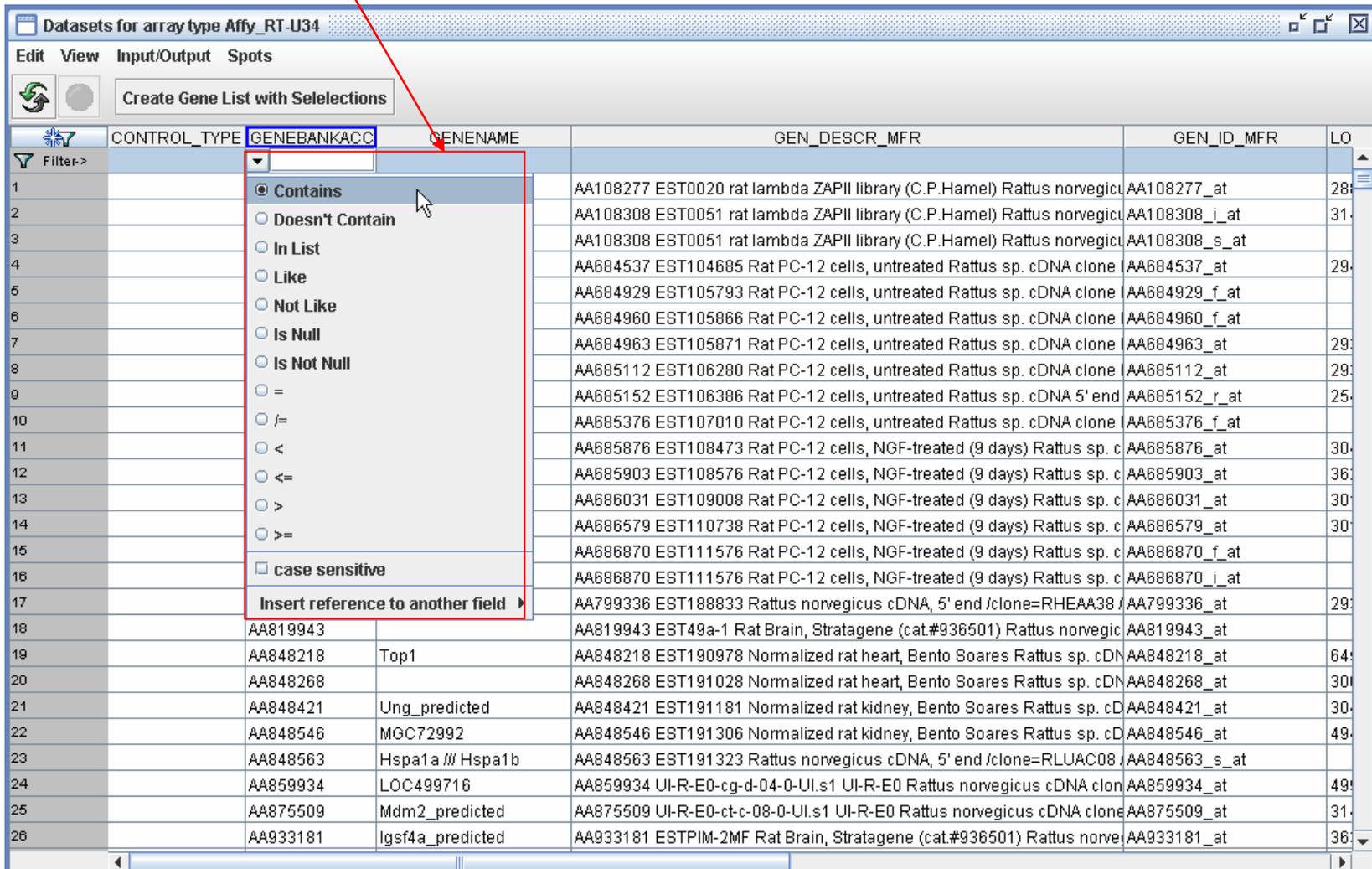
D0*

OK Cancel

Only data containing "D0" will be selected

Query data in tables

Various criteria for filtering data



Datasets for array type Affy_RT-U34

Edit View Input/Output Spots

Create Gene List with Selections

	CONTROL_TYPE	GENEBANKACC	GENENAME	GEN_DESCR_MFR	GEN_ID_MFR	LO
1				AA108277 EST0020 rat lambda ZAPII library (C.P.Hamel) Rattus norvegicus	AA108277_at	28
2				AA108308 EST0051 rat lambda ZAPII library (C.P.Hamel) Rattus norvegicus	AA108308_i_at	31
3				AA108308 EST0051 rat lambda ZAPII library (C.P.Hamel) Rattus norvegicus	AA108308_s_at	
4				AA684537 EST104685 Rat PC-12 cells, untreated Rattus sp. cDNA clone	AA684537_at	29
5				AA684929 EST105793 Rat PC-12 cells, untreated Rattus sp. cDNA clone	AA684929_f_at	
6				AA684960 EST105866 Rat PC-12 cells, untreated Rattus sp. cDNA clone	AA684960_f_at	
7				AA684963 EST105871 Rat PC-12 cells, untreated Rattus sp. cDNA clone	AA684963_at	29
8				AA685112 EST106280 Rat PC-12 cells, untreated Rattus sp. cDNA clone	AA685112_at	29
9				AA685152 EST106386 Rat PC-12 cells, untreated Rattus sp. cDNA 5' end	AA685152_r_at	25
10				AA685376 EST107010 Rat PC-12 cells, untreated Rattus sp. cDNA clone	AA685376_f_at	
11				AA685876 EST108473 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. c	AA685876_at	30
12				AA685903 EST108576 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. c	AA685903_at	36
13				AA686031 EST109008 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. c	AA686031_at	30
14				AA686579 EST110738 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. c	AA686579_at	30
15				AA686870 EST111576 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. c	AA686870_f_at	
16				AA686870 EST111576 Rat PC-12 cells, NGF-treated (9 days) Rattus sp. c	AA686870_i_at	
17				AA799336 EST188833 Rattus norvegicus cDNA, 5' end /clone=RHEAA38 /	AA799336_at	29
18		AA819943		AA819943 EST49a-1 Rat Brain, Stratagene (cat.#936501) Rattus norvegicus	AA819943_at	
19		AA848218	Top1	AA848218 EST190978 Normalized rat heart, Bento Soares Rattus sp. cDN	AA848218_at	64
20		AA848268		AA848268 EST191028 Normalized rat heart, Bento Soares Rattus sp. cDN	AA848268_at	30
21		AA848421	Ung_predicted	AA848421 EST191181 Normalized rat kidney, Bento Soares Rattus sp. cD	AA848421_at	30
22		AA848546	MGC72992	AA848546 EST191306 Normalized rat kidney, Bento Soares Rattus sp. cD	AA848546_at	49
23		AA848563	Hspa1a // Hspa1b	AA848563 EST191323 Rattus norvegicus cDNA, 5' end /clone=RLUAC08 /	AA848563_s_at	
24		AA859934	LOC499716	AA859934 UI-R-E0-cg-d-04-0-UI.s1 UI-R-E0 Rattus norvegicus cDNA clon	AA859934_at	49
25		AA875509	Mdm2_predicted	AA875509 UI-R-E0-ct-c-08-0-UI.s1 UI-R-E0 Rattus norvegicus cDNA clone	AA875509_at	31
26		AA933181	Igsf4a_predicted	AA933181 ESTPIM-2MF Rat Brain, Stratagene (cat.#936501) Rattus norve	AA933181_at	36

Filter->

- Contains
- Doesn't Contain
- In List
- Like
- Not Like
- Is Null
- Is Not Null
- =
- !=
- <
- <=
- >
- >=

case sensitive

Insert reference to another field

Sort the table

Click fresh button

Click the column title to sort ascending ▲ or descending ▼

	CONTROL_TYPE	GENEBANKACC	GENENAME	GEN_DESCR_MFR	▲ GEN_ID_MFR	LOCUSID
1		AA108277	Hsph1	AA108277 EST0020 rat lambda ZAPII library (C.F	AA108277_at	288444
2		AA108308	Mdm2_predicted	AA108308 EST0051 rat lambda ZAPII library (C.F	AA108308_i_at	314856
3		AA108308		AA108308 EST0051 rat lambda ZAPII library (C.F	AA108308_s_at	
4		AA684537	Ndufb5_predicted	AA684537 EST104685 Rat PC-12 cells, untreat	AA684537_at	294964
5		AA684929		AA684929 EST105793 Rat PC-12 cells, untreat	AA684929_f_at	
6		AA684960		AA684960 EST105866 Rat PC-12 cells, untreat	AA684960_f_at	
7		AA684963	Fkbp2_predicted	AA684963 EST105871 Rat PC-12 cells, untreat	AA684963_at	293702
8		AA685112	Ndufs8_predicted	AA685112 EST106280 Rat PC-12 cells, untreat	AA685112_at	293652
9		AA685152	Nedd8	AA685152 EST106386 Rat PC-12 cells, untreat	AA685152_r_at	25490
10		AA685376		AA685376 EST107010 Rat PC-12 cells, untreat	AA685376_f_at	
11		AA685876	Cyb5r1	AA685876 EST108473 Rat PC-12 cells, NGF-tre	AA685876_at	304805
12		AA685903	Tra1_predicted	AA685903 EST108576 Rat PC-12 cells, NGF-tre	AA685903_at	362862
13		AA686031	Ndufs1	AA686031 EST109008 Rat PC-12 cells, NGF-tre	AA686031_at	301458
14		AA686579	Sumo1	AA686579 EST110738 Rat PC-12 cells, NGF-tre	AA686579_at	301442
15		AA686870		AA686870 EST111576 Rat PC-12 cells, NGF-tre	AA686870_f_at	
16		AA686870		AA686870 EST111576 Rat PC-12 cells, NGF-tre	AA686870_i_at	
17		AA799336	Ndufab1_predicted	AA799336 EST188833 Rattus norvegicus cDNA,	AA799336_at	293453
18		AA819943		AA819943 EST49a-1 Rat Brain, Stratagene (cat	AA819943_at	
19		AA848218	Top1	AA848218 EST190978 Normalized rat heart, Ber	AA848218_at	64550
20		AA848268	Dnaja4	AA848268 EST191028 Normalized rat heart, Ber	AA848268_at	300721
21		AA848421	Ung	AA848421 EST191181 Normalized rat kidney, Be	AA848421_at	304577
22		AA848546	MGC72992	AA848546 EST191306 Normalized rat kidney, Be	AA848546_at	494345
23		AA848563	Hspa1a /// Hspa1b_mapped	AA848563 EST191323 Rattus norvegicus cDNA,	AA848563_s_at	
24		AA859934	LOC499716	AA859934 UI-R-E0-cg-d-04-0-UI.s1 UI-R-E0 Ratt	AA859934_at	499716
25		AA875509	Mdm2_predicted	AA875509 UI-R-E0-ct-c-08-0-UI.s1 UI-R-E0 Ratt	AA875509_at	314856
26		AA933181	Igsf4a	AA933181 ESTPIM-2MF Rat Brain, Stratagene (c	AA933181_at	363058
27		AA956437	RGD1559939_predicted	AA956437 UI-R-E1-fj-h-02-0-UI.s1 UI-R-E1 Rattu	AA956437_at	500006