



MeV软件进行聚类分析 操作流程

欧易生物

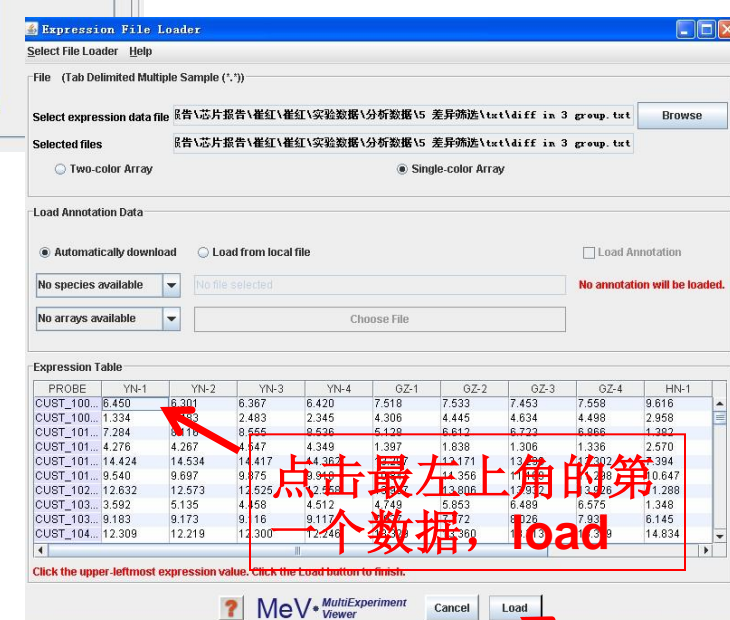
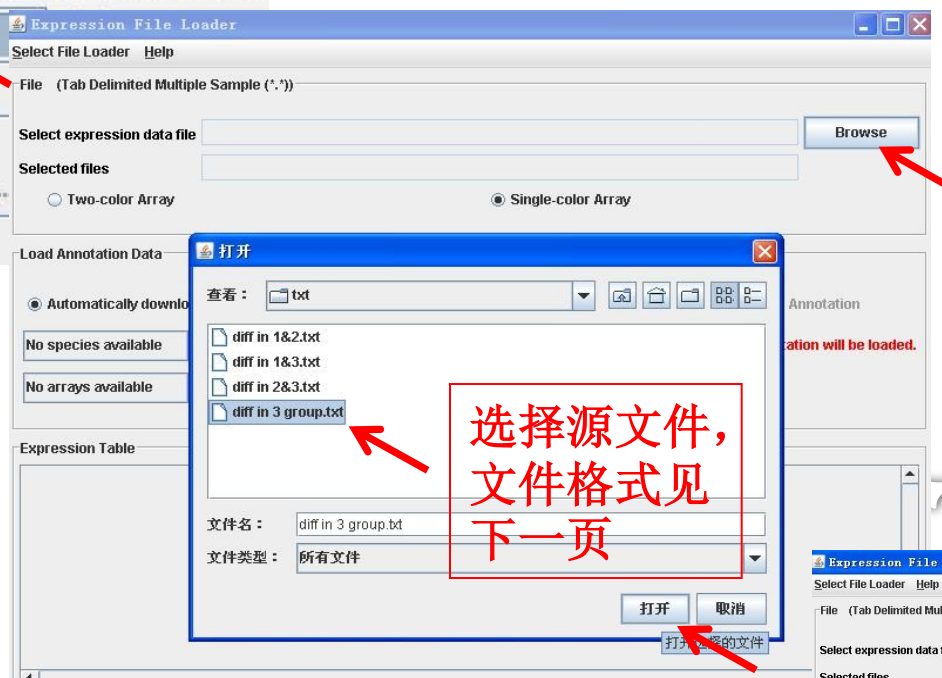
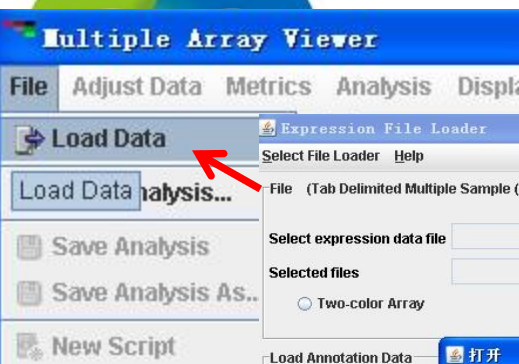


- MEV软件无需安装，无需解压，但是需要在使用该软件之前安装**JAVA**，点击文件夹中的**JAVA**软件  Java Runtime Environment-6.0.330.exe 安装即可。

上海欧易

1 打开MeV, 导入数据。

易



PROBE	YN-1	YN-2	YN-3	YN-4	OZ-1	OZ-2	OZ-3	OZ-4	HN-1
CUST_100...	8.450	6.201	6.367	6.420	7.518	7.533	7.453	7.558	9.616
CUST_100...	1.334	2.493	2.483	2.345	4.306	4.445	4.634	4.498	2.958
CUST_101...	7.284	8.716	8.555	8.526	5.128	6.612	6.722	6.966	1.392
CUST_101...	4.276	4.267	4.547	4.349	1.397	1.838	1.306	1.336	2.570
CUST_101...	14.424	14.534	14.417	14.363	12.171	13.297	13.297	12.203	7.394
CUST_101...	9.540	9.697	9.875	9.919	11.356	11.856	11.856	11.356	10.647
CUST_102...	12.632	12.573	12.525	12.558	13.872	13.806	13.806	13.806	1.288
CUST_103...	3.592	5.135	4.558	4.512	4.749	5.853	6.489	6.575	1.348
CUST_103...	9.183	9.173	9.117	9.117	11.72	8.026	8.026	7.98	6.145
CUST_104...	12.309	12.219	12.300	12.246	12.300	12.300	12.300	12.300	14.834

导入文件格式.txt

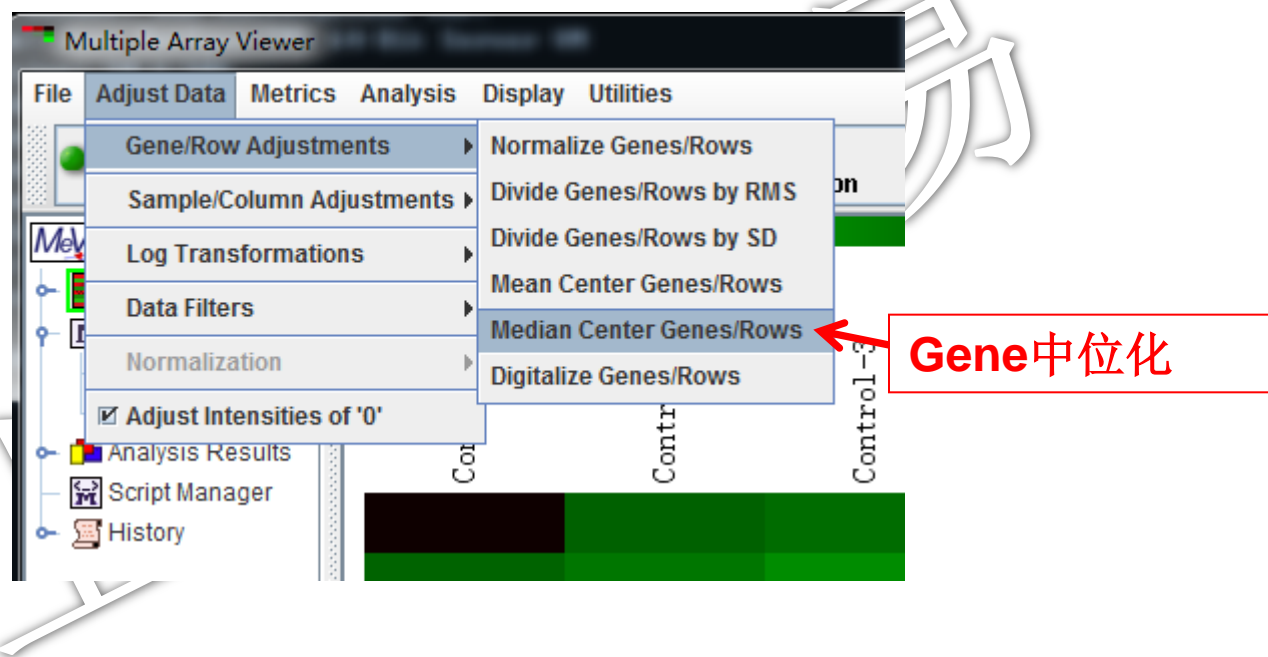
基因或miRNA名称,
可以是probe ID, gene
symbol, miRNA等

相应样本的标准化
信号值

A	B	C	D	E	F	G	H	I	J	K
systematic	Control-1	Control-2	Control-3	Control-4	Control-5	Treatment	Treatment	Treatment	Treatment	Treatment
hsa-miR-	4.117472	2.425547	2.257792	2.721742	2.507492	5.290645	3.963713	4.381024	3.795941	6.483124
hsa-miR-	2.392147	2.093825	1.76745	2.318852	2.215987	4.488134	3.37224	2.601644	3.026403	3.770224
hsa-miR-	0.910198	1.103413	0.961108	0.312955	0.513069	1.673431	1.927288	1.155438	1.118214	3.129052
hsa-miR-	-5.67499	-0.84145	-6.22027	-6.38511	-1.04084	2.513427	1.046393	0.565252	2.219901	2.718564
hsa-miR-	1.711456	2.342337	2.020065	0.669011	1.49876	4.628832	2.713693	4.554214	1.211871	3.902363
hsa-miR-	10.54308	10.47967	10.6221	9.991513	10.17862	12.3105	11.5511	12.04947	11.66502	12.63161
hsa-miR-	1.884155	3.448479	2.421772	1.723666	2.070822	4.666307	4.214134	6.09797	3.218871	4.289248
hsa-miR-	-5.67499	-1.66584	-6.22027	-2.06629	-2.19858	-1.35716	0.121457	0.158635	-1.13201	-1.47737
hsa-miR-	-0.834	-0.07796	-0.17079	-0.32886	-1.05529	0.772286	1.249588	1.166869	-0.56126	0.160276
hsa-miR-	-5.67499	-6.31927	-6.22027	-6.38511	-5.99462	-1.25885	-0.31737	-0.90772	-1.07143	-0.87847
hsa-miR-	-5.67499	-6.31927	-0.15489	-6.38511	-0.99414	-0.45932	-0.0796	1.881273	-1.3304	0.409467
hsa-miR-	3.472245	2.72126	3.170607	3.223963	3.225354	4.588028	3.088008	5.023236	4.168779	6.334113
hsa-miR-	-5.67499	-6.31927	-1.05804	-1.50603	-5.99462	0.769371	-0.19699	0.127119	-1.0875	-0.63399
hsa-miR-	-5.67499	-1.14248	-6.22027	-6.38511	-5.99462	1.936681	0.538888	0.359389	0.004417	0.062908
hsa-miR-	-5.67499	-0.88969	-1.1131	-6.38511	-5.99462	0.800286	1.214684	-0.07767	-1.6754	1.259772
hsa-miR-	0.488954	1.203315	0.091881	0.428859	0.843842	3.048372	2.580061	4.394995	0.310273	3.270484
hsa-miR-	1.795681	1.449729	1.606758	1.492504	1.749229	3.52921	3.385056	2.425678	1.471901	2.964652
hsa-miR-	1.876844	1.276551	1.274255	1.323378	1.066724	4.5613	3.337945	1.182763	3.031988	3.088815
hsv1-miR-	-5.67499	-6.31927	-6.22027	-1.4512	-5.99462	-0.82637	0.063505	1.245648	-0.29145	-0.65783
hsa-let-	10.7838	10.10293	10.30817	10.73809	10.68266	9.630089	8.378316	7.681264	9.886524	10.39732
hsa-let-	9.819313	9.510312	9.415765	10.09319	9.918474	8.559124	7.143523	8.140289	8.901421	9.530088
hsa-let-	8.800498	8.444374	8.495061	8.922276	8.715842	7.154	5.709683	6.616036	7.707176	7.788385
hsa-let-	6.920078	6.124488	6.245704	7.097914	6.937068	5.180437	4.221624	4.135463	6.516961	5.744845
hsa-miR-	7.348121	5.966193	6.464092	6.120363	6.996758	3.216342	1.678957	-6.18626	4.55841	2.656587
hsa-miR-	7.038822	6.478651	6.640234	7.128747	7.165916	5.047347	2.804562	3.45001	5.40336	4.579755



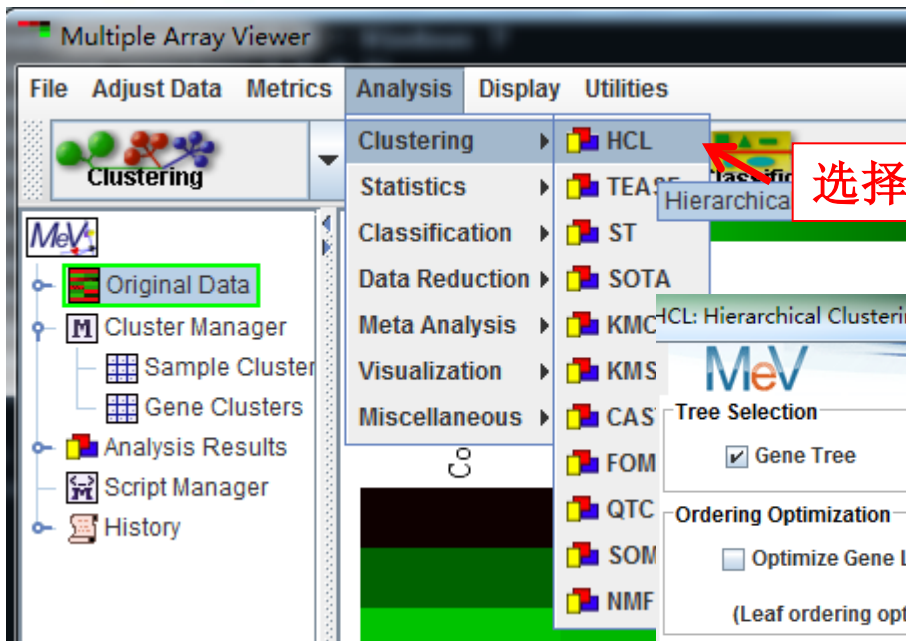
2 数据中位化(一般需对gene进行中位化)



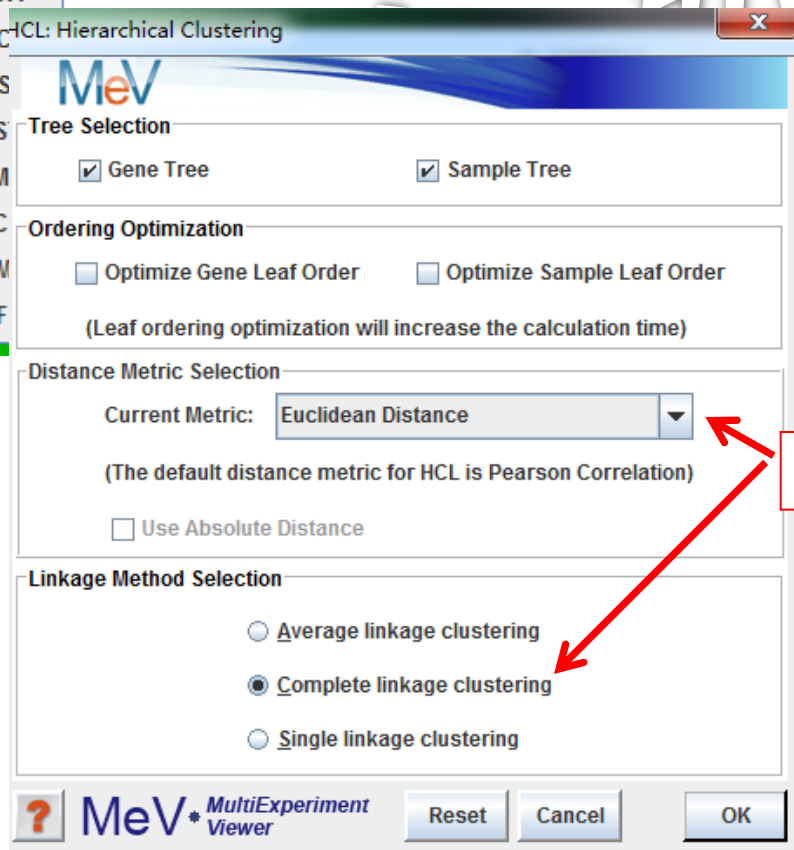
注意：该步骤点击完成软件中不会有任何变化，但实际上内部已经运算完成，切忌重复点击。



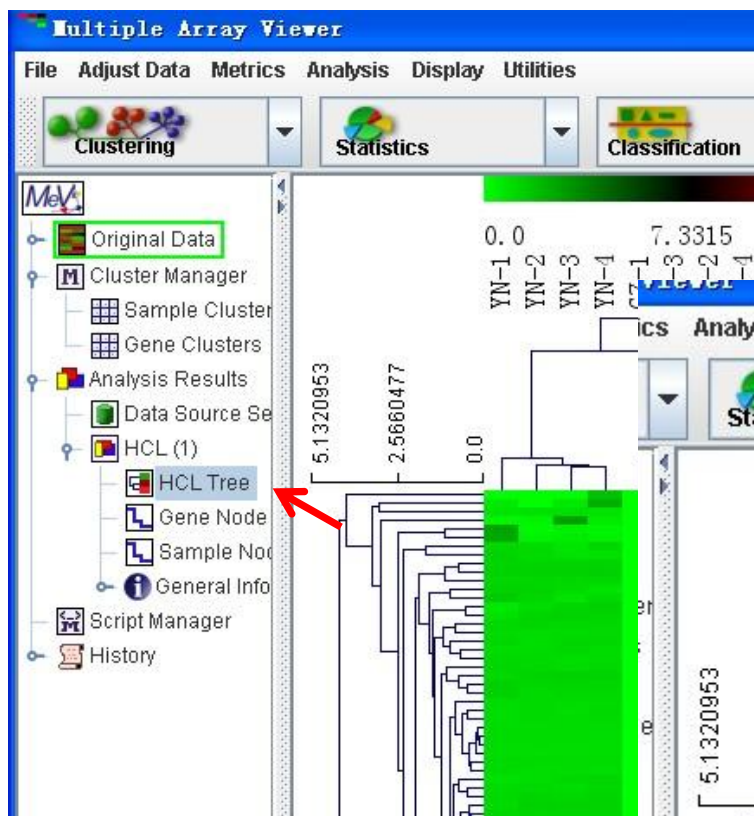
3 进行聚类分析



选择层次聚类



选择欧式全连接



4 数据参数设置 (1)

点击此处进行
参数设置

Color Range Selection

Lower Limit (min. data value = -9.27):

Midpoint Value (median data value = 0):

Upper Limit (max. data value = 5.55):

Color Saturation Statistics

	Nu	
Elements Off Color Scale	360	49.3
Elements Below Lower Limit	360	49.3
Elements Above Upper Limit	0	0.0

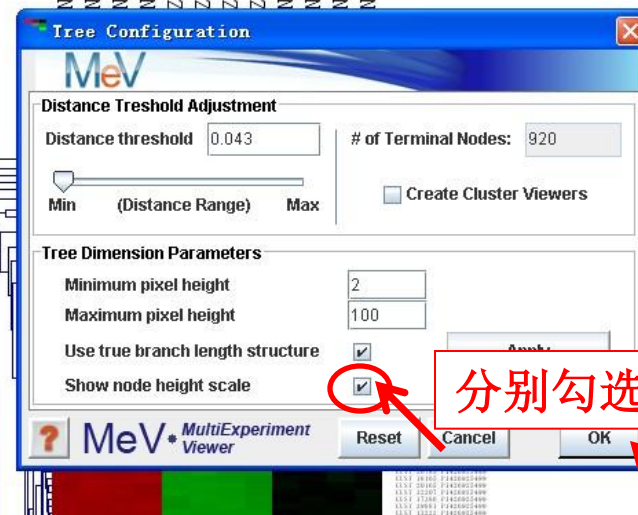
Gradient and Limits Preview

MeV MultiExperiment Viewer

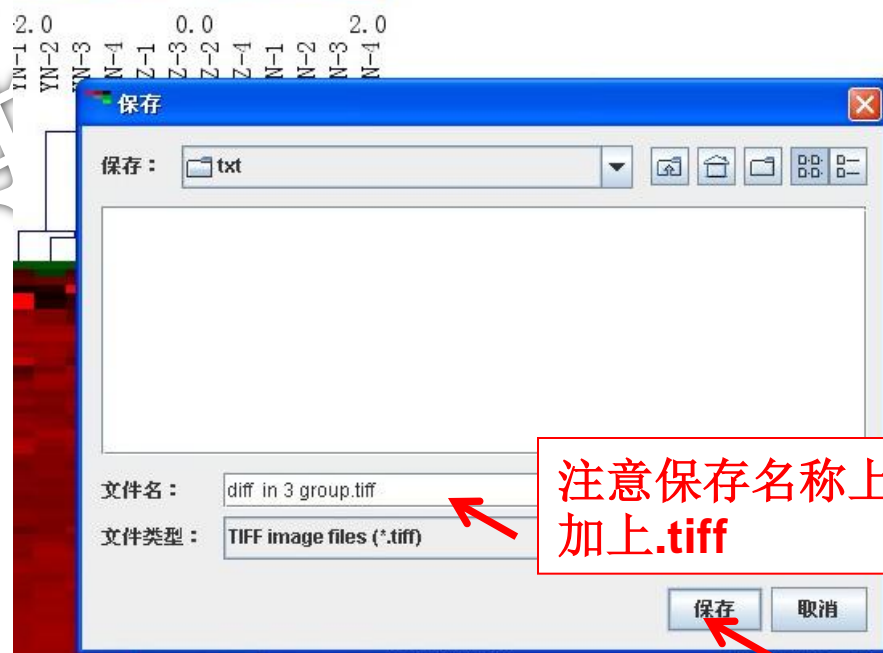
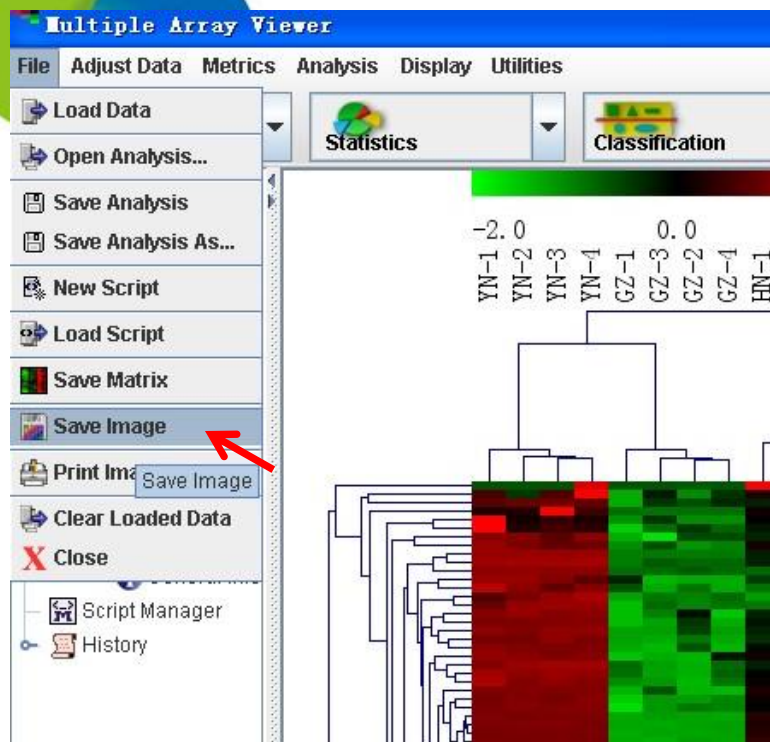
参数设置选
项分别设为
-n,0,n

数据参数设置 (2)

在界面上右击后，对该两处设置，去除黄色圈中标志。



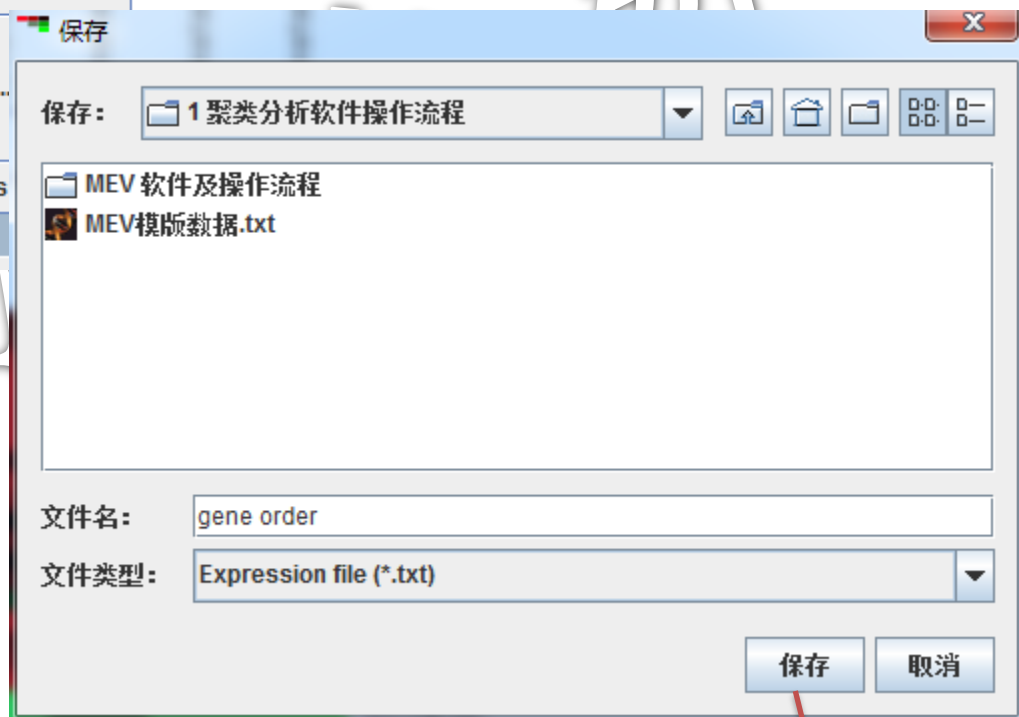
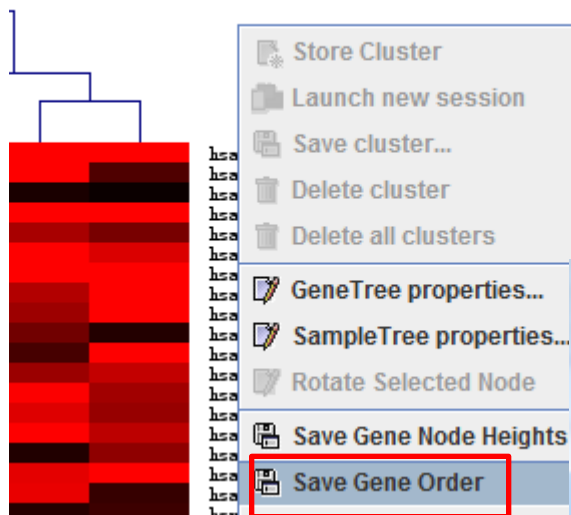
5 保存图像



点击保存



6. 保存gene order



点击保存



聚类后的位置情况

原来的位置

A	B	C	D	E	F	G	H	I	J	K	L
Original	systematic	Control-1	Control-2	Control-3	Control-4	Control-5	Treatment	Treatment	Treatment	Treatment	Treatment
4	hsa-miR-1	-5.53689	-0.70335	-6.08217	-6.24701	-0.90274	2.651527	1.184493	0.703351	2.358001	2.856664
14	hsa-miR-4	-5.10596	-0.57345	-5.65124	-5.81608	-5.42559	2.505711	1.107918	0.928418	0.573447	0.631938
8	hsa-miR-2	-4.10338	-0.09423	-4.64866	-0.49468	-0.62698	0.214441	1.693061	1.730239	0.439598	0.094231
10	hsa-miR-3	-2.20807	-2.85236	-2.75335	-2.91819	-2.5277	2.20807	3.149549	2.559201	2.39549	2.588441
7	hsa-miR-2	-1.44952	0.114804	-0.9119	-1.61001	-1.26285	1.332632	0.88046	2.764295	-0.1148	0.955573
5	hsa-miR-2	-0.46974	0.161136	-0.16114	-1.51219	-0.68244	2.447632	0.532492	2.373013	-0.96933	1.721163
16	hsa-miR-6	-0.53463	0.179737	-0.9317	-0.59472	-0.17974	2.024793	1.556483	3.371416	-0.71331	2.246905
1	hsa-miR-1	0.237645	-1.45428	-1.62204	-1.15808	-1.37234	1.410818	0.083886	0.501197	-0.08389	2.603297
12	hsa-miR-4	0.123446	-0.62754	-0.17819	-0.12484	-0.12345	1.239229	-0.26079	1.674437	0.81998	2.985314
9	hsa-miR-3	-0.70962	0.046418	-0.04642	-0.20449	-0.93091	0.896661	1.373962	1.291243	-0.43688	0.28465
3	hsa-miR-1	-0.20062	-0.0074	-0.14971	-0.79786	-0.59774	0.562618	0.816474	0.044624	0.0074	2.018238
6	hsa-miR-2	-0.54352	-0.60693	-0.4645	-1.09509	-0.90798	1.223902	0.464497	0.962867	0.578421	1.545009
2	hsa-miR-1	-0.10475	-0.40307	-0.72945	-0.17804	-0.28091	1.991239	0.875344	0.104748	0.529508	1.273328
17	hsa-miR-6	0.023226	-0.32273	-0.1657	-0.27995	-0.02323	1.756755	1.612601	0.653223	-0.30055	1.192197
18	hsa-miR-7	0.276733	-0.32356	-0.32586	-0.27673	-0.53339	2.961189	1.737834	-0.41735	1.431877	1.488704
11	hsa-miR-3	-4.94825	-5.59254	0.571843	-5.65838	-0.26741	0.267407	0.64713	2.608004	-0.60367	1.136198
15	hsa-miR-5	-4.67359	0.111706	-0.11171	-5.38372	-4.99323	1.80168	2.216078	0.923722	-0.67401	2.261166
13	hsa-miR-4	-4.60221	-5.2465	0.01473	-0.43325	-4.92185	1.842143	0.875779	1.199891	-0.01473	0.438781
19	hsa-miR-1	-4.5362	-5.18049	-5.08148	-0.31241	-4.85584	0.312413	1.20229	2.384433	0.84733	0.48095
67	hsa-miR-3	3.405608	1.524788	2.070701	3.086821	2.29195	-2.44538	-10.774	-8.91785	-1.52479	-3.15367
35	hsa-miR-1	1.88486	0.945426	1.185351	0.851388	1.445795	-2.45503	-4.09757	-7.82597	-0.85139	-7.66239