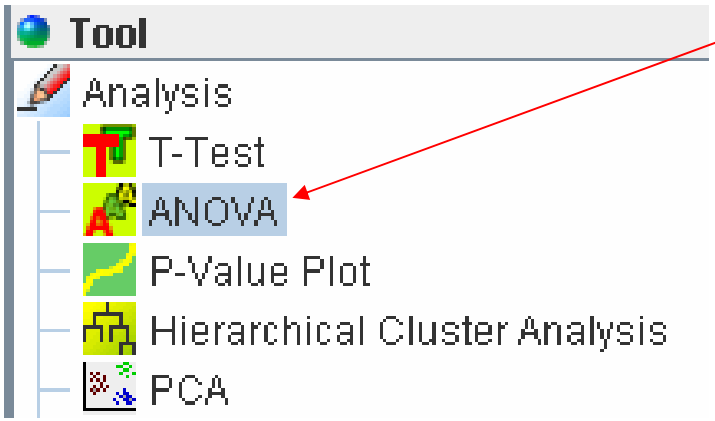
Array Track

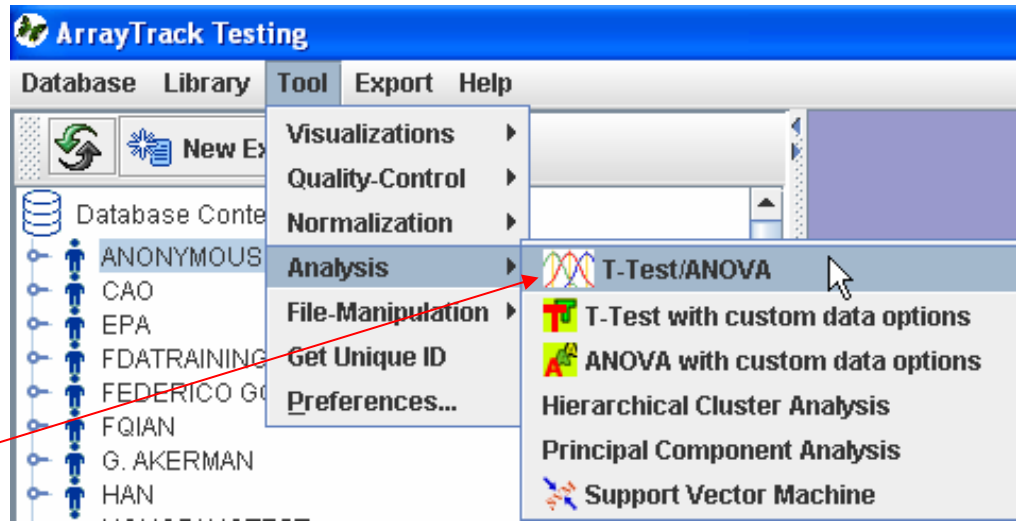
Tutorial 2: Comparing multiple groups

Comparing Multiple Groups

User can use ANOVA to compare multiple groups. Running ANOVA is similar to running T-test (see tutorial 1 for detail about T-test).
The following are two ways to access ANOVA. But we recommend the third way to do ANOVA, see next slide.



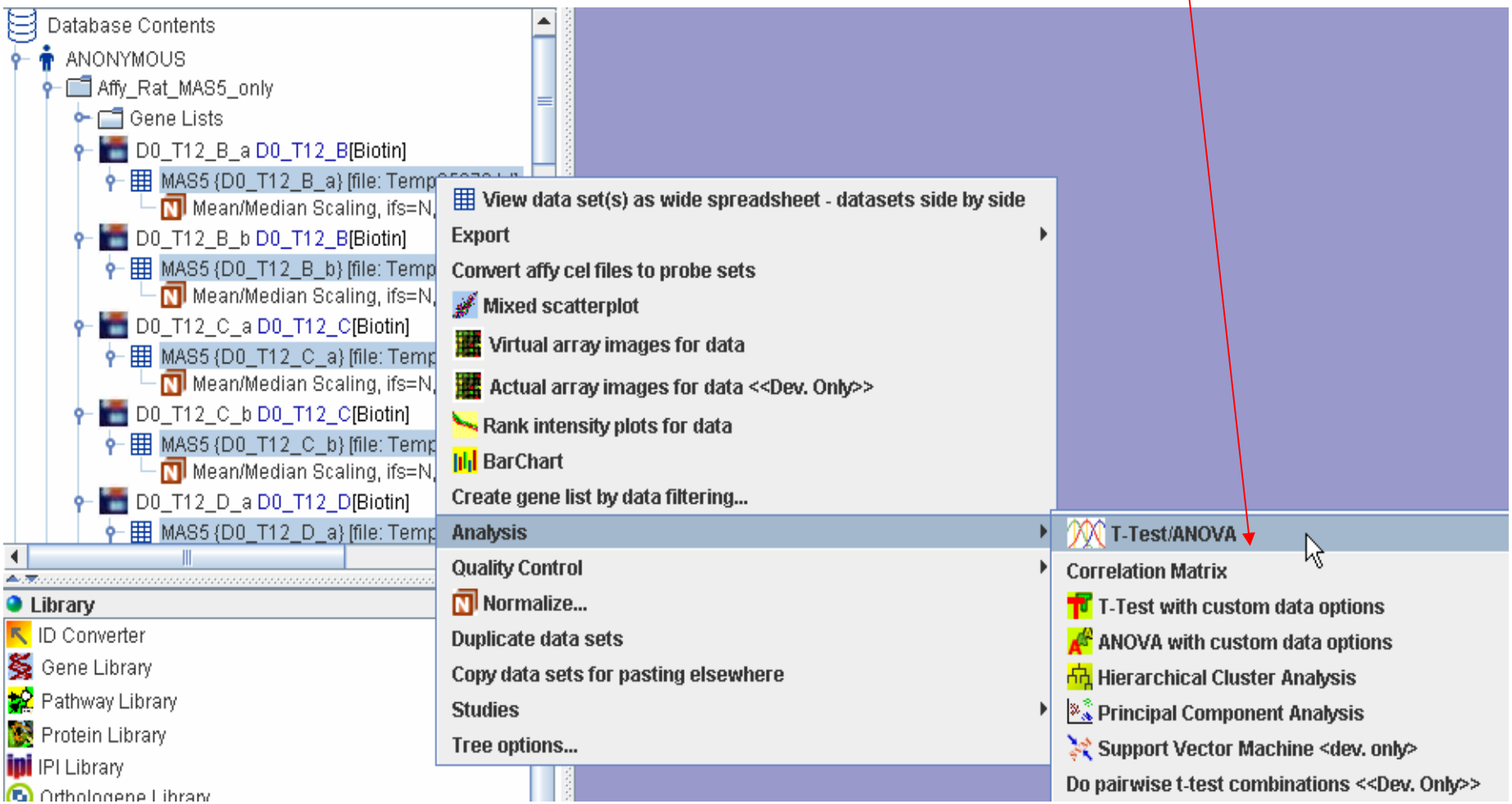
Activate ANOVA from Tool panel



Activate ANOVA from pull-down menu

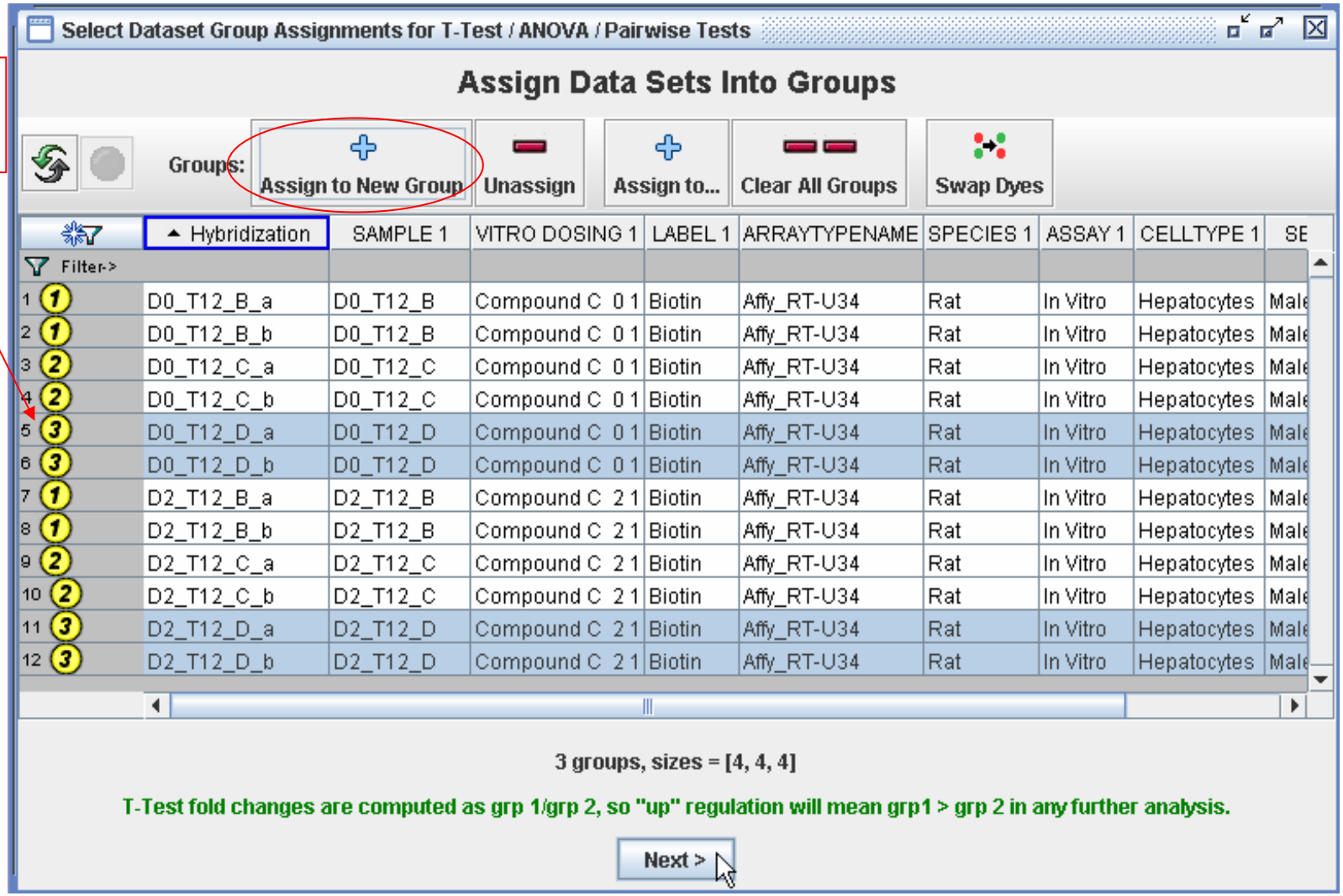
Comparing Multiple Groups

Right-click the selected datasets, choose “Analysis” -> T-Test/ANOVA.

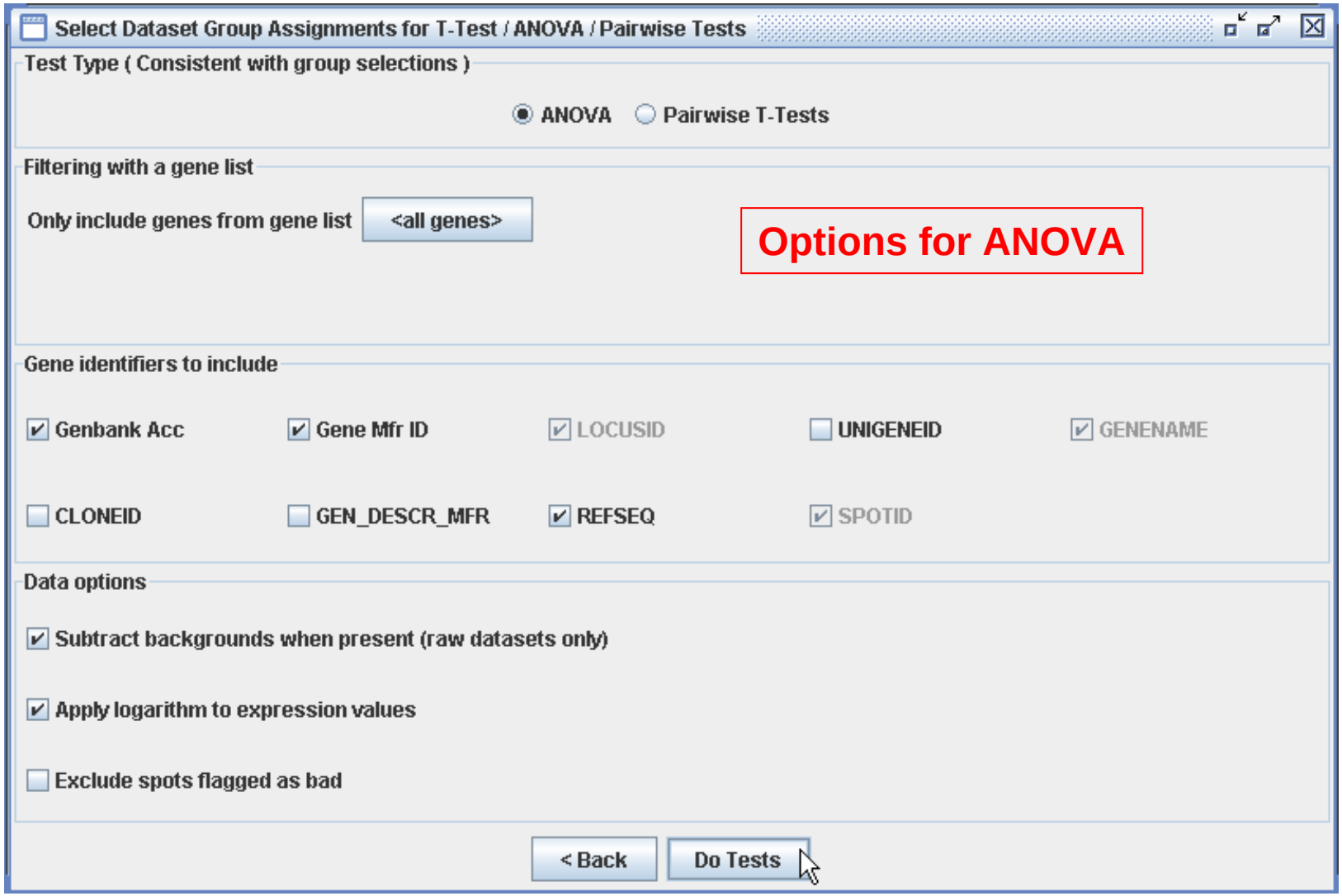


Comparing multiple groups - continued

Assign data into 3 groups

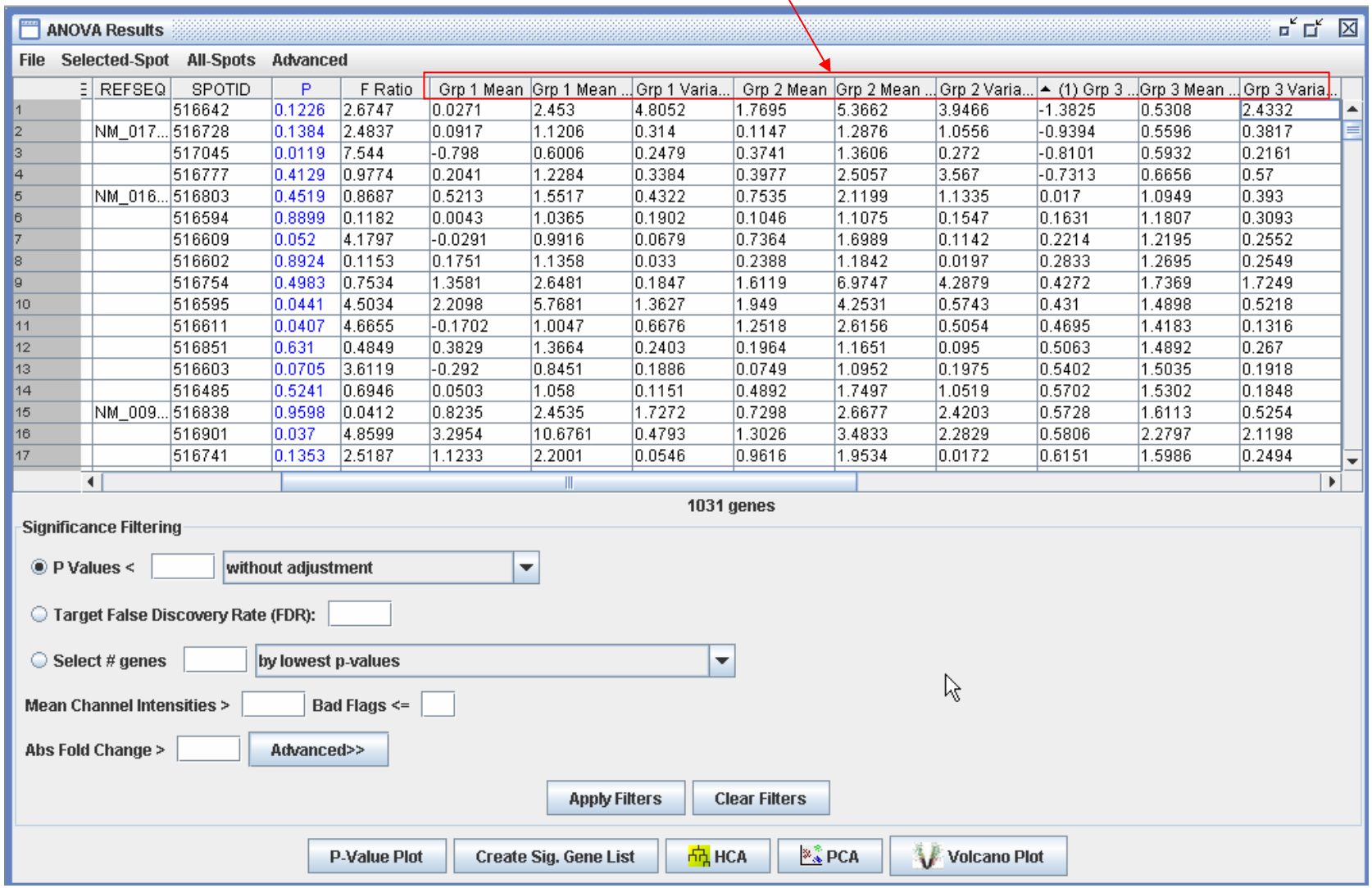


Comparing Multiple Groups - continued



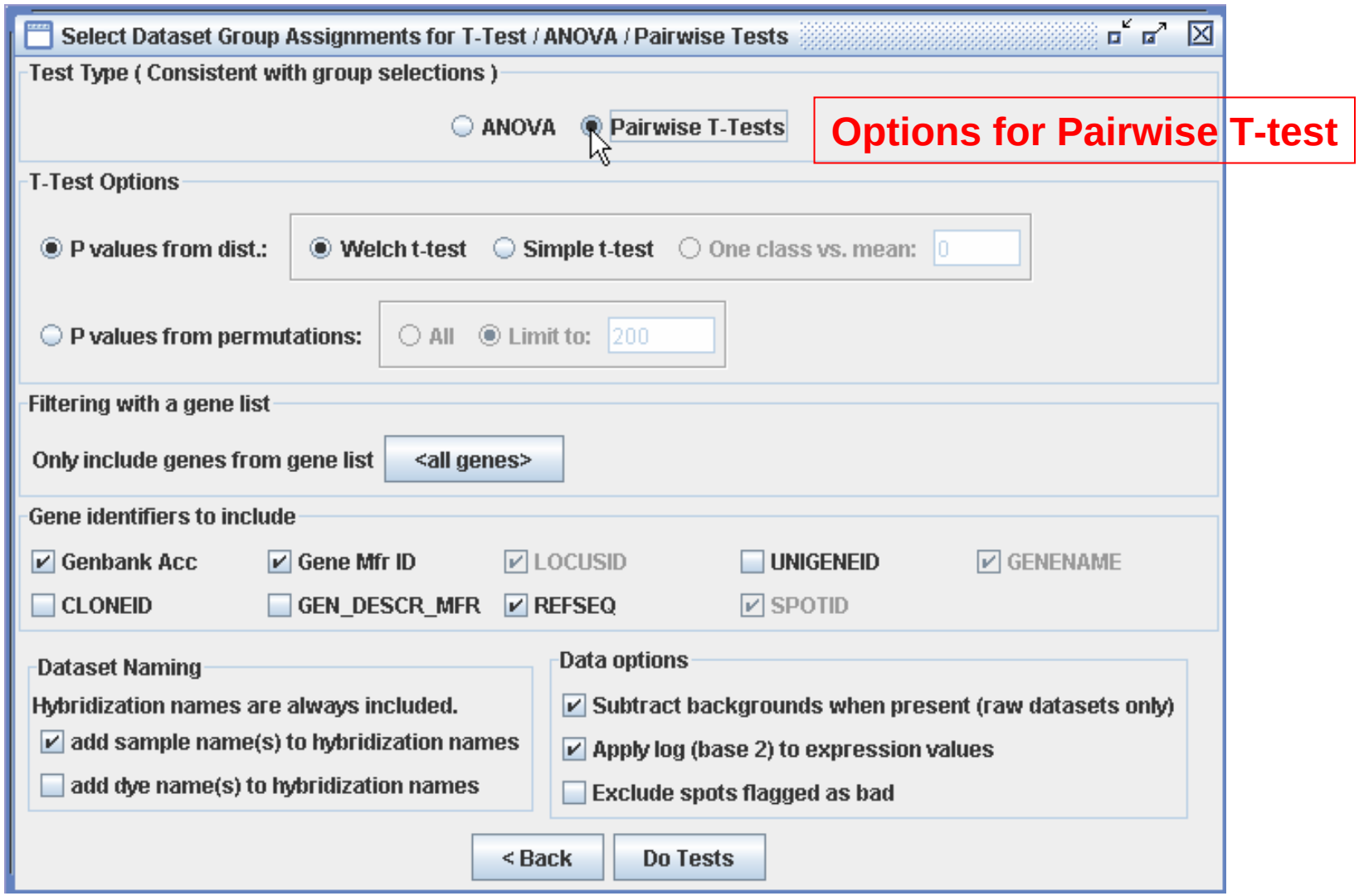
Comparing Multiple Groups - continued

ANOVA result of 3 groups

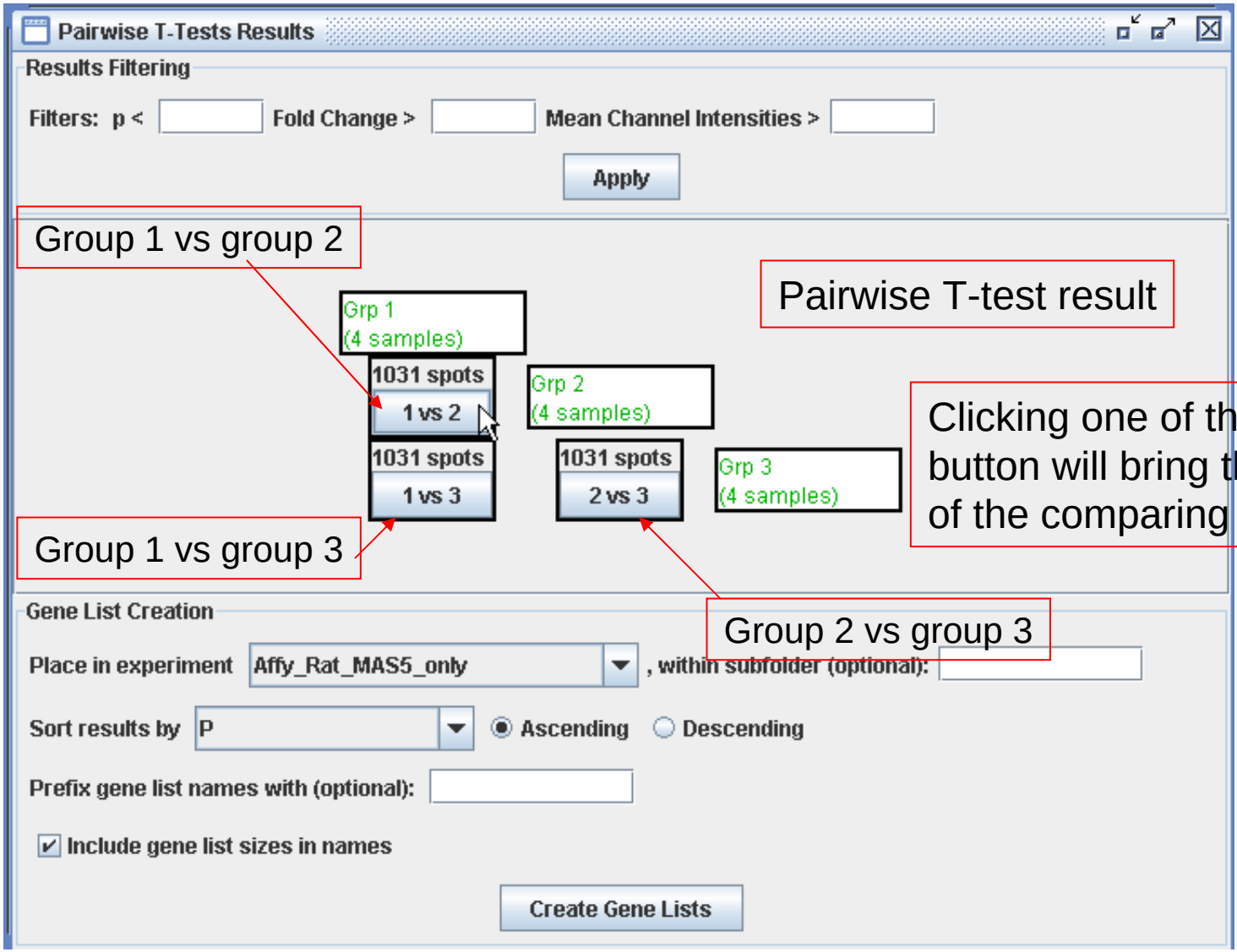
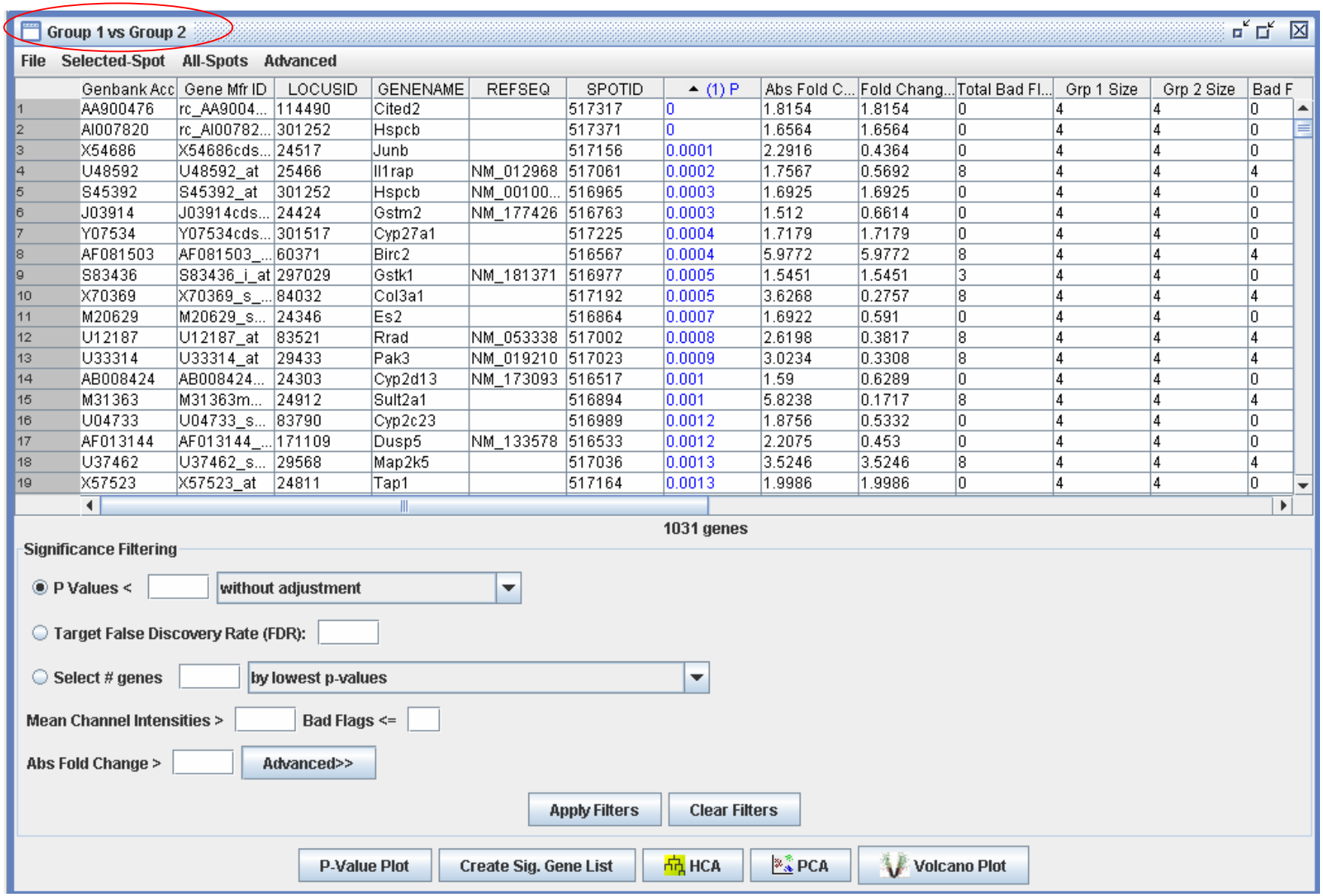


	REFSEQ	SPOTID	P	F Ratio	Grp 1 Mean	Grp 1 Mean ...	Grp 1 Varia...	Grp 2 Mean	Grp 2 Mean ...	Grp 2 Varia...	(1) Grp 3 ...	Grp 3 Mean ...	Grp 3 Varia...
1		516642	0.1226	2.6747	0.0271	2.453	4.8052	1.7695	5.3662	3.9466	-1.3825	0.5308	2.4332
2	NM_017...	516728	0.1384	2.4837	0.0917	1.1206	0.314	0.1147	1.2876	1.0556	-0.9394	0.5596	0.3817
3		517045	0.0119	7.544	-0.798	0.6006	0.2479	0.3741	1.3606	0.272	-0.8101	0.5932	0.2161
4		516777	0.4129	0.9774	0.2041	1.2284	0.3384	0.3977	2.5057	3.567	-0.7313	0.6656	0.57
5	NM_016...	516803	0.4519	0.8687	0.5213	1.5517	0.4322	0.7535	2.1199	1.1335	0.017	1.0949	0.393
6		516594	0.8899	0.1182	0.0043	1.0365	0.1902	0.1046	1.1075	0.1547	0.1631	1.1807	0.3093
7		516609	0.052	4.1797	-0.0291	0.9916	0.0679	0.7364	1.6989	0.1142	0.2214	1.2195	0.2552
8		516602	0.8924	0.1153	0.1751	1.1358	0.033	0.2388	1.1842	0.0197	0.2833	1.2695	0.2549
9		516754	0.4983	0.7534	1.3581	2.6481	0.1847	1.6119	6.9747	4.2879	0.4272	1.7369	1.7249
10		516595	0.0441	4.5034	2.2098	5.7681	1.3627	1.949	4.2531	0.5743	0.431	1.4898	0.5218
11		516611	0.0407	4.6655	-0.1702	1.0047	0.6676	1.2518	2.6156	0.5054	0.4695	1.4183	0.1316
12		516851	0.631	0.4849	0.3829	1.3664	0.2403	0.1964	1.1651	0.095	0.5063	1.4892	0.267
13		516603	0.0705	3.6119	-0.292	0.8451	0.1886	0.0749	1.0952	0.1975	0.5402	1.5035	0.1918
14		516485	0.5241	0.6946	0.0503	1.058	0.1151	0.4892	1.7497	1.0519	0.5702	1.5302	0.1848
15	NM_009...	516838	0.9598	0.0412	0.8235	2.4535	1.7272	0.7298	2.6677	2.4203	0.5728	1.6113	0.5254
16		516901	0.037	4.8599	3.2954	10.6761	0.4793	1.3026	3.4833	2.2829	0.5806	2.2797	2.1198
17		516741	0.1353	2.5187	1.1233	2.2001	0.0546	0.9616	1.9534	0.0172	0.6151	1.5986	0.2494

Comparing Multiple Groups - continued



Comparing Multiple Groups - continued



Comparing Multiple Groups - continued