

RSortによるPercellomeDB全データの自動処理

対象データ

	All	Liver	Lung	Kidney
強制経口(TTG)	161	116	17	28
吸入暴露(ITG)	46	23	23	0
total	207	139	40	28

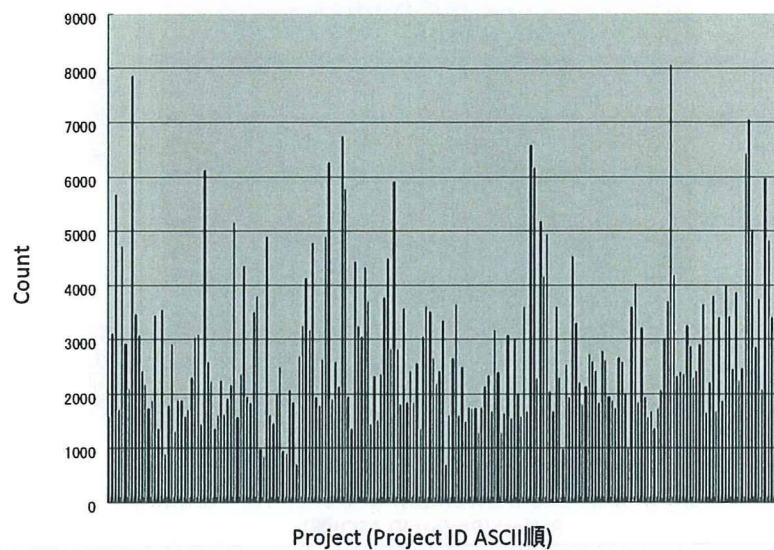
RSort抽出条件

- ピーク数 ≤ 2
- ピークのp値 ≤ 0.05
- 各時間の最大用量にて極大反応
- Expandモード ON

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RSortによるPercellomeDB全データの自動処理

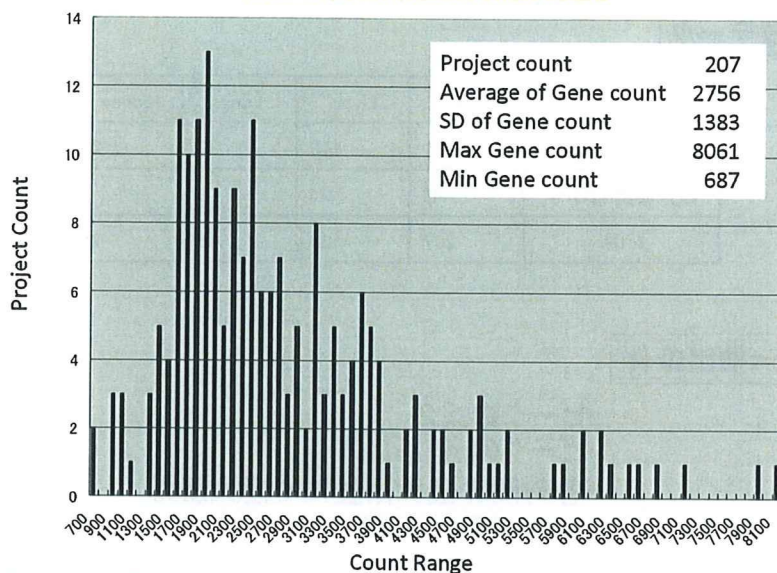
自動検出数



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RSortによるPercellomeDB全データの自動処理

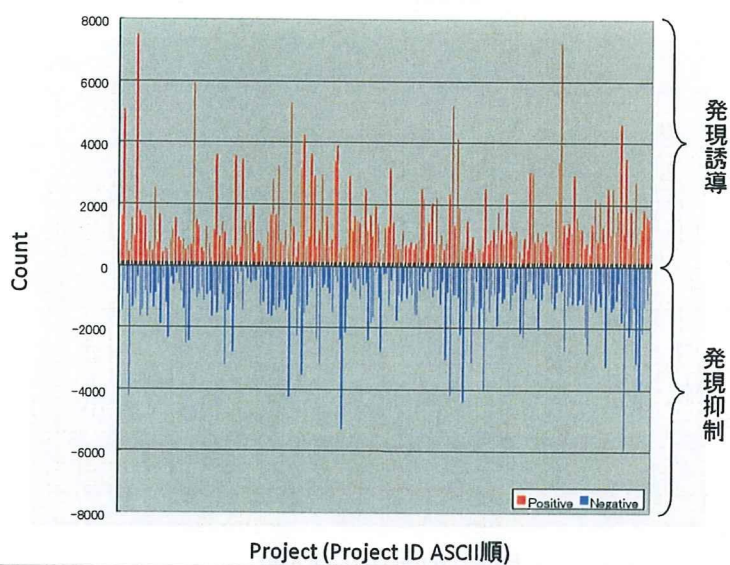
自動検出数の頻度分布



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RSortによるPercellomeDB全データの自動処理

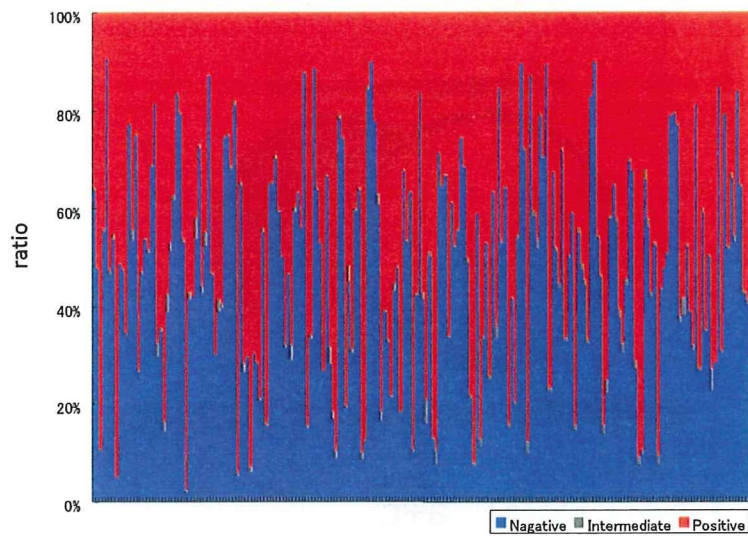
誘導/抑制される遺伝子の検出



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RSortによるPercellomeDB全データの自動処理

誘導/抑制される遺伝子の検出割合

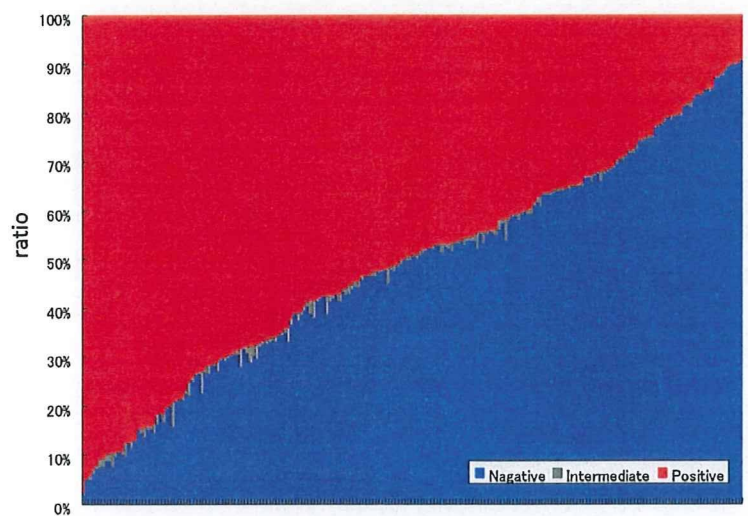


Project (Project ID ASCII順)

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RSortによるPercellomeDB全データの自動処理

誘導/抑制される遺伝子の検出割合



Project (正ピーク割合順)

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類似度による化学物質暴露影響の比較

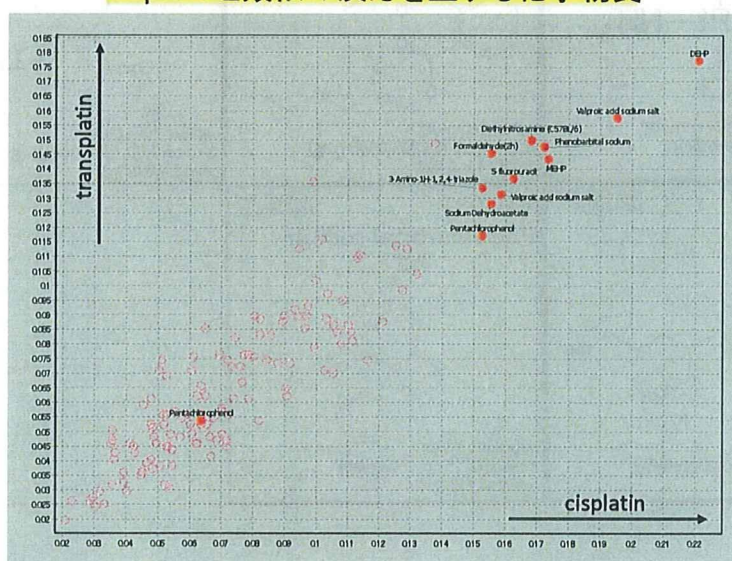
例) cisplatin(TTG040)と類似の反応を呈する化学物質
top10

TTG098-L	DEHP	0.221
TTG041-L	Valproic acid sodium salt	0.195
TTG104-L	MEHP	0.174
TTG037-L	Phenobarbital sodium	0.172
TTG054-L	Diethylnitrosamine (C57BL/6)	0.168
TTG160-L	5-fluorouracil	0.162
TTG157-L	Valproic acid sodium salt	0.159
ITG012-L	Formaldehyde(2h)	0.155
TTG154-L	Sodium Dehydroacetate	0.155
TTG016-L(C)	Pentachlorophenol	0.153

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類似度による化学物質暴露影響の比較

cisplatinと類似の反応を呈する化学物質



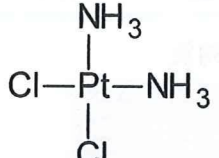
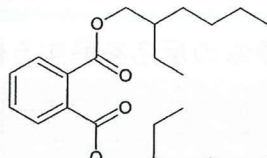
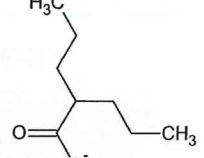
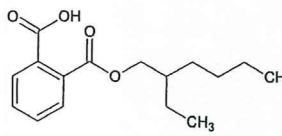
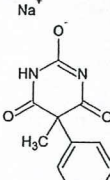
22

類似度による化学物質暴露影響の比較

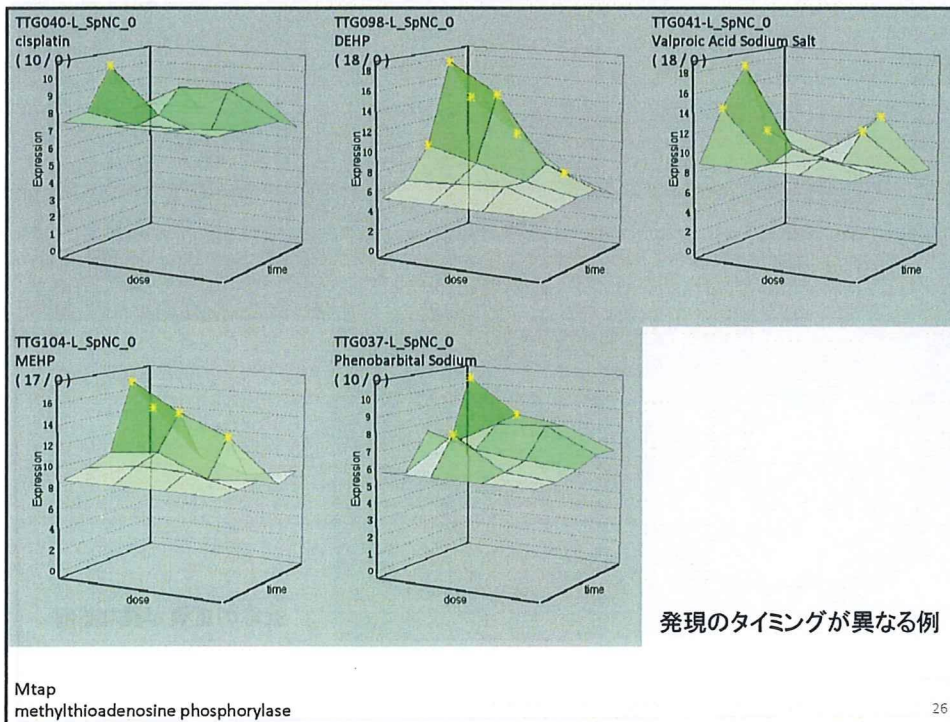
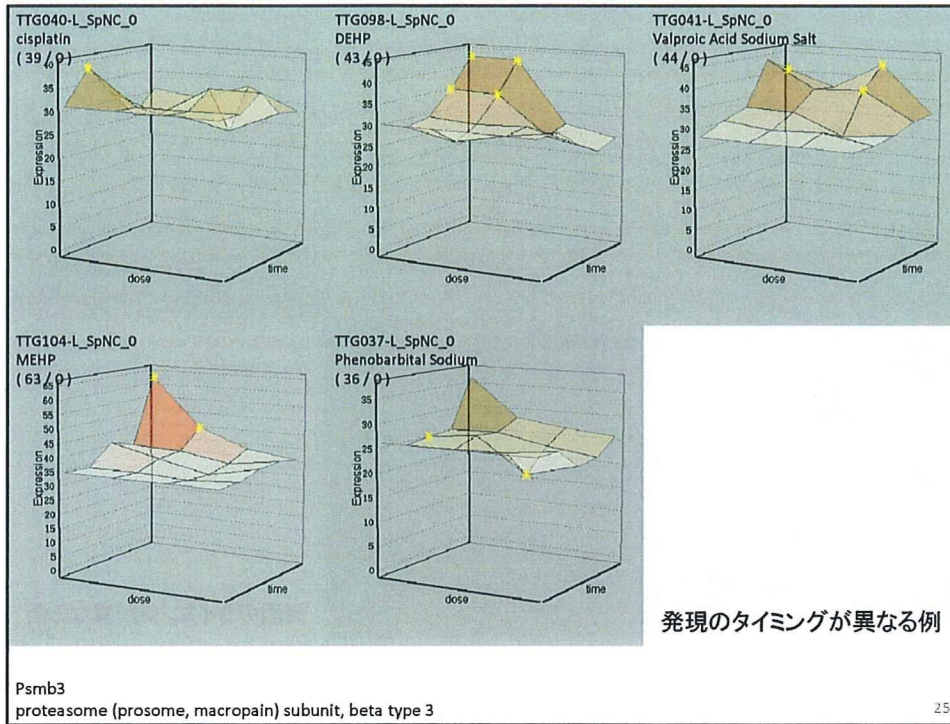
cisplatinとその類似反応化学物質によって
高頻度で誘導/抑制される遺伝子

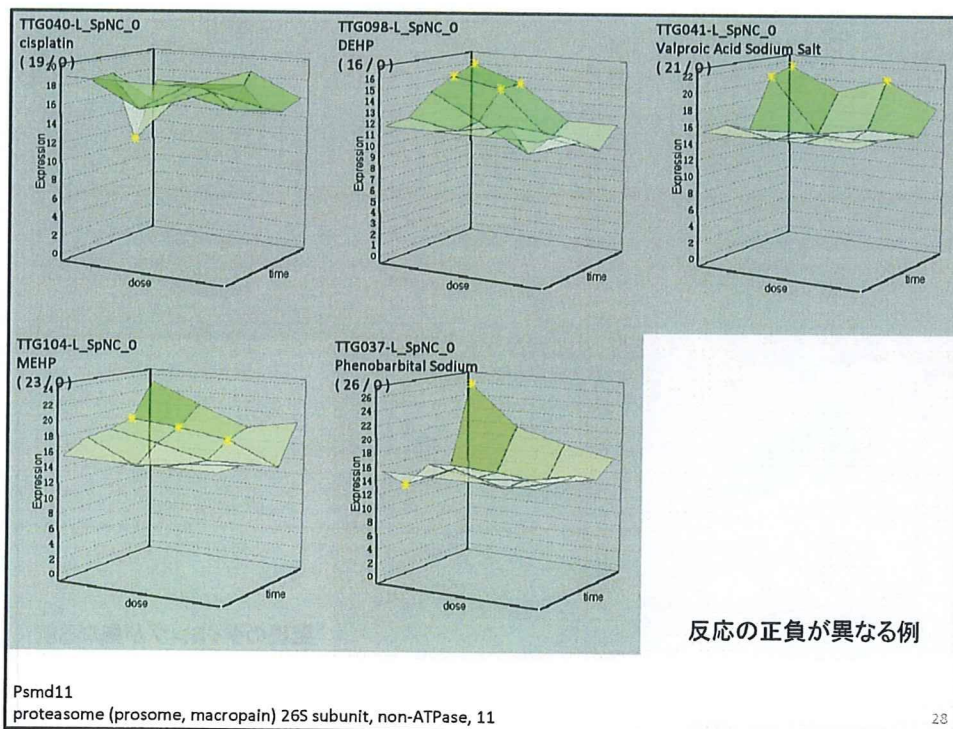
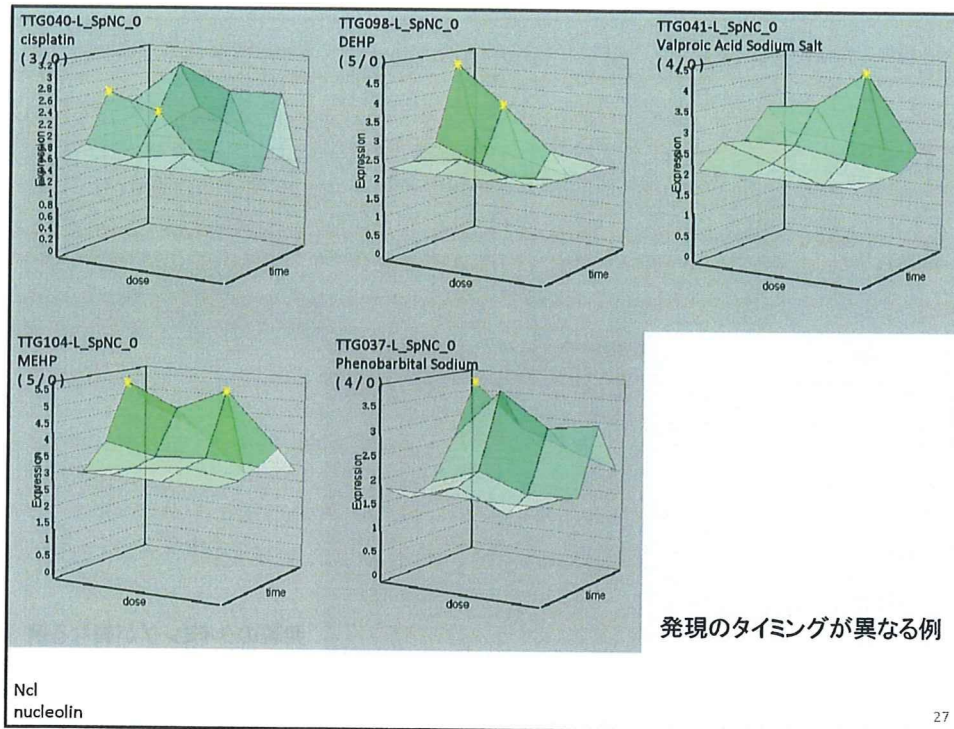
141762.at	4	Ptclb3	protease (cysteine, macrocyclic) subunit, beta type 3	AluAlu-transcribed protein catabolic process
143124.at	4	Ubpaa	methylnucleoside phosphotransferase	nucleoside metabolic process
143125.at	4	Ubpab	methylnucleoside phosphotransferase	nucleoside metabolic process
1416772.at	4	Npr	myelin	myelin metabolic process // @Axons metabolic process // actinactinosis // response to injury
1416347.at	4	PTSM1	PTSM1 (R600000000) // translocase of inner mitochondrial membrane	protein targeting to mitochondrion // intracellular protein transmembrane transport
145001.at	4	Transt2b	transaminase, cytosolic 2	
145470.x.at	4	Usoad	UIM and SH3 domain 1	ion transport
145639.at	4	Psmf11	protease (cysteine, macrocyclic) 26S subunit, non-ATPase 1	
1416007.at	4	U651406C07Rk	SH2 domain 4 (U651406C07) gene	
1422304.at	4	Uvck	uvonin	glucuronid metabolic process
1429187.x.at	4	Uvck	UVI-1	cell cycle
1429291.x.at	4	U651406C02Rk	SH2 domain 1 (U651406C02) gene	
141704.at	4	Hsckb	heat shock protein 8	protein amino acid catabolization // response to stress
1416353.at	4	Uajz	ubiquitin (U1) gene 2	
1438963.x.at	3	Ufcd1a	PSOX binding protein 1a	regulate resolution of protein amino acid catabolization // protein folding
145838.at	3	Uvrbp	uvrABC rich repeat containing B family, member C	
1416364.at	3	Ufcd1b	PSOX binding protein 1b	regulate resolution of protein amino acid catabolization // protein folding
1416365.at	3	Ufcd1c	PSOX binding protein 1c	regulate resolution of protein amino acid catabolization // protein folding
1450193.a.at	3	Ptclb3	protease (cysteine, macrocyclic) subunit, beta type 3	AluAlu-transcribed protein catabolic process
1424331.a.at	3	U651406C01a	SH2 domain 1 (U651406C01) gene	
1424332.a.at	3	U651406C02a	SH2 domain 2 (U651406C02) gene	
1424333.a.at	3	U651406C03a	SH2 domain 3 (U651406C03) gene	
1424334.a.at	3	U651406C04a	SH2 domain 4 (U651406C04) gene	
1424335.a.at	3	U651406C05a	SH2 domain 5 (U651406C05) gene	
1424336.a.at	3	U651406C06a	SH2 domain 6 (U651406C06) gene	
1424337.a.at	3	U651406C07a	SH2 domain 7 (U651406C07) gene	
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1424339.a.at	3	U651406C09a	SH2 domain 9 (U651406C09) gene	
1424340.a.at	3	U651406C10a	SH2 domain 10 (U651406C10) gene	
1424341.a.at	3	U651406C11a	SH2 domain 11 (U651406C11) gene	
1424342.a.at	3	U651406C12a	SH2 domain 12 (U651406C12) gene	
1424343.a.at	3	U651406C13a	SH2 domain 13 (U651406C13) gene	
1424344.a.at	3	U651406C14a	SH2 domain 14 (U651406C14) gene	
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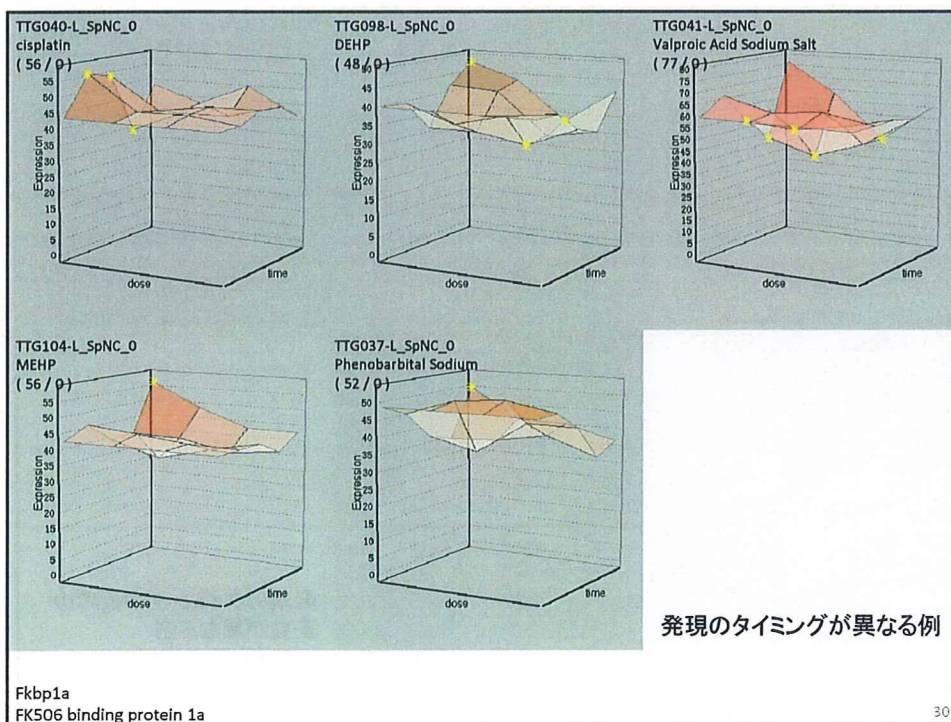
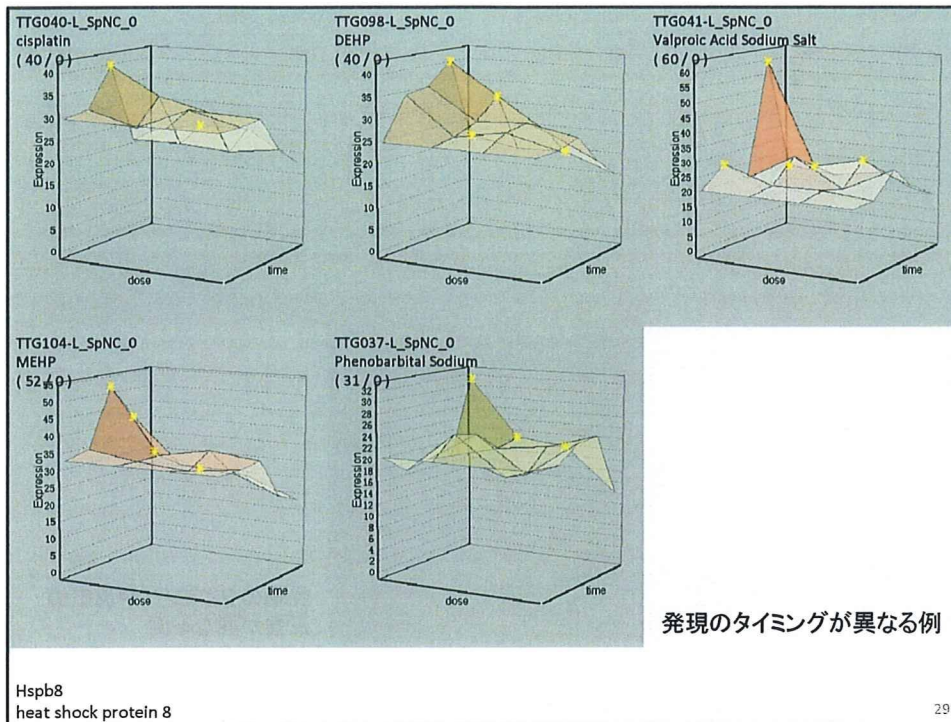
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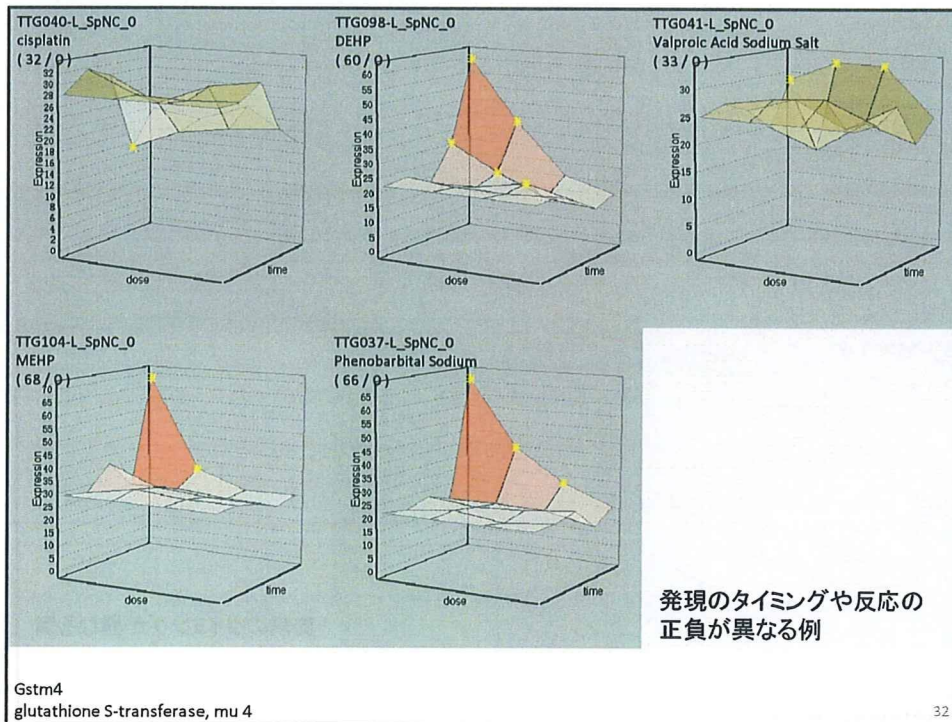
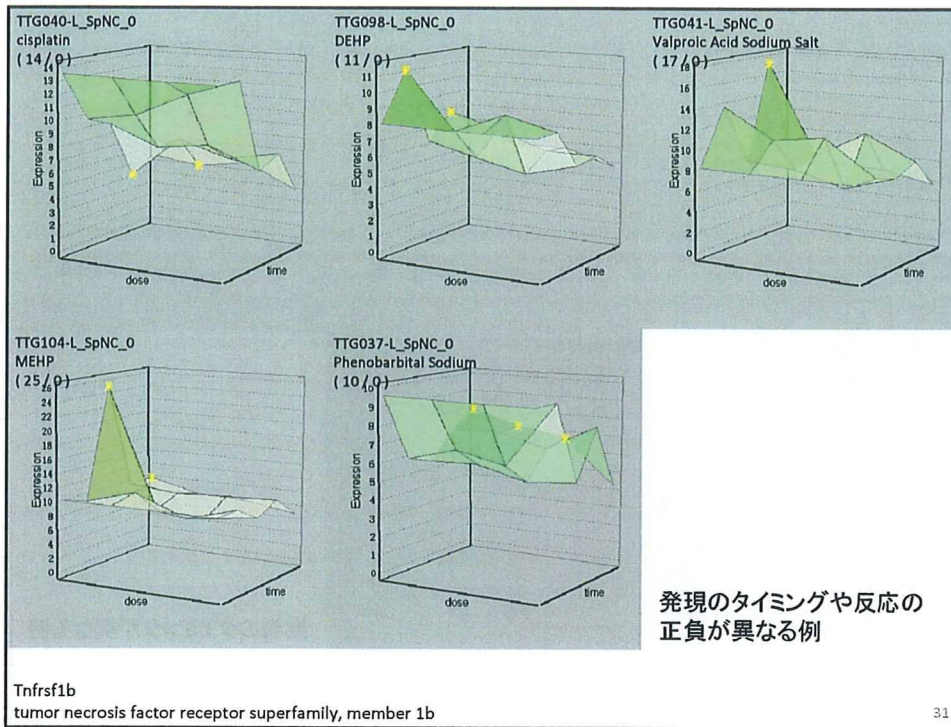
<p>TTG040 Cisplatin</p> <p>CAS 15663-27-1 MW=300.0468</p>  <p>vehicle[10%DMSO+corn oil] dosage[0,5,15,50mg/kg] time[2,4,8,24hr]</p>	<p>TTG098 DEHP</p> <p>CAS 117-81-7 MW=390.55</p>  <p>vehicle[corn oil] dosage[0,200,700,2000mg/kg] time[2,4,8,24hr]</p>	<p>TTG041 Valproic acid sodium salt</p> <p>CAS 1069-66-5 MW=166.195</p>  <p>vehicle[0.5%MC] dosage[0,50,150,500mg/kg] time[2,4,8,24hr]</p>
<p>TTG104 MEHP</p> <p>CAS 4376-20-9 MW=278.35</p>  <p>vehicle[corn oil] dosage[0,200,700,2000mg/kg] time[2,4,8,24hr]</p>	<p>TTG037 Phenobarbital sodium</p> <p>CAS 57-30-7 MW=254.22</p>  <p>vehicle[0.5%MC] dosage[0,15,50,150mg/kg] time[2,4,8,24hr]</p>	

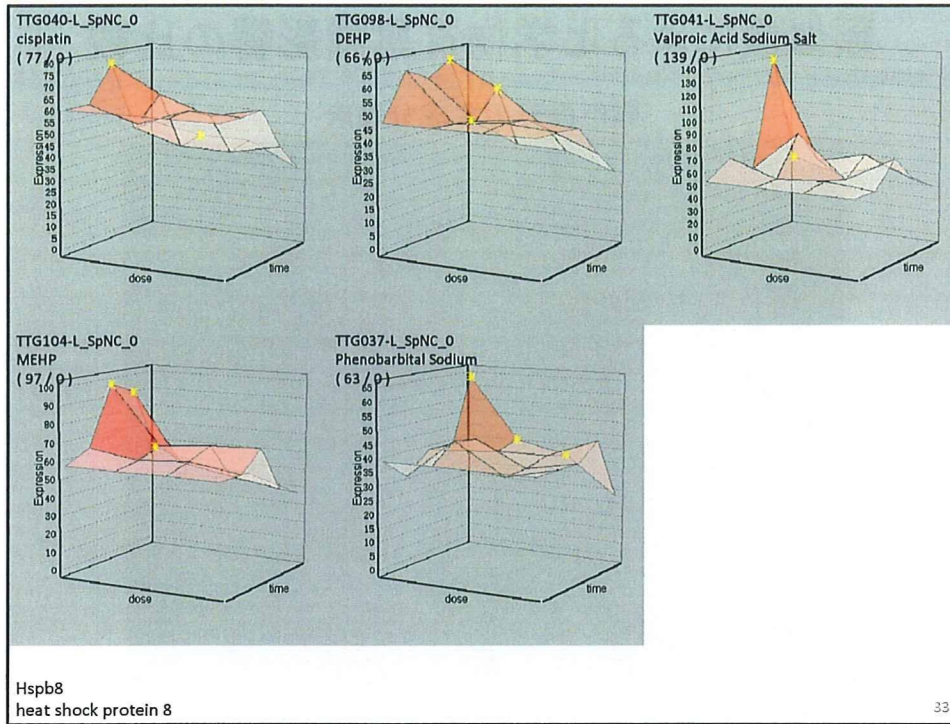
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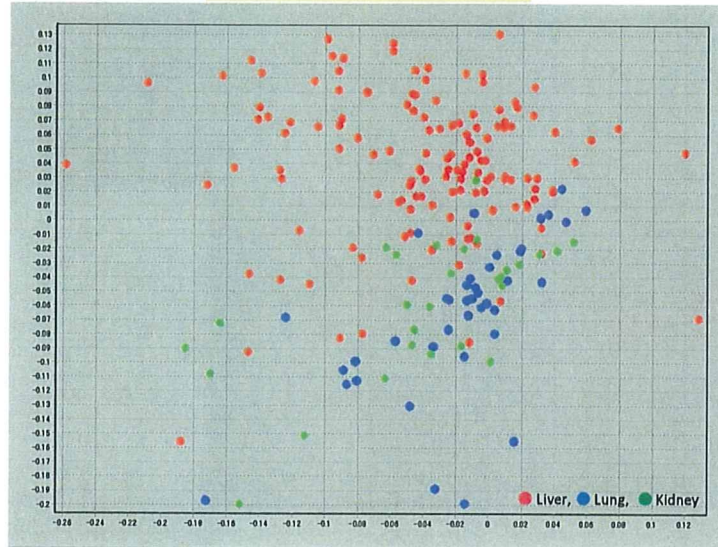




主成分表示(例)

類似度による化学物質暴露影響の比較

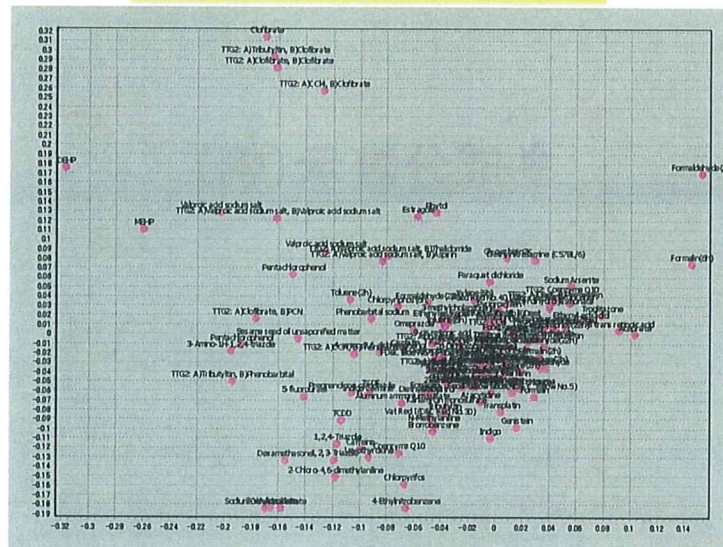
類似度表の主成分表示



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類似度による化学物質暴露影響の比較

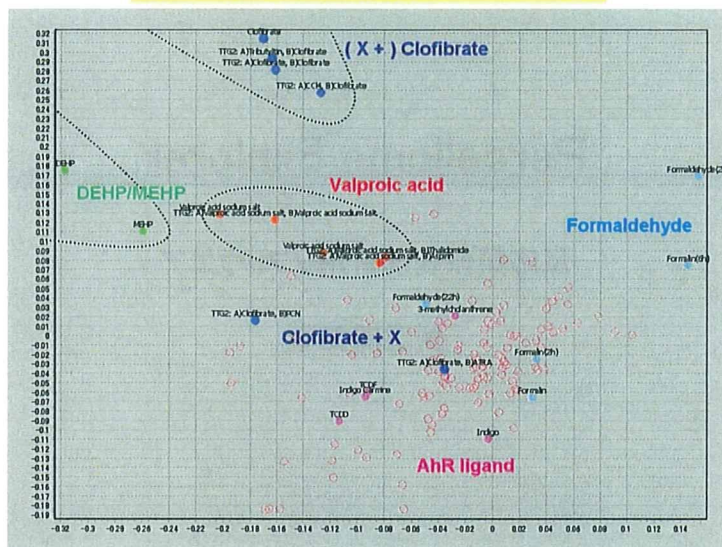
類似度表の主成分表示 (Liverのみ)



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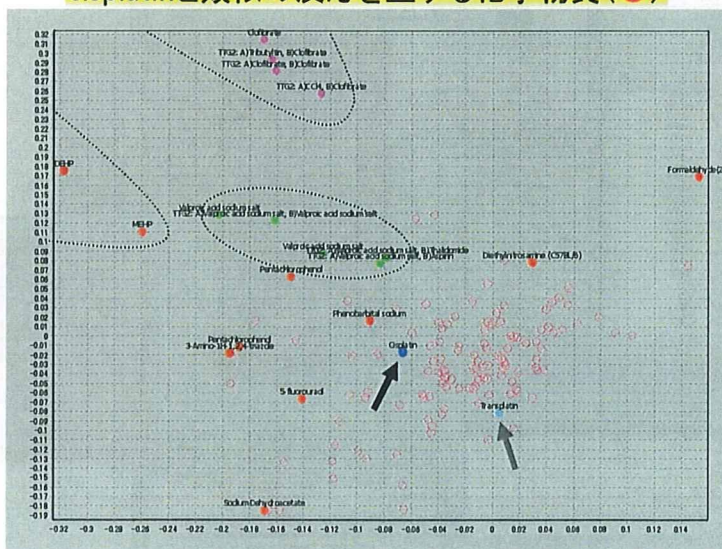
類似度による化学物質暴露影響の比較

類似度表の主成分表示 (Liverのみ)



類似度による化学物質暴露影響の比較

cisplatinと類似の反応を呈する化学物質(●)



responded only to TCDD (no response to TCDF)

List_No_1_0225.TXT

PrjID	Name	Condition	Cor	GL
2	ITG007-G	Formalin	1563	(MEMO)
3	ITG007-L	Formalin	3092	(MEMO)
4	ITG009-G	Acetaldehyde	5653	(MEMO)
5	ITG009-L	Acetaldehyde	1687	(MEMO)
6	ITG010-G	Toluene	4703	(MEMO)
7	ITG010-L	Toluene	2911	(MEMO)
8	ITG012-G	Formaldehyde	2085	(MEMO)
9	ITG012-L	Formaldehyde	7855	(MEMO)
10	ITG013-G	Toluene	3447	(MEMO)
	UserGL_and_ITGUserSelection_and_TCDD(2,3,7,8-Tetrachlorodibenzo-p-Dioxin)		69,343	(MEMO)
	UserGL_and_ITGUserSelection_and_DEHP		32,117	(MEMO)
	UserGL_and_ITGUserSelection_and_Valproic acid sodium salt		32,117	(MEMO)
	UserGL_and_ITGUserSelection_and_MEHP		30,657	(MEMO)
	UserGL_and_ITGUserSelection_and_3-Amino-1H-1,2,4-triazole		28,467	(MEMO)
	UserGL_and_ITGUserSelection_and_DEHP		28,467	(MEMO)
	UserGL_and_ITGUserSelection_and_Valproic Acid		26,277	(MEMO)
	UserGL_and_ITGUserSelection_and_3-methylolanthrene		26,277	(MEMO)
	UserGL_and_ITGUserSelection_and_Acephate		26,277	(MEMO)
	UserGL_and_ITGUserSelection_and_Valproic acid sodium salt		24,818	(MEMO)
	UserGL_and_ITGUserSelection_and_Valproic Acid		24,088	(MEMO)
	UserGL_and_ITGUserSelection_and_Pentachlorophenol		21,898	(MEMO)

responded to both TCDD and TCDF with a magnitude ratio of 1:0.1, obeying the TEF value

List_No_2_0225.TXT

PrjID	Name	Condition	Cor	GL
2	ITG007-G	Formalin	1563	(MEMO)
3	ITG007-L	Formalin	3092	(MEMO)
4	ITG009-G	Acetaldehyde	5653	(MEMO)
5	ITG009-L	Acetaldehyde	1687	(MEMO)
6	ITG010-G	Toluene	4703	(MEMO)
7	ITG010-L	Toluene	2911	(MEMO)
8	ITG012-G	Formaldehyde	2085	(MEMO)
9	ITG012-L	Formaldehyde	7855	(MEMO)
10	ITG013-G	Toluene	3447	(MEMO)
	UserGL_and_ITGUserSelection_and_TCDD(2,3,7,8-Tetrachlorodibenzo-p-Dioxin)		64.5	(MEMO)
	UserGL_and_ITGUserSelection_and_3-methylolanthrene		52.5	(MEMO)
	UserGL_and_ITGUserSelection_and_TCDF(2,3,7,8-Tetrachlorodibenzofuran)		49.5	(MEMO)
	UserGL_and_ITGUserSelection_and_DEHP		38.5	(MEMO)
	UserGL_and_ITGUserSelection_and_MEHP		34.5	(MEMO)
	UserGL_and_ITGUserSelection_and_Valproic acid sodium salt		34	(MEMO)
	UserGL_and_ITGUserSelection_and_3-Amino-1H-1,2,4-triazole		32.5	(MEMO)
	UserGL_and_ITGUserSelection_and_Pentachlorophenol		31.5	(MEMO)
	UserGL_and_ITGUserSelection_and_Phencobarbital		31.5	(MEMO)
	UserGL_and_ITGUserSelection_and_Valproic Acid		31.5	(MEMO)
	UserGL_and_ITGUserSelection_and_Sesame seed oil unspunified matter		26.5	(MEMO)
	UserGL_and_ITGUserSelection_and_Toluene		25.5	(MEMO)

ParcelOne Explorer

MOE430v2

Keyword

PtIID	Name	Condi	Cor	gl
2	ITG007-G	Formalin		
3	ITG007-L	Formalin		
4	ITG009	Acetaldehyde		
5	ITG009-G	Acetaldehyde		
	ITG010-G	Toluene		
7	ITG010-L	Toluene		
8	ITG012-G	Formaldehyde		
9	ITG012-L	Formaldehyde		
10	ITG013-G	Toluene		

responded to both TCDD and TCDF but with a magnitude ratio of 1:1, that is not obeying the TEF value

List_No_3_0225.TXT

LOC100047:

Name	Condition	Cor	gl
UserGL_and_ITGUserSelection_and_TCDF(2,3,7,8-Tetrachlorodibenzofuran)		76.923	(MEMO)
UserGL_and_ITGUserSelection_and_3-methylcholanthrene		61.538	(MEMO)
UserGL_and_ITGUserSelection_and_Xylene		53.846	(MEMO)
UserGL_and_ITGUserSelection_and_Toluene		46.154	(MEMO)
UserGL_and_ITGUserSelection_and_Pentachlorophenol		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_Valproic Acid		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_Tributyltin		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_MEHP		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_Sodium Dehydroacetate		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_Valproic acid sodium salt		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_Valproic acid sodium salt		38.462	(MEMO)
UserGL_and_ITGUserSelection_and_Acetaldehyde		30.769	(MEMO)
UserGL_and_ITGUserSelection_and_Acetaldehyde		30.769	(MEMO)
UserGL_and_ITGUserSelection_and_Styrene		30.769	(MEMO)
UserGL_and_ITGUserSelection_and_Chlorpyrifos		30.769	(MEMO)
UserGL_and_ITGUserSelection_and_TCDD(2,3,7,8-Tetrachlorodibenzo-p-Dioxin)		30.769	(MEMO)

Stand by.....

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ParcelOne Explorer

MOE430v2

Keyword

PtIID	Name	Condi	Cor	gl
2	ITG007-G	Formalin		
3	ITG007-L	Formalin		
4	ITG009	Acetaldehyde		
5	ITG009-G	Acetaldehyde		
6	ITG010-G	Toluene		
7	ITG010-L	Toluene		
8	ITG012-G	Formaldehyde		
9	ITG012-L	Formaldehyde		
10	ITG013-G	Toluene		

responded only to TCDF (no response to TCDD)

List_No_4_0225.TXT

Name	Condition	Cor	gl
UserGL_and_ITGUserSelection_and_TCDF(2,3,7,8-Tetrachlorodibenzofuran)		100	(MEMO)
UserGL_and_ITGUserSelection_and_Methanol		100	(MEMO)
UserGL_and_ITGUserSelection_and_DEHP		66.667	(MEMO)
UserGL_and_ITGUserSelection_and_alpha-Lipoic Acid		66.667	(MEMO)
UserGL_and_ITGUserSelection_and_5-Fluorouracil		66.667	(MEMO)
UserGL_and_ITGUserSelection_and_Chlorpyrifos		33.333	(MEMO)
UserGL_and_ITGUserSelection_and_Toluene		33.333	(MEMO)
UserGL_and_ITGUserSelection_and_Formaldehyde		33.333	(MEMO)
UserGL_and_ITGUserSelection_and_Styrene		33.333	(MEMO)
UserGL_and_ITGUserSelection_and_Xylene		33.333	(MEMO)
UserGL_and_ITGUserSelection_and_p-Dichlorobenzene		33.333	(MEMO)
UserGL_and_ITGUserSelection_and_Formalin		33.333	(MEMO)

Stand by.....

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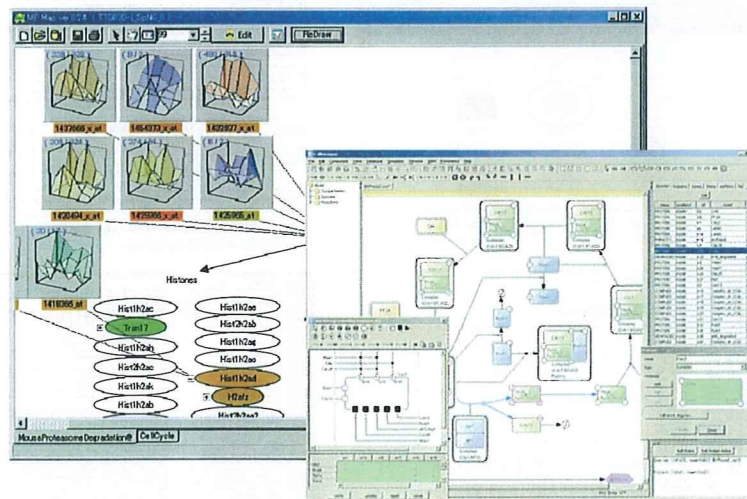
ネットワーク表現

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MF Map

→ SBML*対応 予定

*Systems Biology Markup Language



Cell Designer

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MGI phenotype情報の結合

Affymetrix Annotation

AffyID(unique)
Common
GenBank
Description

A2C

AffyID
Common
GenBank

HMD

Human Common
Murine Common
Human EntrezID
MGI ID
MPID*

VOC

MPID*
Name
Def

* Mammalian Phenotype ID

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MGI phenotype情報の結合

Affymetrix Annotation

AffyID(unique)
Common
GenBank
Description

A2C

AffyID
Common
GenBank

HMD

Human Common
Murine Common
Human EntrezID
MGI ID
MPID*

VOC

MPID*
Name
Def

* Mammalian Phenotype ID

phenotype記載のあるProbeSet	12182
ProbeSet当たりのphenotypeの最大数	31
ProbeSet当たりのphenotypeの平均	6.7
定義されているphenotypeの種類	9977
記載されるphenotypeの種類	33

1	growth/size phenotype	5554
2	homeostasis/metabolism phenotype	5109
3	nervous system phenotype	5016
4	lethality-prenatal/perinatal	5012
5	immune system phenotype	4224
6	behavior/neurological phenotype	4173
7	hematopoietic system phenotype	3590
8	cardiovascular system phenotype	3411
9	reproductive system phenotype	3170
10	life span-post-weaning/aging	3146
11	embryogenesis phenotype	2993
12	cellular phenotype	2950
13	normal phenotype	2702
14	lethality-postnatal	2601
15	endocrine/exocrine gland phenotype	2579
16	skeleton phenotype	2281
17	muscle phenotype	2222
18	digestive/alimentary phenotype	2138
19	respiratory system phenotype	1950
20	vision/eye phenotype	1906
21	skin/coat/nails phenotype	1890
22	craniofacial phenotype	1687
23	liver/biliary system phenotype	1649
24	renal/urinary system phenotype	1646
25	no phenotypic analysis	1522
26	limbs/digits/tail phenotype	1381
27	tumorigenesis	1322
28	hearing/vestibular/ear phenotype	1202
29	adipose tissue phenotype	949
30	pigmentation phenotype	577
31	touch/vibrissae phenotype	574
32	other phenotype	342
33	taste/olfaction phenotype	169

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MGI phenotype情報の結合

cisplatinとその類似反応化学物質によって
高頻度で誘導/抑制される遺伝子(一部)

1416142_at	Ros6	5370	liver/biliary system phenotype
1416142_at	Ros6	5376	homeostasis/metabolism phenotype
1416142_at	Ros6	5379	endocrine/exocrine gland phenotype
1416142_at	Ros6	5381	digestive/alimentary phenotype
1416142_at	Ros6	5384	cellular phenotype
1416282_at	Psmc3	5374	lethality-prenatal/perinatal
1416282_at	Psmc3	5380	embryogenesis phenotype
1416282_at	Psmc3	5389	reproductive system phenotype
1418099_at	Tnfrsf1b	3631	nervous system phenotype
1418099_at	Tnfrsf1b	5370	liver/biliary system phenotype
1418099_at	Tnfrsf1b	5374	lethality-prenatal/perinatal
1418099_at	Tnfrsf1b	5375	adipose tissue phenotype
1418099_at	Tnfrsf1b	5376	homeostasis/metabolism phenotype
1418099_at	Tnfrsf1b	5379	endocrine/exocrine gland phenotype
1418099_at	Tnfrsf1b	5381	digestive/alimentary phenotype
1418099_at	Tnfrsf1b	5384	cellular phenotype
1418099_at	Tnfrsf1b	5387	immune system phenotype
1418099_at	Tnfrsf1b	5390	skeleton phenotype
1418099_at	Tnfrsf1b	5397	hematopoietic system phenotype
1418237_s_at	Col18a1	2006	tumor/genesis
1418237_s_at	Col18a1	5385	cardiovascular system phenotype
1418237_s_at	Col18a1	5391	vision/eye phenotype
1418237_s_at	Col18a1	5395	other phenotype
1418674_at	Osmr	5397	hematopoietic system phenotype
1418840_at	Pdc4d	2006	tumor/genesis
1418840_at	Pdc4d	3012	no phenotypic analysis
1418840_at	Pdc4d	5367	renal/urinary system phenotype
1418840_at	Pdc4d	5372	life span-post-weaning/aging
1418840_at	Pdc4d	5379	endocrine/exocrine gland phenotype
1418840_at	Pdc4d	5387	immune system phenotype
1418840_at	Pdc4d	5389	reproductive system phenotype

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PercellomeDB公開サービス

<New Version>

Coming Soon...

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