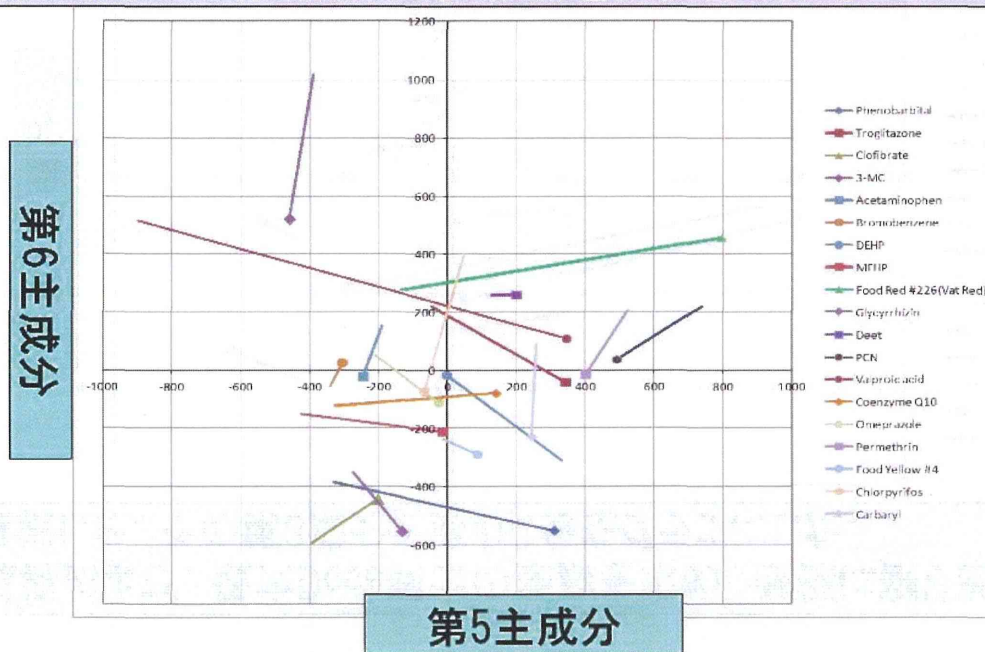


4.4.3.主成分分析結果

溶媒群および、最大Dose同士の距離を求め、座標に割り当てた後、主成分分析を実施した。その第1成分と第2成分をグラフにした。



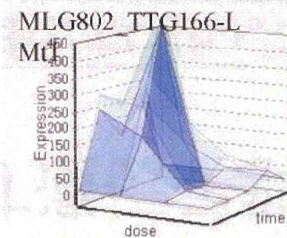
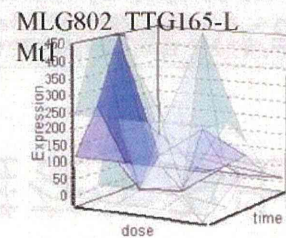
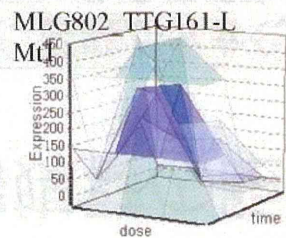
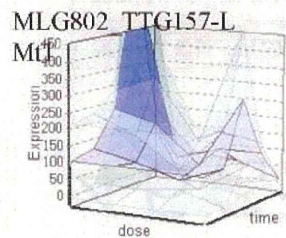
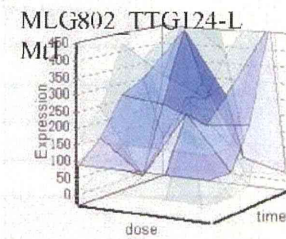
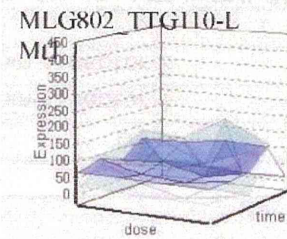
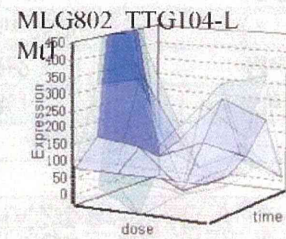
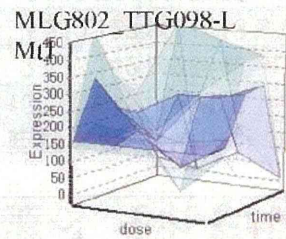
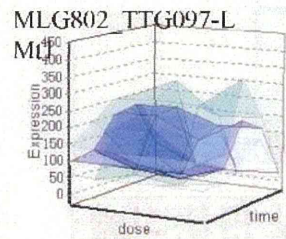
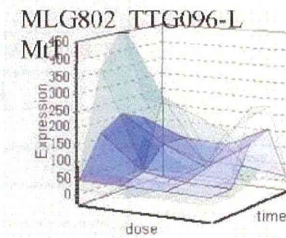
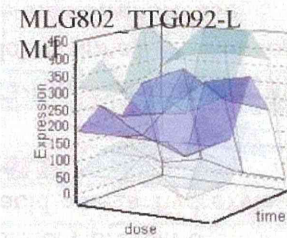
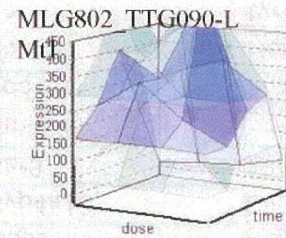
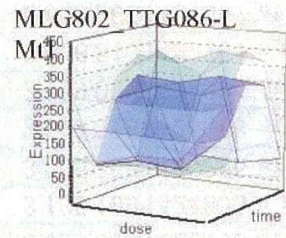
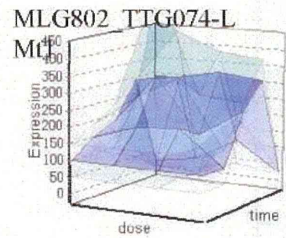
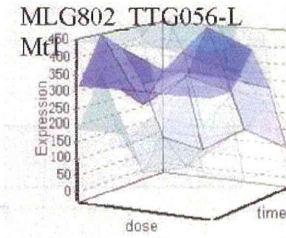
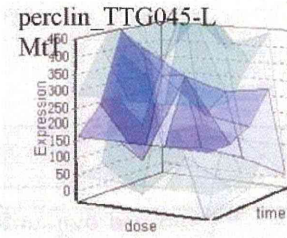
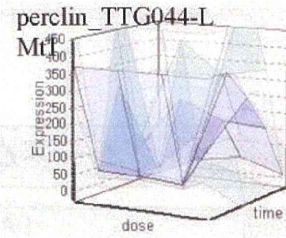
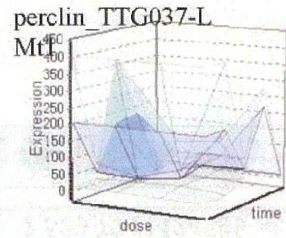
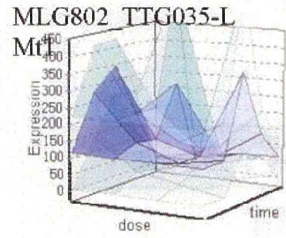
第5主成分は、Valproic Acid、Food Red #226、Phenobarbitalなどの反応を表しているように思われる。
 第6主成分は、3-MC、Chlorpyrifos、Carbarylなどの反応を表しているように思われる。

4.5.各溶媒群の距離を生み出す遺伝子群

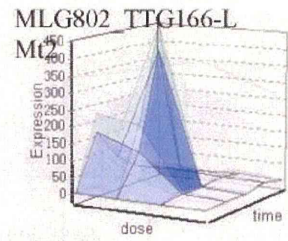
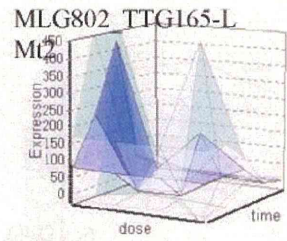
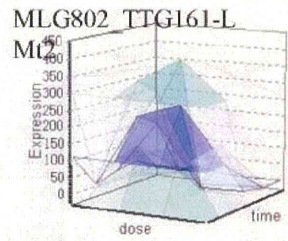
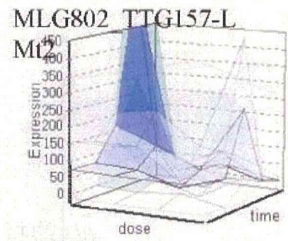
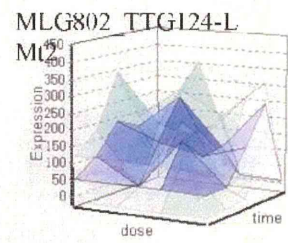
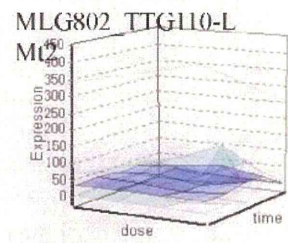
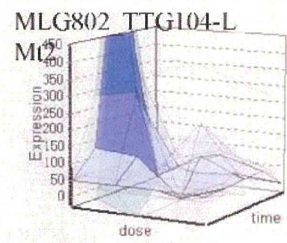
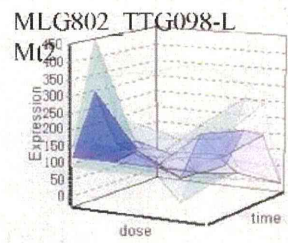
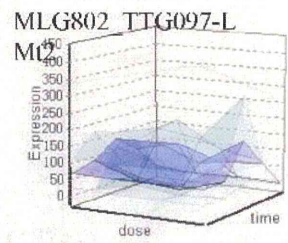
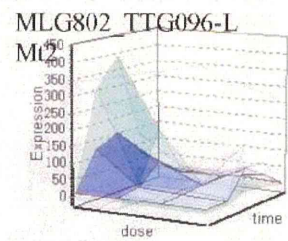
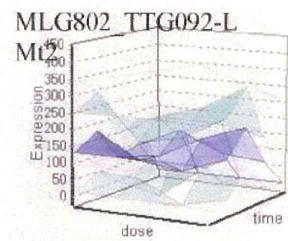
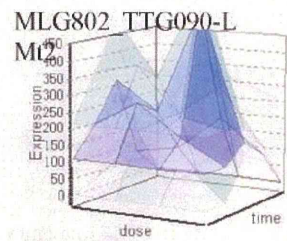
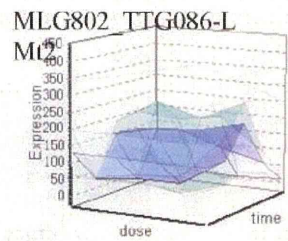
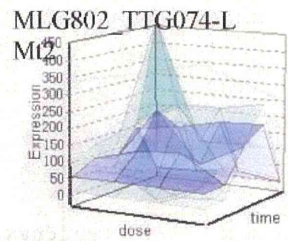
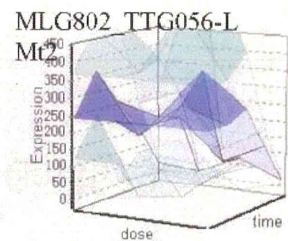
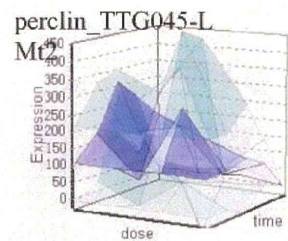
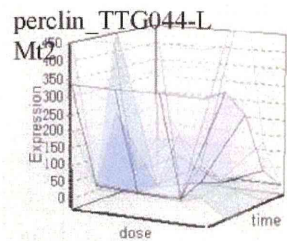
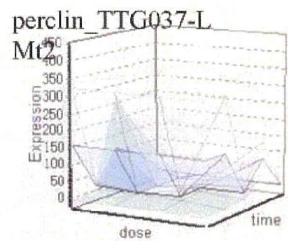
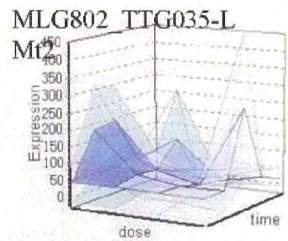
溶媒群同士で、距離が大きく、化合物影響が大きく表れていない。このような状況を生み出している遺伝子を見つけ出すために、全溶媒群間の距離が大きな順に遺伝子を並べ、それぞれの状況を確認する

順位	距離合計	ProbesetID	Gene Symbol	Description
1	13,123,615	1422557_s_at	Mt1	Melatonin receptor 1
2	7,977,142	1428942_at	Mt2	Melatonin receptor 2
3	4,230,127	1431213_a_at	Gm3579	
4	4,048,761	1415965_at	Scd1	ステアロイル-CoA不飽和化酵素1
5	3,499,390	1426166_at	Mup5	Major Urinary protein 5
6	3,135,199	1424853_s_at	Cyp4a10	Lauric acid omega-hydroxylase
7	3,055,755	1460256_at	Car3	脱炭酸酵素
8	2,997,376	1426088_at	Gm4076	
9	2,759,092	1415964_at	Scd1	ステアロイル-CoA不飽和化酵素1
10	2,666,517	1452757_s_at	Hba-a1 /// Hba-a2	Hemoglobin alpha1 /// Hemoglobin alpha 2
11	2,658,265	1451557_at	Tat	tyrosine aminotransferase
12	2,619,513	1449321_x_at	Serpina1a	Alpha-1 protease inhibitor 1
13	2,529,704	1424599_at	Fgl1	Fibrinogen-like protein 1

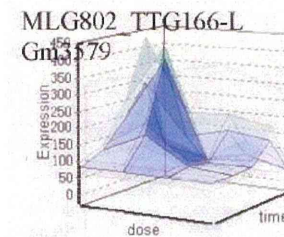
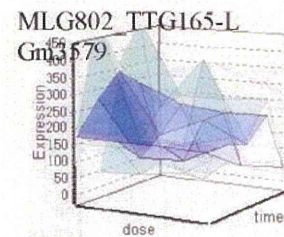
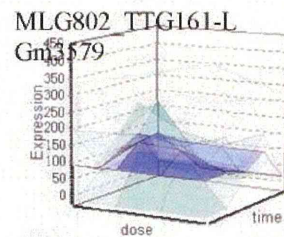
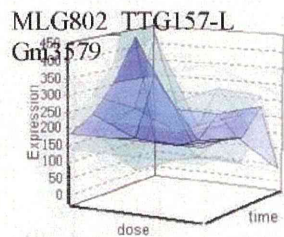
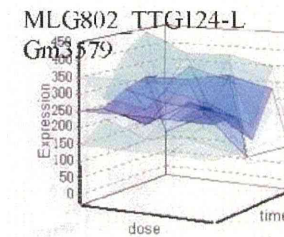
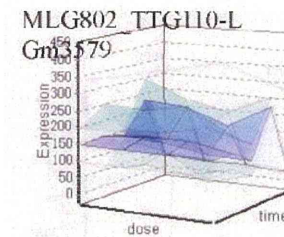
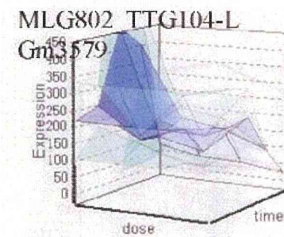
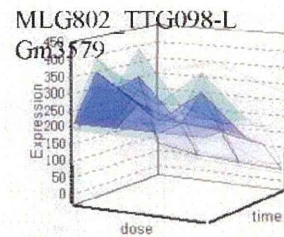
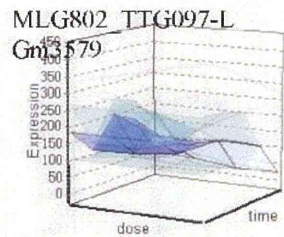
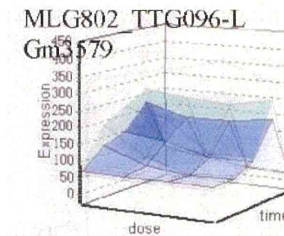
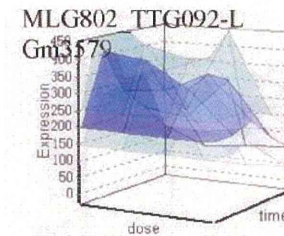
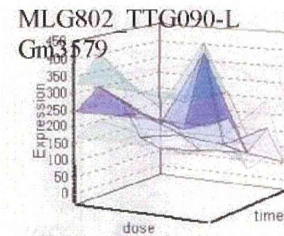
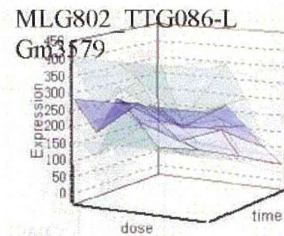
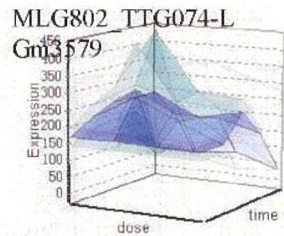
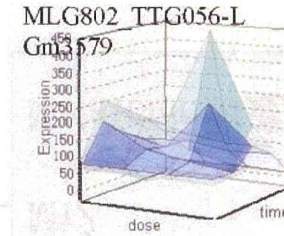
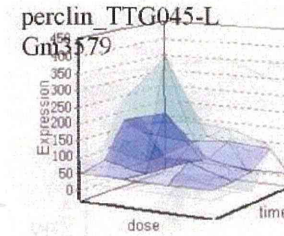
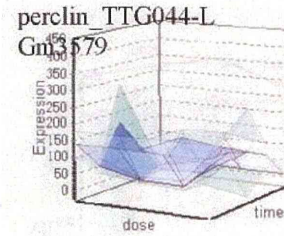
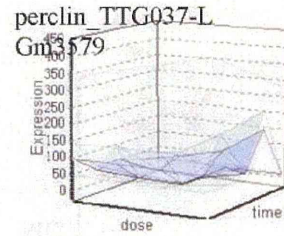
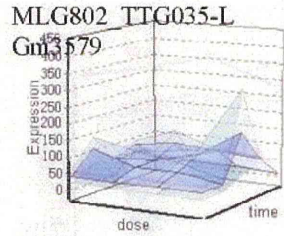
次ページより、各遺伝子のサーフェースを確認する



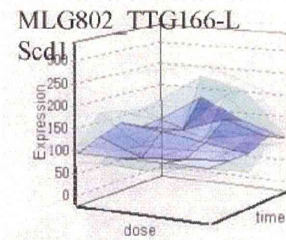
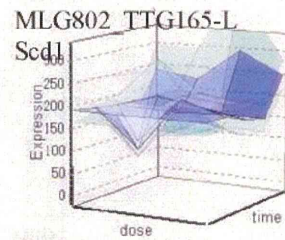
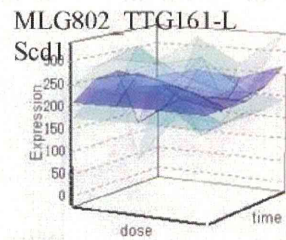
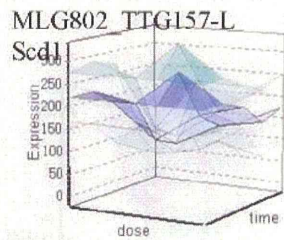
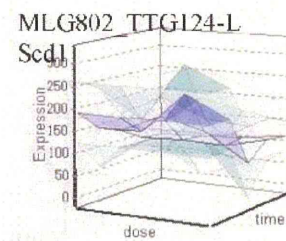
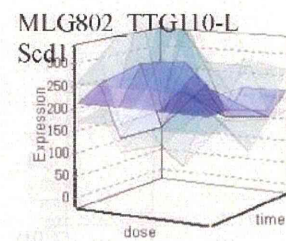
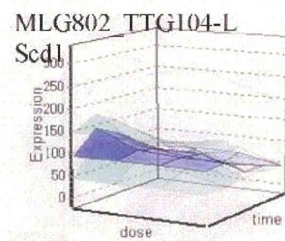
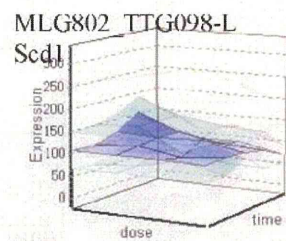
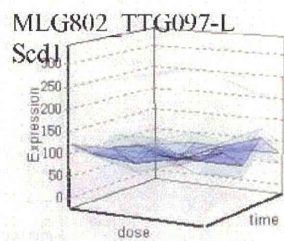
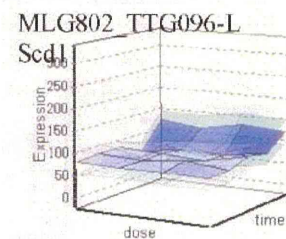
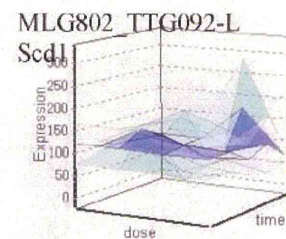
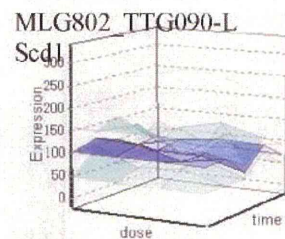
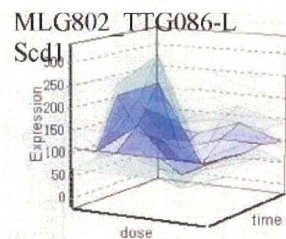
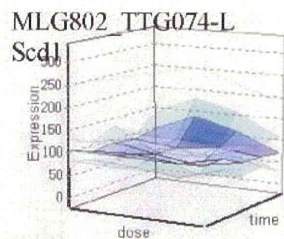
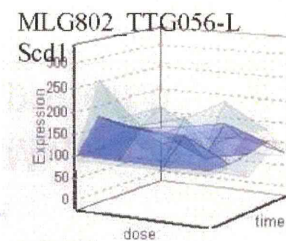
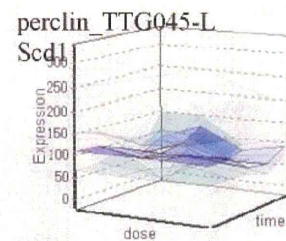
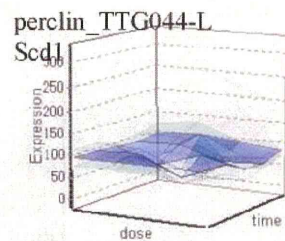
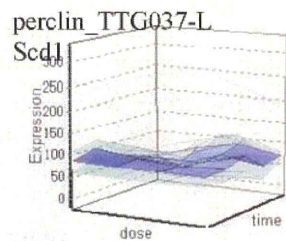
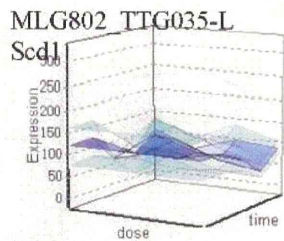
Mt1
Melatonin関連



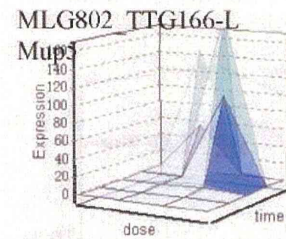
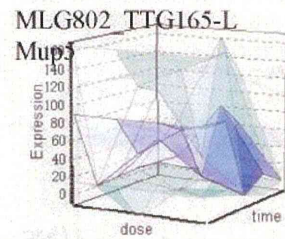
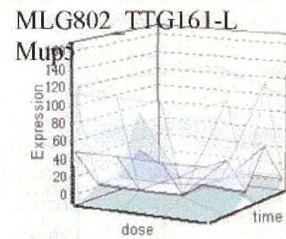
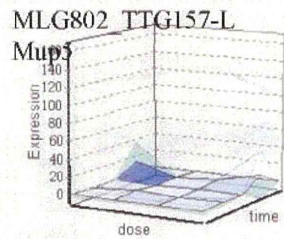
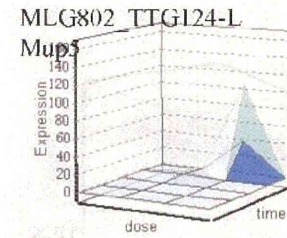
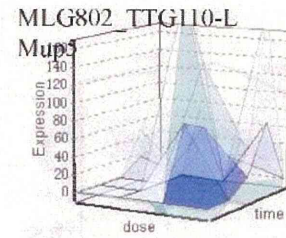
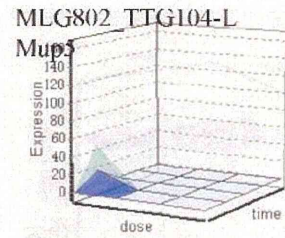
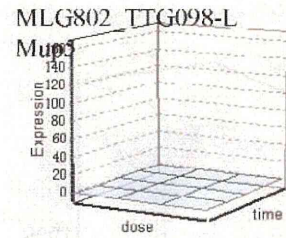
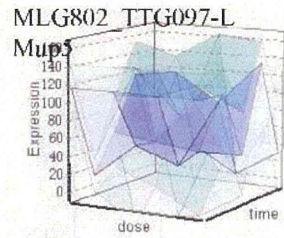
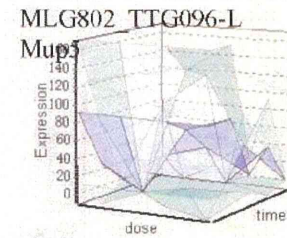
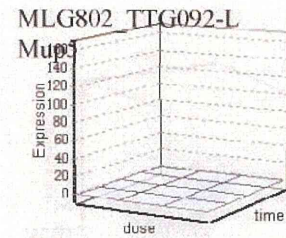
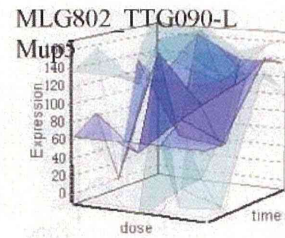
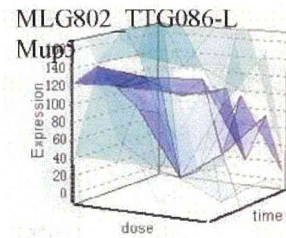
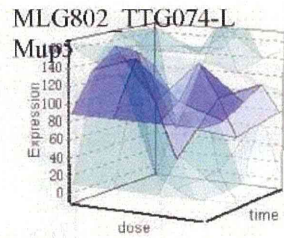
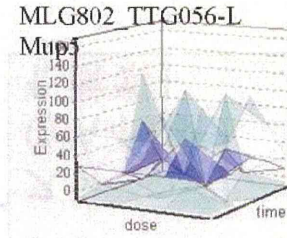
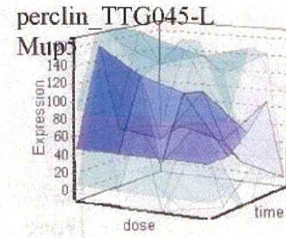
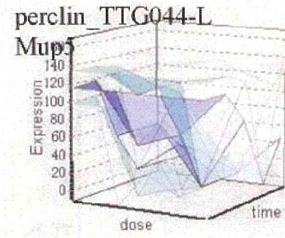
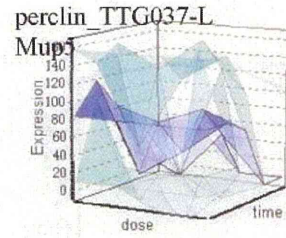
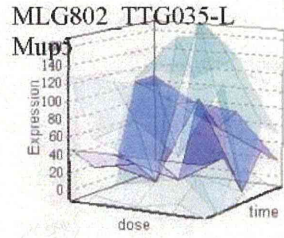
Mt2
Melatonin関連



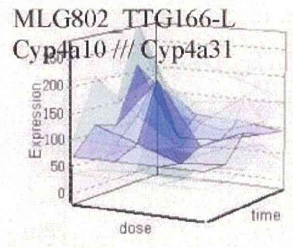
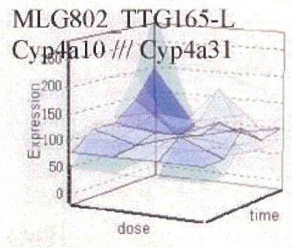
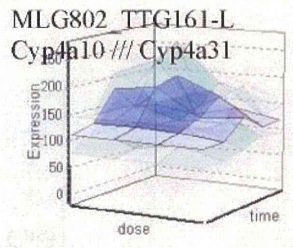
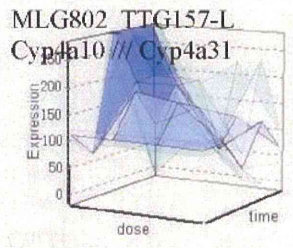
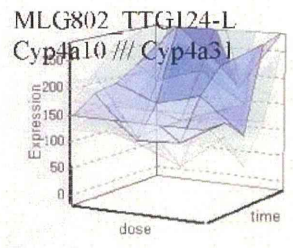
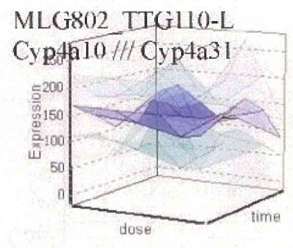
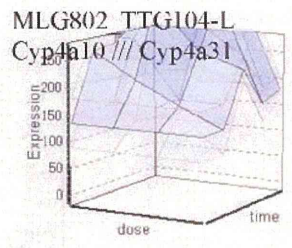
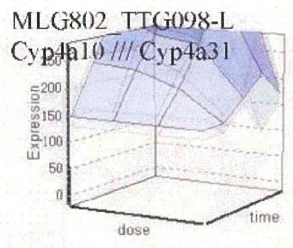
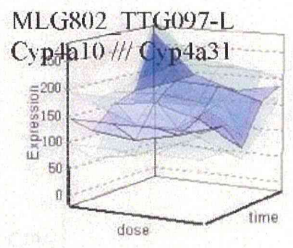
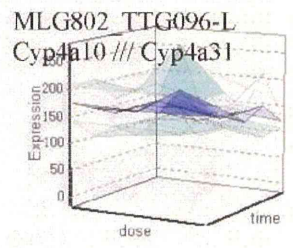
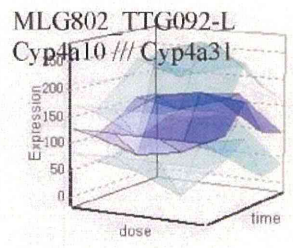
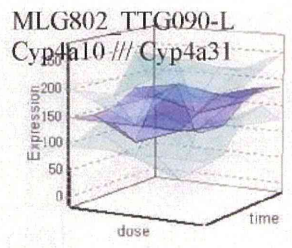
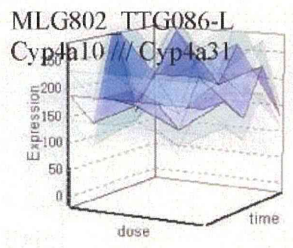
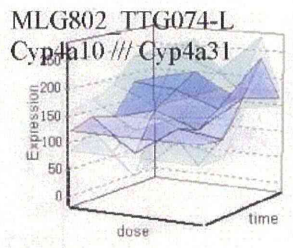
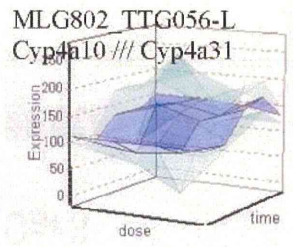
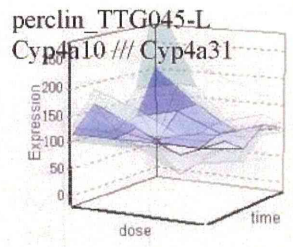
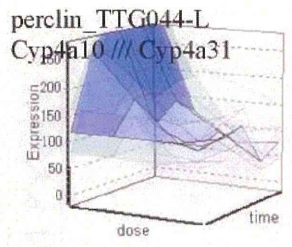
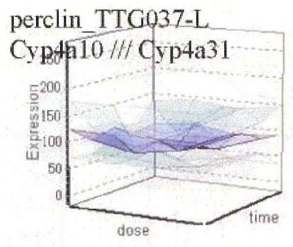
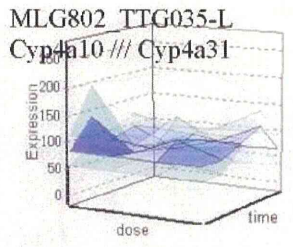
Gm3579



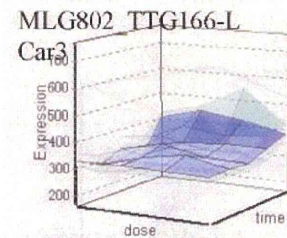
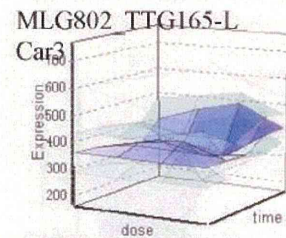
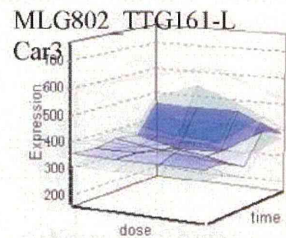
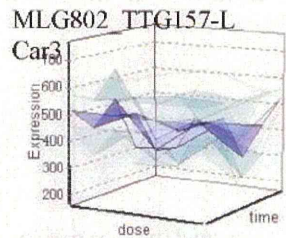
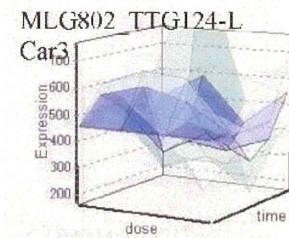
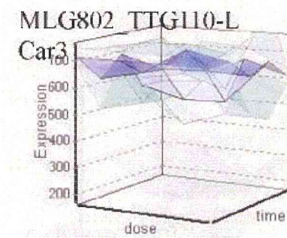
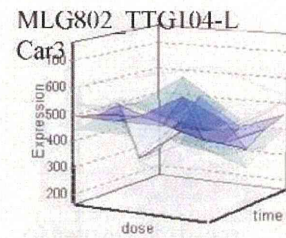
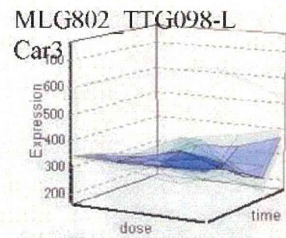
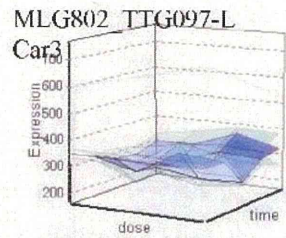
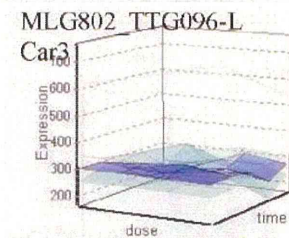
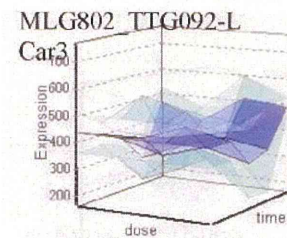
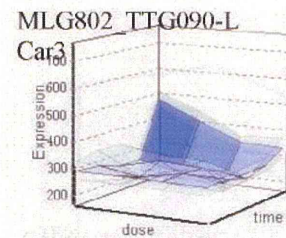
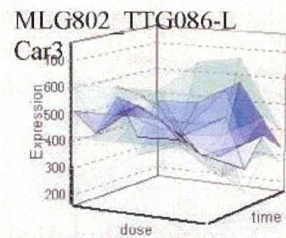
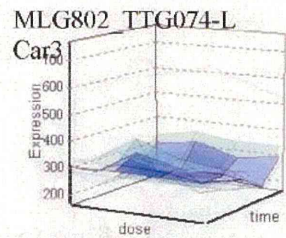
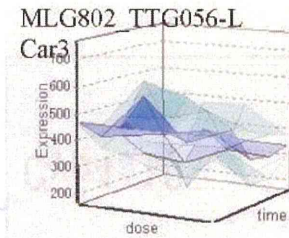
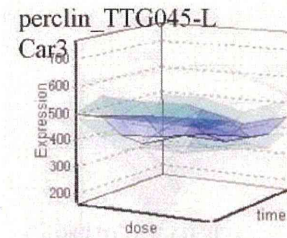
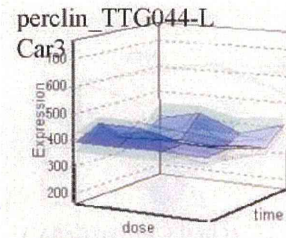
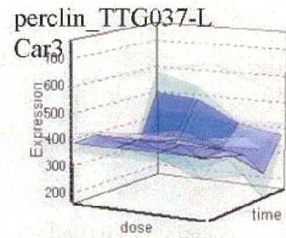
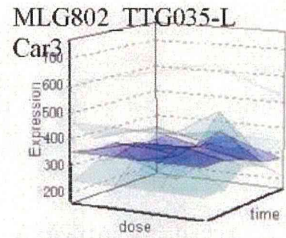
Scd1
ステアロイル-
CoA不飽和
化酵素1



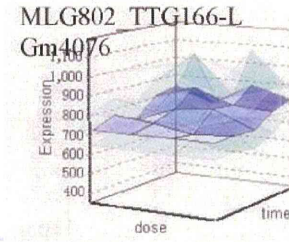
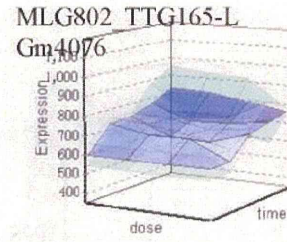
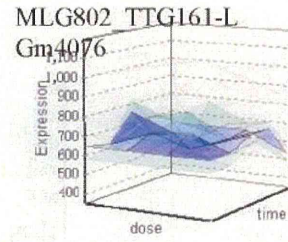
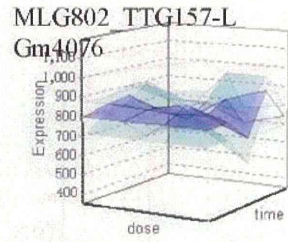
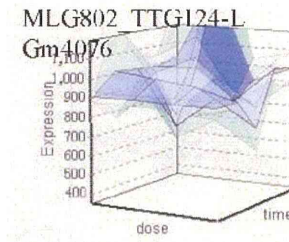
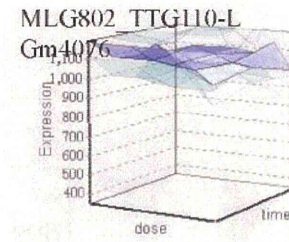
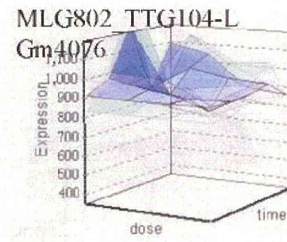
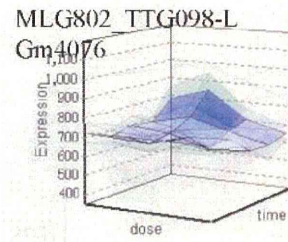
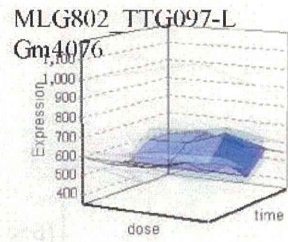
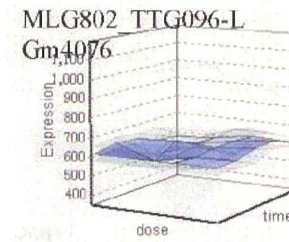
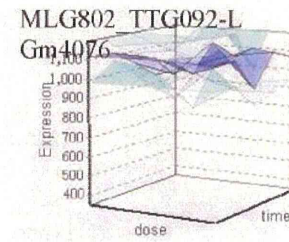
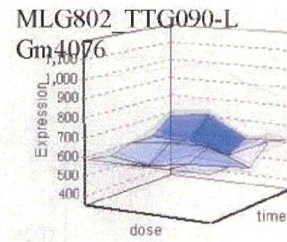
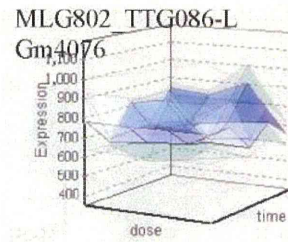
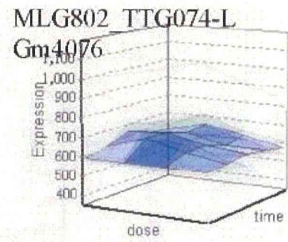
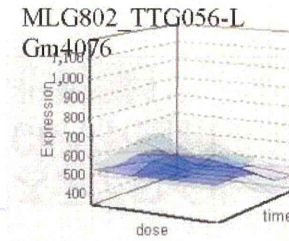
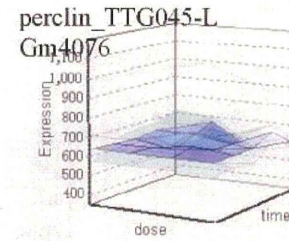
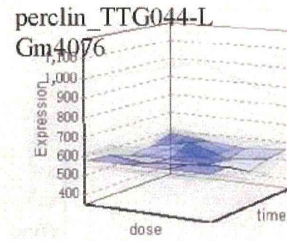
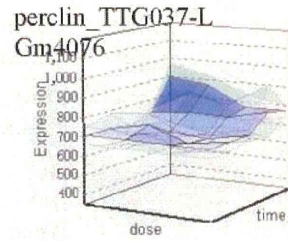
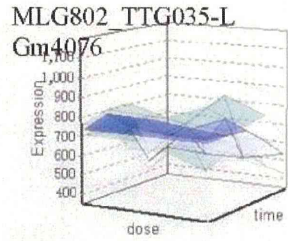
Mup5
Major urinary protein 5



Cyp4a10



Car3
脱炭酸酵素



Gm4076