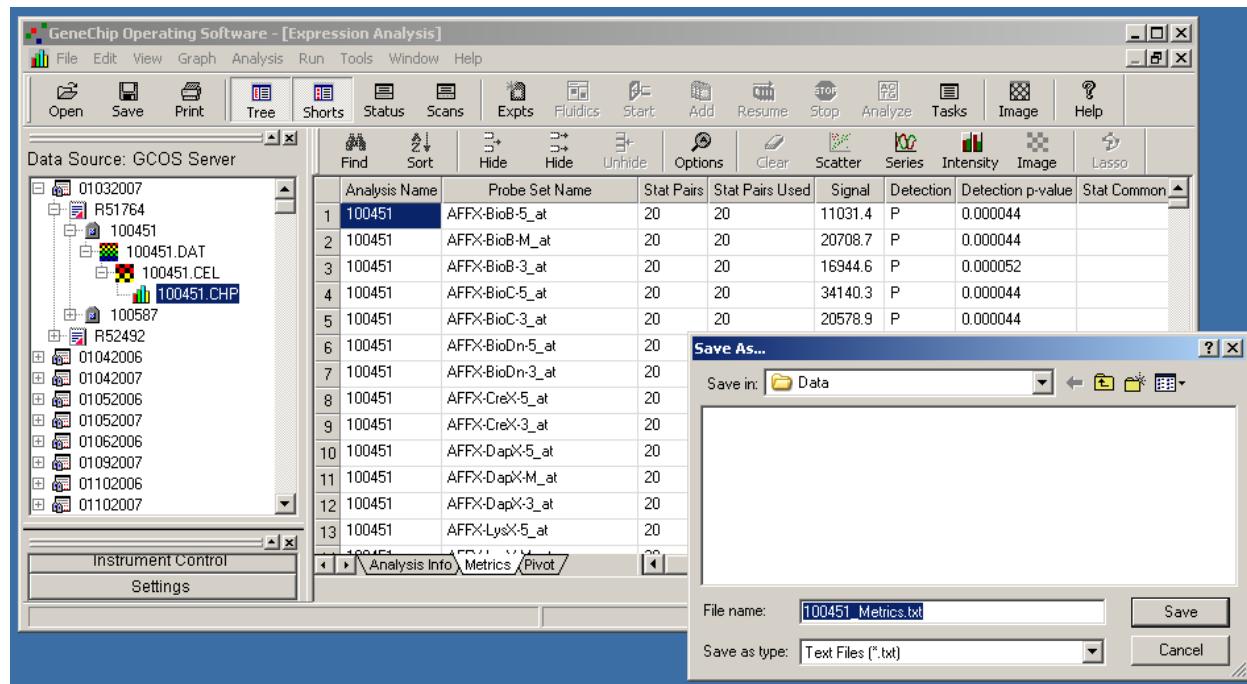


Description of Affymetrix Electronic Data Format used in DrugMatrix

Data File Formats:

- This applies to data from the Rat Genome U34A, RAE230A and Rat 230 2.0 chips.
- Data from each array should be provided as a PLIER Affymetrix TXT Metrics Report file.
- This report can be saved as a text file from the Absolute Expression Analysis (CHP) Report Metrics tab in the GCOS 1.3 software.
- The essential columns in this file are the “Probe Set Name” and “Signal” columns, which should be in the 3rd and 6th positions, respectively. Column headers should be the first row of the file and should have these exact names and spellings.
- To create the Metrics Report, do the following:
 1. In the GCOS 1.3 or 1.4 software, perform an absolute analysis of a CEL file using a baseline comparison to generate a CHP file.
 2. Double click the CHP file icon to open the Expression Analysis Window (EAW).
 3. Click the “Metrics” tab in the EAW.
 4. Use the “Save As...” menu to save a Metrics TXT file.
 5. Close the Expression Analysis Window before opening the next CHP file.
- Follow the above 5 steps for each CHP file in your Toxicogenomics experiment.
- TIP: Saving each Metrics file with a first letter of “X” or “C”, depending on if it represents a treatment (X) or control (C), will make it much easier to load the data into DrugMatrix.



- An example of the resulting file format is shown on the next page.

Example of an AffyMetrix CHP Metrics File:

Expression Analysis: Metrics Tab

	Analysis Name	Probe Set Name	Stat Pairs	Stat Pairs Used	Signal	Detection	Detection p-value	...more cols...
1	compound1	AFFX-MurIL2_at	20	20	19	A	0.749204	
2	compound1	AFFX-MurIL10_at	20	20	7.7	A	0.749204	
3	compound1	AFFX-MurIL4_at	20	20	2.4	A	0.876428	
4	compound1	AFFX-MurFAS_at	20	20	10.4	A	0.659339	
5	compound1	AFFX-BioB-5_at	20	20	365.4	P	0.015183	
6	compound1	AFFX-BioB-M_at	20	20	717.9	P	0.000754	
7	compound1	AFFX-BioB-3_at	20	20	250.4	P	0.000972	
8	compound1	AFFX-BioC-5_at	20	20	985.2	P	0.000095	
9	compound1	AFFX-BioC-3_at	20	20	662.3	P	0.000127	
10	compound1	AFFX-BioDn-5_at	20	20	607.4	P	0.00141	
11	compound1	AFFX-BioDn-3_at	20	20	3817.9	P	0.00011	
12	compound1	AFFX-CreX-5_at	20	20	6334	P	0.000044	
13	compound1	AFFX-CreX-3_at	20	20	10233.6	P	0.000052	
14	compound1	AFFX-BioB-5_st	20	20	41.3	A	0.287743	
15	compound1	AFFX-BioB-M_st	20	20	90.3	A	0.470241	
16	compound1	AFFX-BioB-3_st	20	20	22.1	A	0.724854	
17	compound1	AFFX-BioC-5_st	20	20	25.8	A	0.824672	
18	compound1	AFFX-BioC-3_st	20	20	6.2	A	0.824672	
19	compound1	AFFX-BioDn-5_st	20	20	217.3	A	0.089478	
20	compound1	AFFX-BioDn-3_st	20	20	208.5	A	0.062929	
21	compound1	AFFX-CreX-5_st	20	20	101.4	A	0.102165	
22	compound1	AFFX-CreX-3_st	20	20	149.8	A	0.313723	
23	compound1	AFFX-DapX-5_at	20	20	25.7	A	0.340661	
24	compound1	AFFX-DapX-M_at	20	20	59.1	M	0.042962	
25	compound1	AFFX-DapX-3_at	20	20	8.5	A	0.814869	
26	compound1	AFFX-LysX-5_at	20	20	4.5	A	0.659339	
27	compound1	AFFX-LysX-M_at	20	20	22.5	A	0.51489	
28	compound1	AFFX-LysX-3_at	20	20	11	A	0.574038	
29	compound1	AFFX-PheX-5_at	20	20	6	A	0.868639	
30	compound1	AFFX-PheX-M_at	20	20	2.3	A	0.966323	
31	compound1	AFFX-PheX-3_at	20	20	21.6	A	0.559354	
32	compound1	AFFX-ThrX-5_at	20	20	12.5	A	0.574038	
33	compound1	AFFX-ThrX-M_at	20	20	29.2	A	0.262827	
34	compound1	AFFX-ThrX-3_at	20	20	14	A	0.724854	
35	compound1	AFFX-TrpnX-5_at	20	20	7.5	A	0.574038	
36	compound1	AFFX-TrpnX-M_at	20	20	4.5	A	0.986189	
37	compound1	AFFX-TrpnX-3_at	20	20	1.7	A	0.971543	
38	compound1	AFFX_Rat_GAPDH_5_at	20	20	6187.2	P	0.000052	
39	compound1	AFFX_Rat_GAPDH_M_at	20	20	6488.6	P	0.000044	

...more data to end of file...