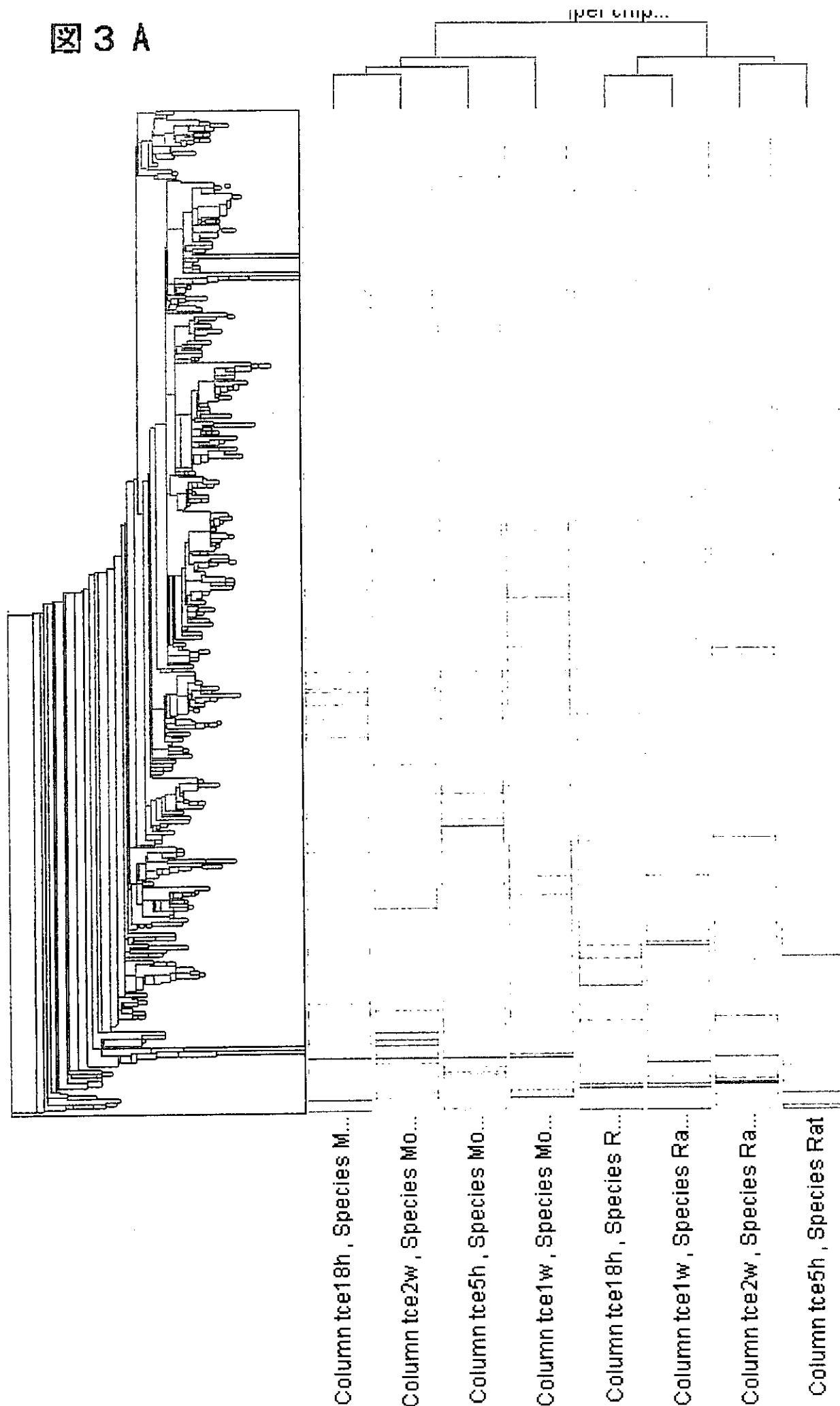


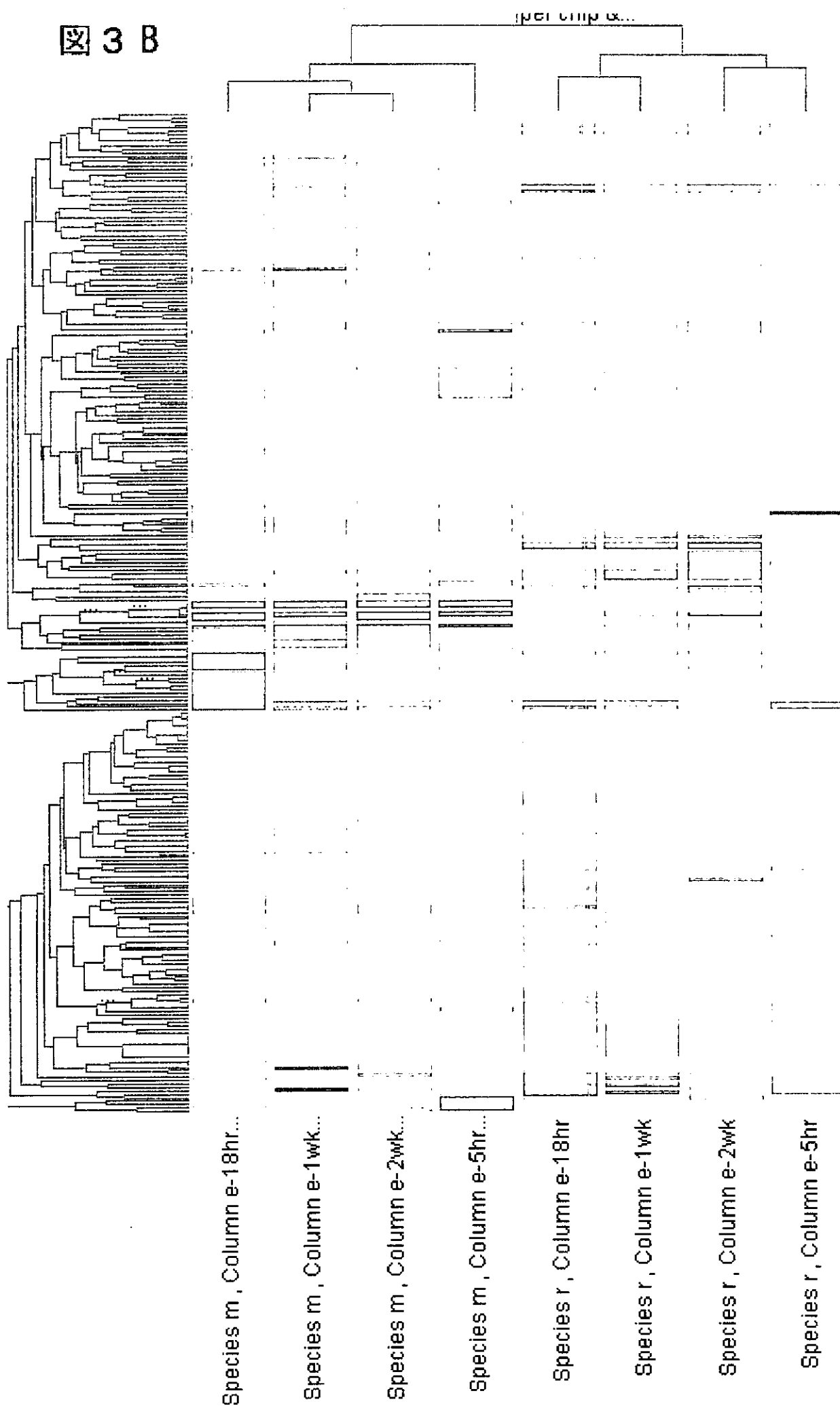
図 3 A



Selected Gene Tree: per chip and tce/co...
 Selected Experiment Tree: per chip and tce/co...

Colored by: N/A
 Gene List: all genes less ∞あり (7613), 187...

图 3 B



Selected Gene Tree: per chip & exposed...
 Selected Experiment Tree: per chip & exposed...

Colored by: N/A
 Gene List: all genes (299)

4A Mouse cellular component

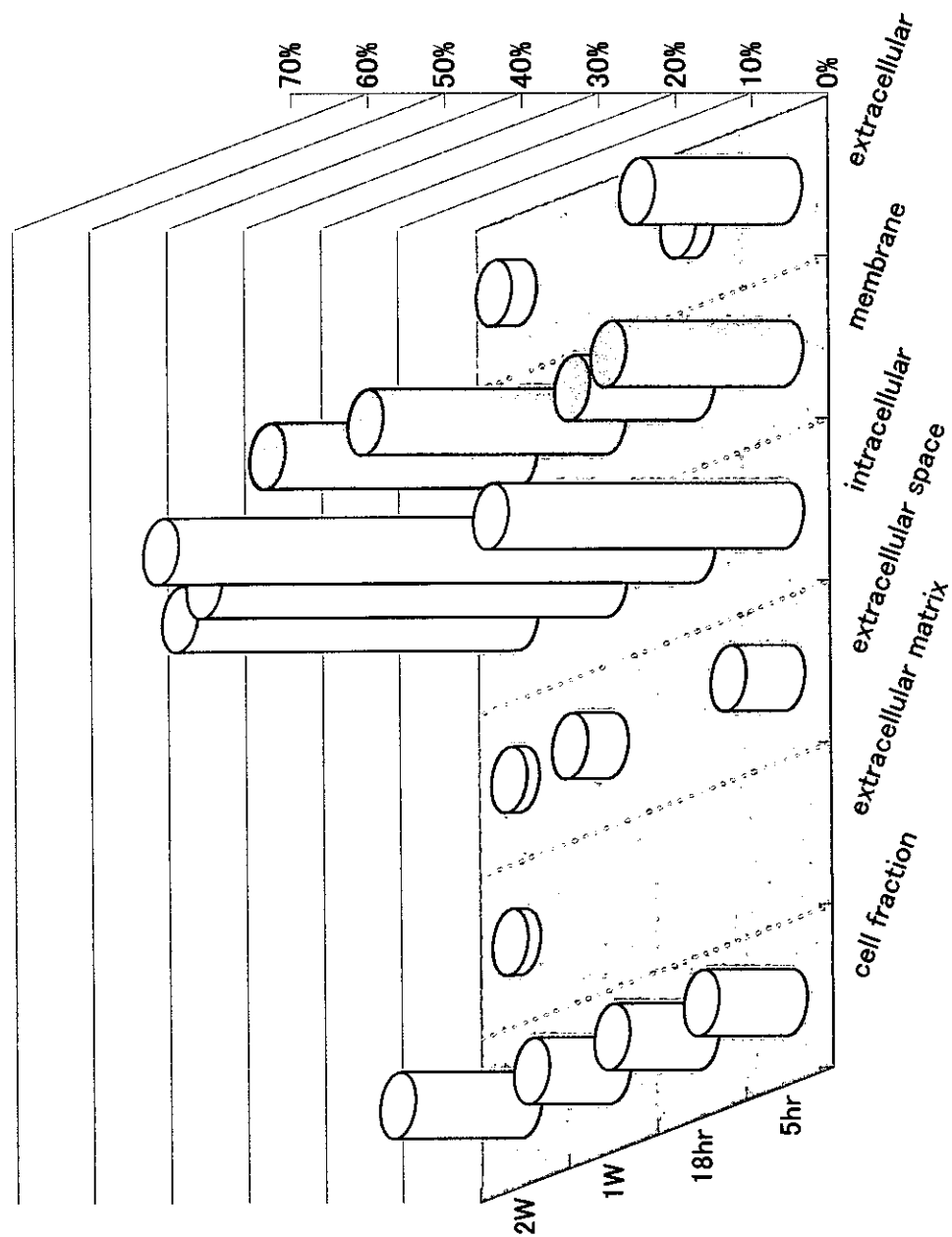


图4B Rat cellular component

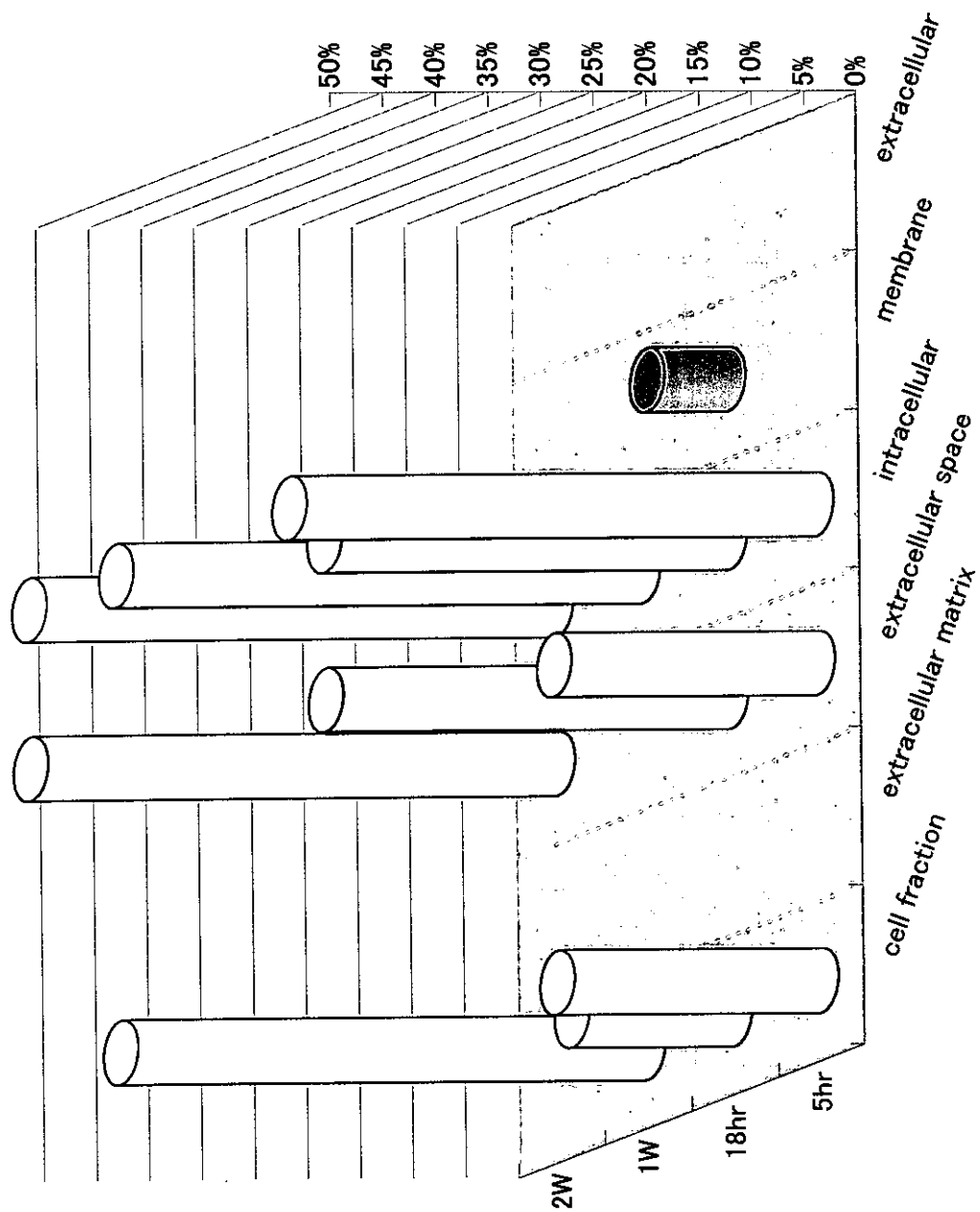


Figure 4C Mouse molecular function

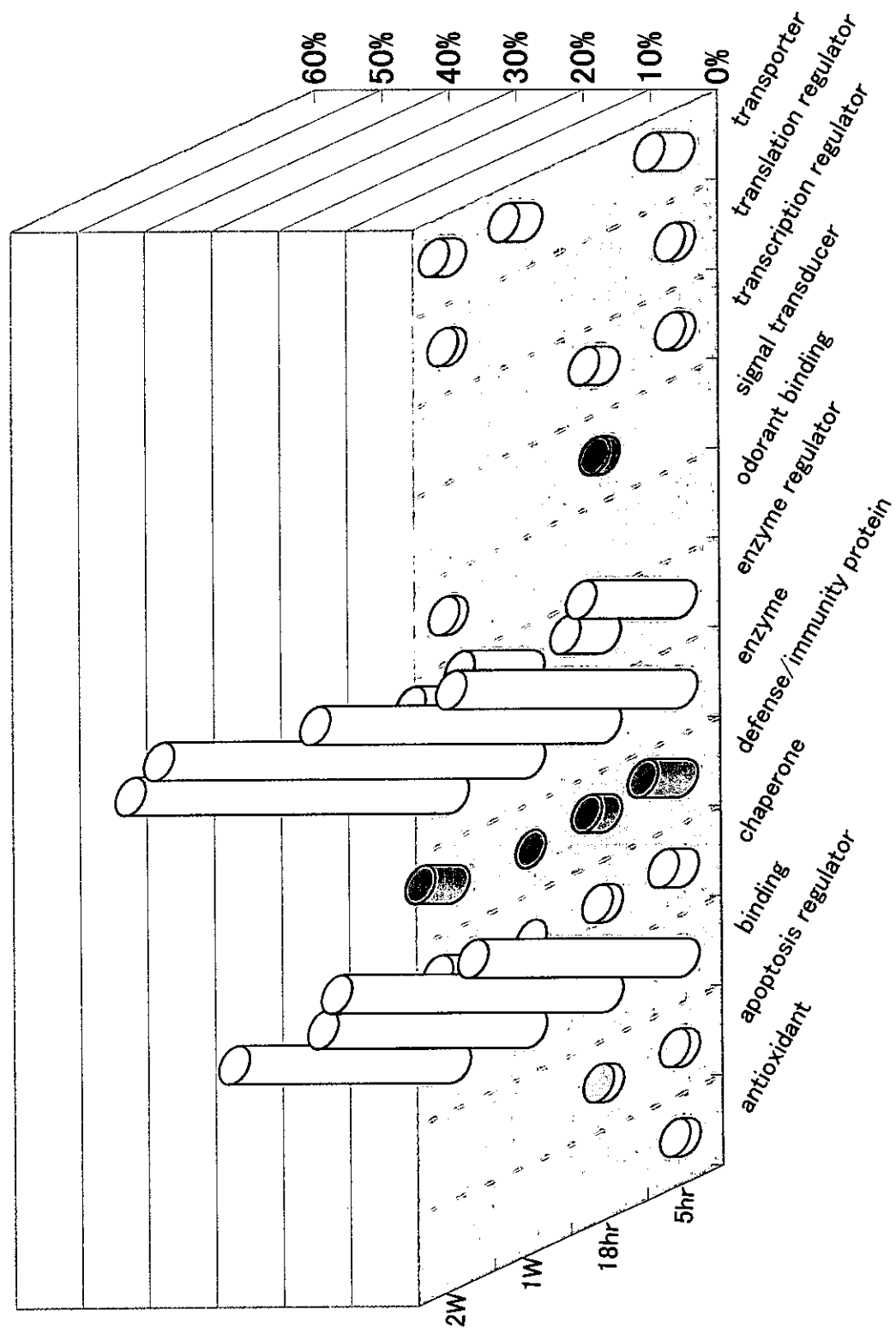
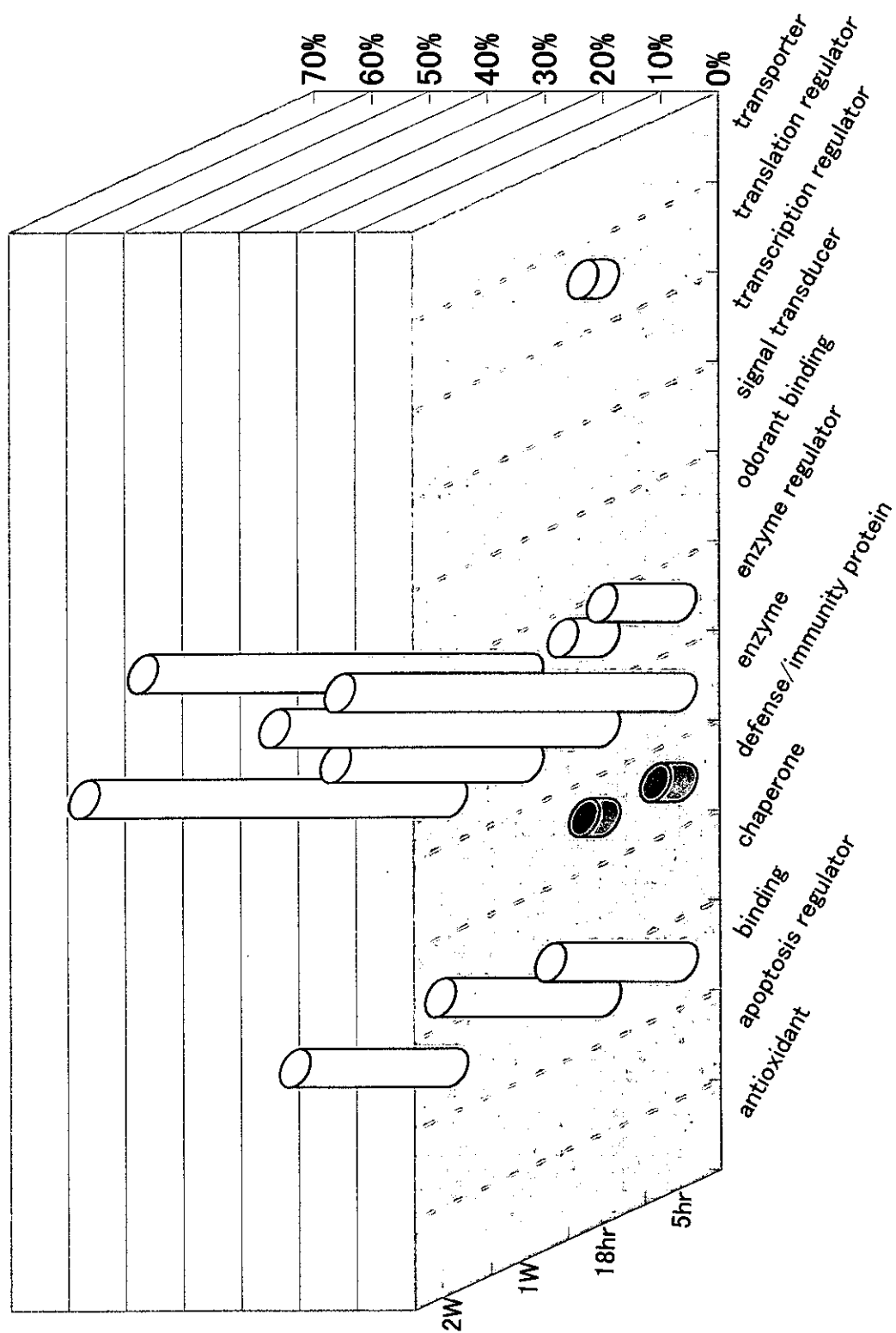
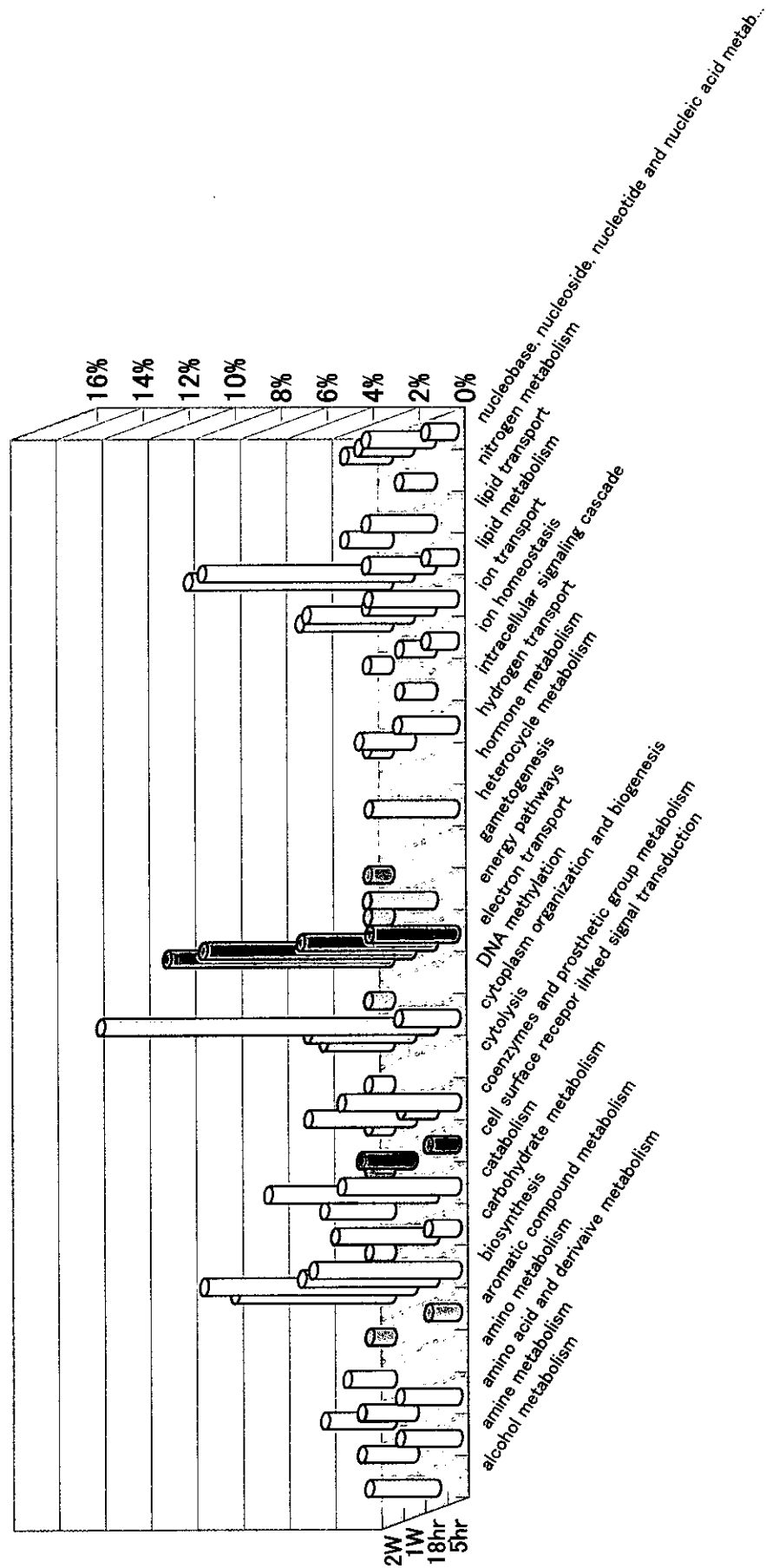


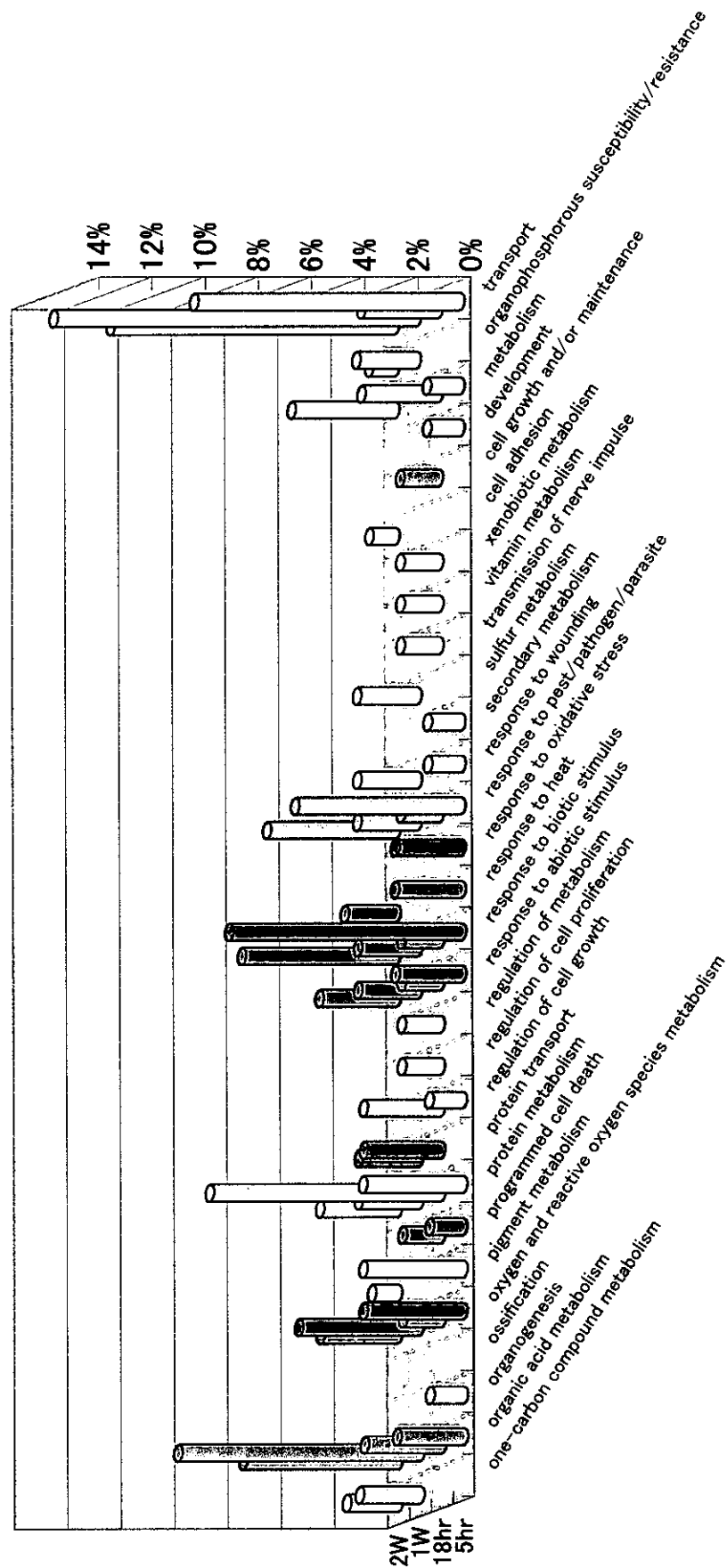
图4D Rat molecular function



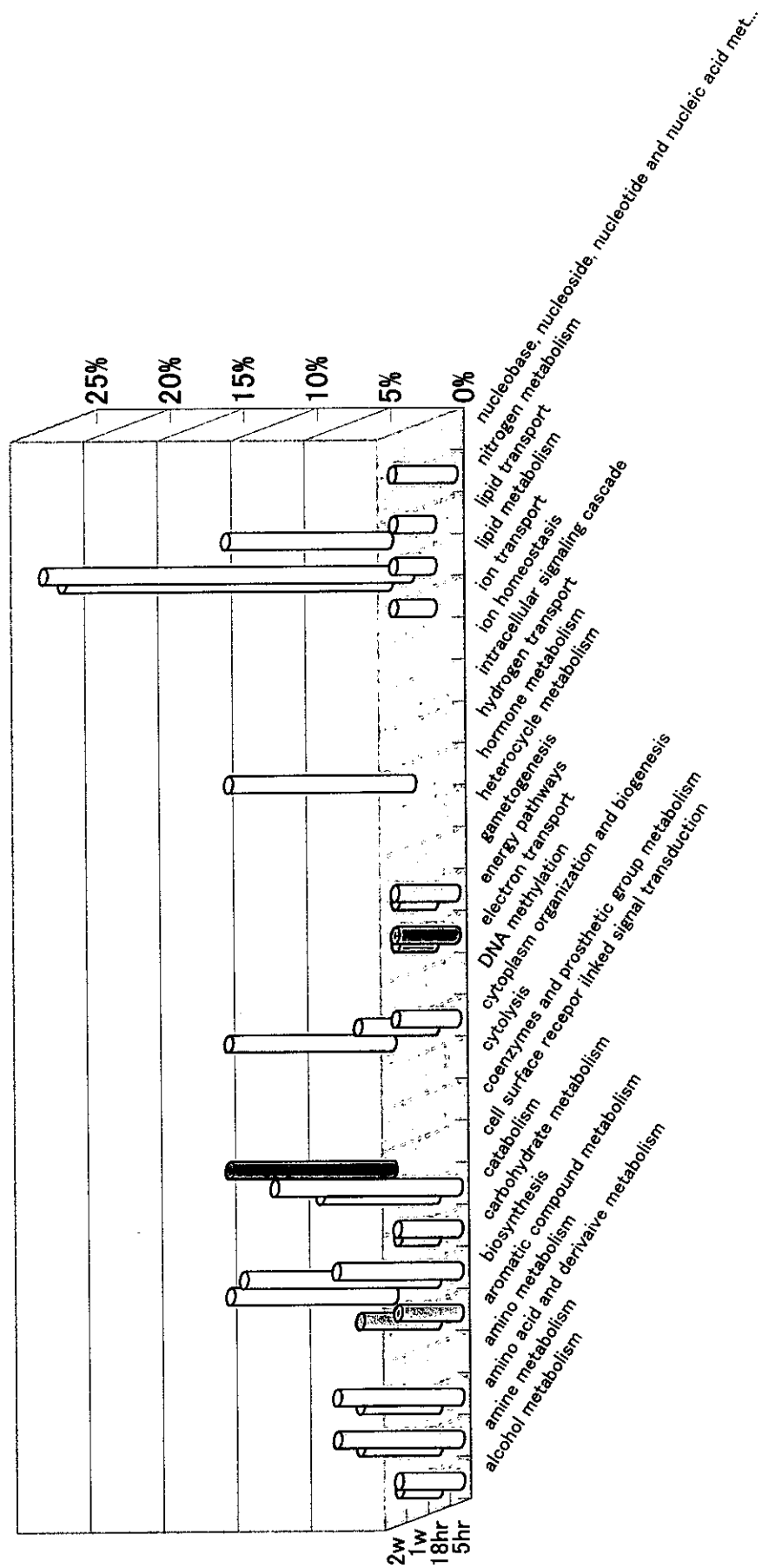
4E Mouse biological process 1



4F Mouse biological process 2



4G Rat biological process 1



4H Rat biological process 2

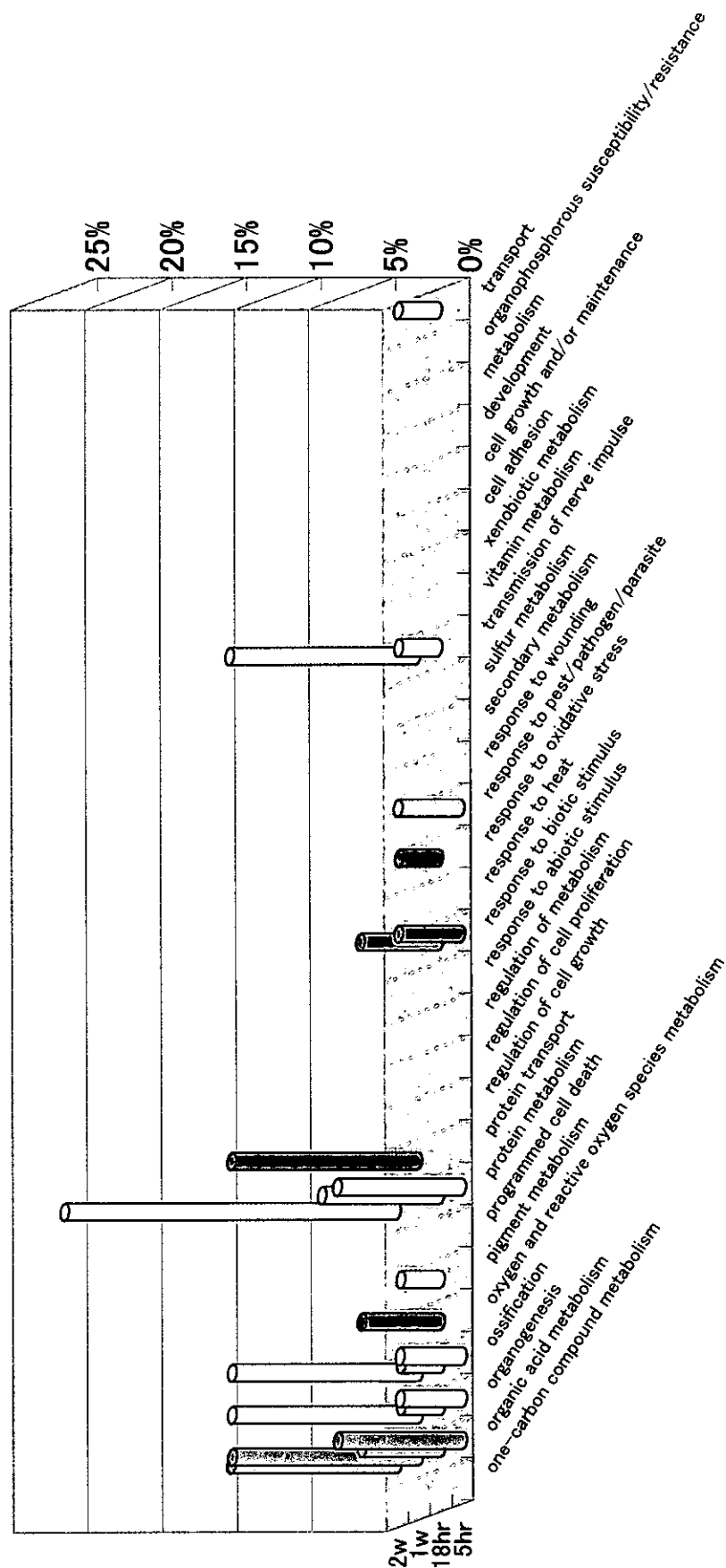


図5 ペルオキシゾームにおける脂肪酸の β 酸化カスケード

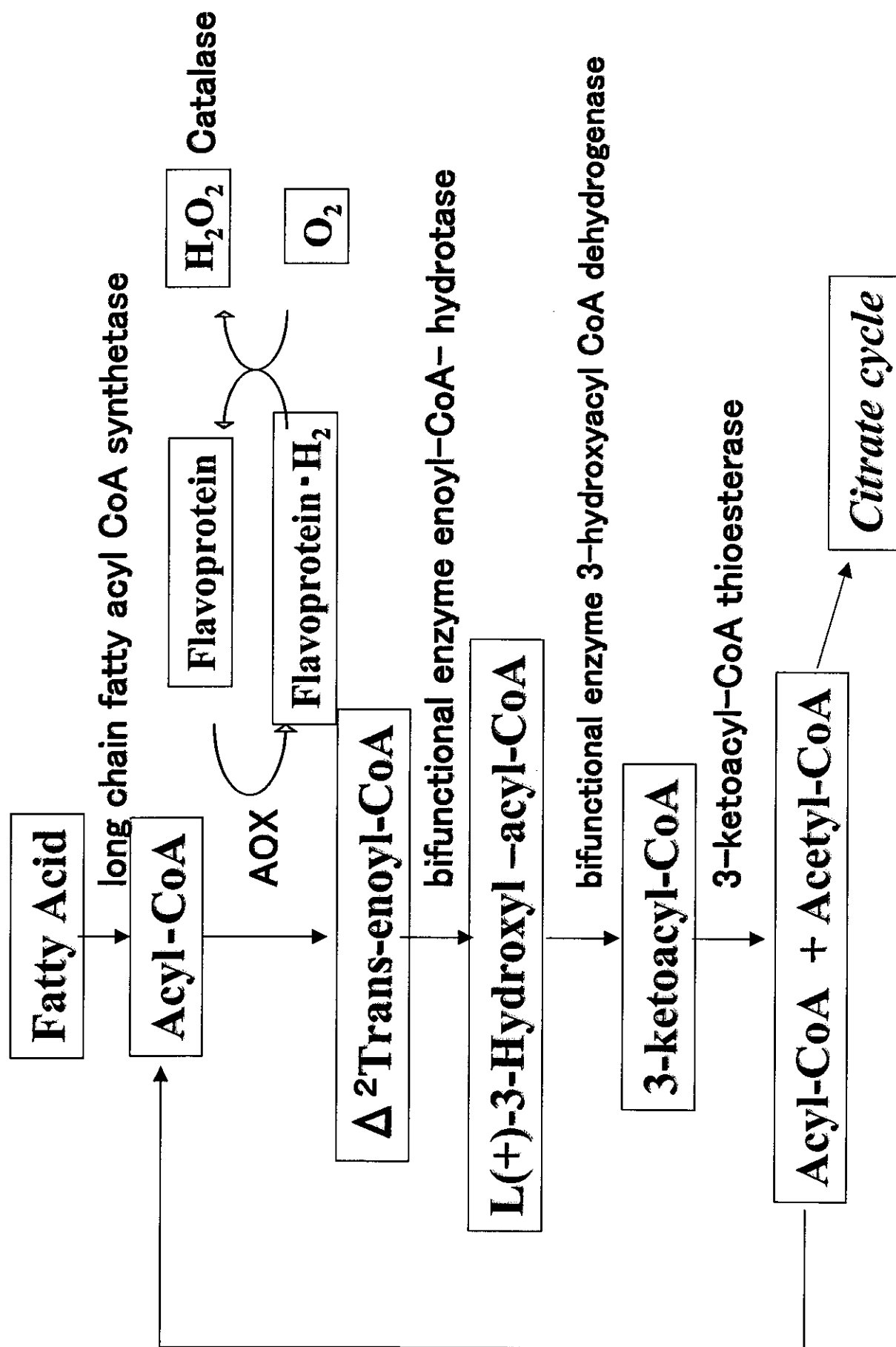
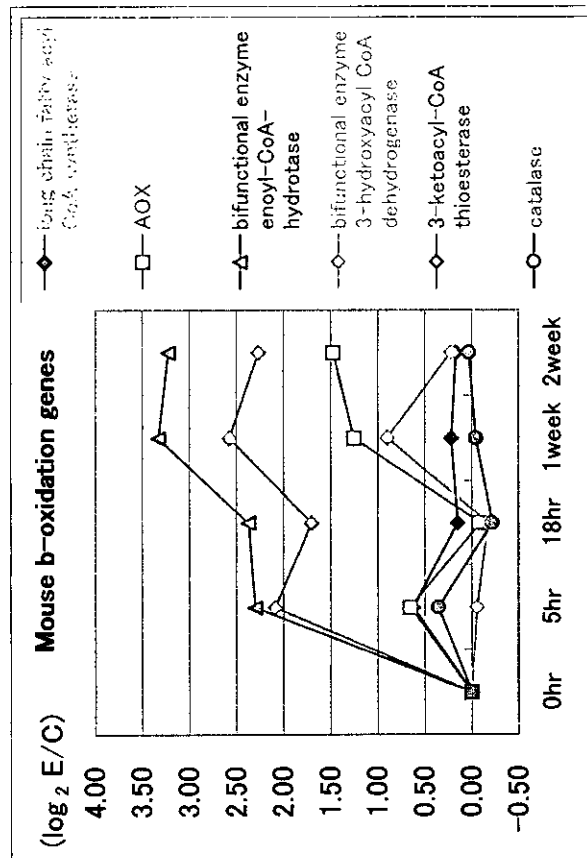


図6 β 酸化関連遺伝子

Mouse	0hr	5hr	18hr	1week	2week
long chain fatty acyl CoA synthetase	0.00	0.62	0.15	0.21	0.17
AOX	0.00	0.66	-0.10	1.25	1.47
bifunctional enzyme enoyl-CoA-	0.00	2.30	2.37	3.32	3.22
bifunctional enzyme 3-hydroxyacyl CoA	0.00	-0.06	-0.17	0.90	0.22
dehydrogenase					
3-ketoacyl-CoA thioesterase	0.00	2.09	1.70	2.57	2.27
catalase	0.00	0.36	-0.22	-0.05	0.03



Rat	0hr	5hr	18hr	1week	2week
long chain fatty acyl CoA synthetase	0.00	-0.36	0.05	0.16	0.49
AOX	0.00	-0.47	0.15	0.18	-0.20
bifunctional enzyme enoyl-CoA-	0.00	-0.16	0.34	0.88	1.59
bifunctional enzyme 3-hydroxyacyl CoA	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
dehydrogenase					
3-ketoacyl-CoA thioesterase	0.00	#NUM!	#NUM!	#NUM!	#NUM!
catalase	0.00	-0.11	-0.68	0.29	0.33

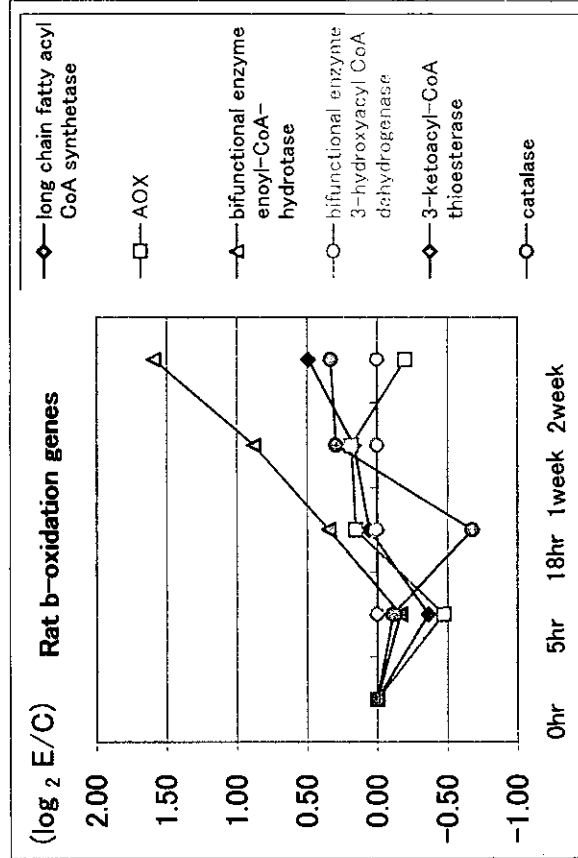
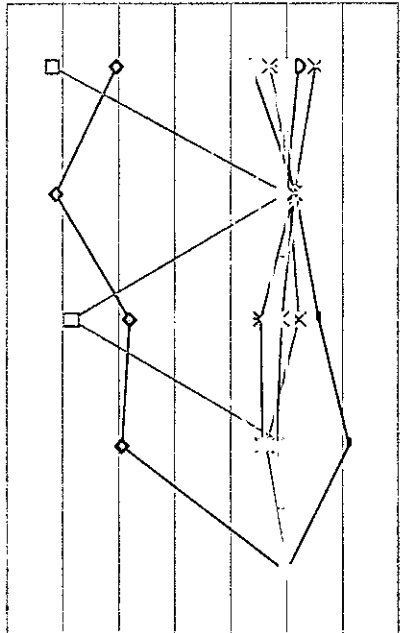


图7 Oxidative stress 遺伝子

Mouse	0hr	5hr	18hr	1week	2week
Cyp4a10	0.00	2.94	2.80	4.11	3.04
Cyp4a14	0.00	#VALUE!	3.83	#VALUE!	4.18
AOX	0.00	0.66	-0.10	1.25	1.47
catalase	0.00	0.36	-0.22	-0.05	0.03
GP4	0.00	0.43	0.46	-0.14	0.30
NFkB1	0.00	#VALUE!	#VALUE!	#VALUE!	-0.22
IL-1b	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
IL-6	0.00	-1.12	-0.58	-0.17	0.63
TNFa	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Secretin	0.00	#VALUE!	0.33	0.12	0.00
AP-1 B1	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
junB	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Jun-D	0.00	0.18	0.08	-0.15	-0.52
Cu-Zn SOD	0.00	0.18	0.25	-0.28	0.35
MnSOD	0.00	0.40	0.17	0.51	0.57
MT2	0.00	0.43	2.08	-0.32	-0.64

Mouse po oxidative stress genes

(log 2 E/C)

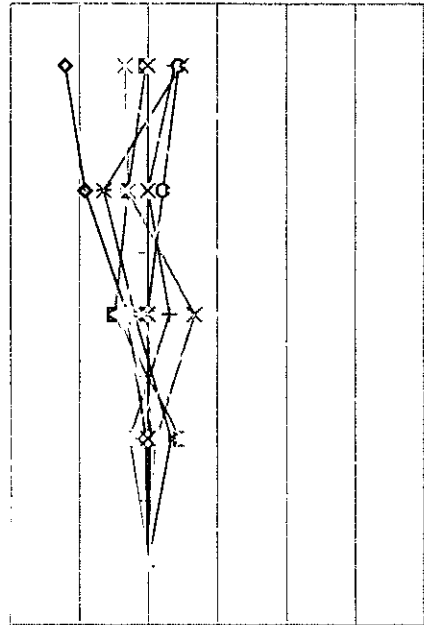


—◇— Cyp4a10
—□— Cyp4a14
AOX
—×— catalase
—*— GP4
—○— NFkB1
—+— IL-1b
—+— IL-6
—+— TNFa
Secretin
AP-1 B1
junB
—×— Jun-D
Cu-Zn SOD
MnSOD

Rat	0hr	5hr	18hr	1week	2week
Cyp4a1	0.00	0.03	0.30	0.91	1.20
Cyp4a3	0.00	-0.47	0.48	0.28	0.02
AOX	0.00	-0.47	0.15	0.18	-0.20
catalase	0.00	-0.11	-0.68	0.29	0.33
GPX	0.00	-0.33	0.19	0.63	-0.49
NFkB	0.00	-0.03	0.00	-0.22	-0.45
IL-1	0.00	0.27	-0.31	#VALUE!	-0.39
IL-6	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
TNFa	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
secretin	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
AP-1	0.00	-0.18	0.32	0.02	-0.08
pJunB	0.00	-0.13	0.43	-0.40	-1.41
jun-D	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Cu-ZnSOD	0.00	-0.52	0.09	0.33	0.30
MnSOD	0.00	0.30	-0.89	-0.67	0.59
MT2	0.00	-3.71	-1.46	-0.56	-0.61

Rat po Oxidative stress genes

(log 2 E/C)



—◇— Cyp4a1
—□— Cyp4a3
AOX
—×— catalase
—*— GPX
—○— NFkB
—+— IL-1
—+— IL-6
—+— TNFa
secretin
AP-1
pJunB
—×— jun-D
Cu-ZnSOD
MnSOD
MT2

表7A

経口投与 マウス 曝露後5時間で有意差を示した遺伝子リスト

Affymetrix No	GI No	Gene name	E/C 5hr	E/C 18hr	E/C 1w	E/C 2w
103896_f_at	X81579	M.musculus mRNA for insulin-like growth factor binding protein-1.	11.96	0.98	1.14	1.11
160101_at	X56824	M.musculus gene for haem oxygenase (exon 1).	8.20	1.22	0.92	0.92
94835_f_at	M28739	beta-tubulin; Mouse beta-tubulin gene M-beta-2, 3' end.	7.16	1.92	1.79	1.08
160564_at	X81627	M.musculus 24p3 gene.	7.16	0.73	0.92	#VALUE!
97523_i_at	X02578	pancreatic alpha-amylase isozyme (aa 1-508); Mouse non-allelic mRNA for pancreatic alpha-amylase isozyme (pCEPa12).	4.22	2.93	#VALUE!	#VALUE!
101043_f_at	AE000664	TCR beta locus from bases 250554 to 501917 (section 2 of 3) of the complete sequence	4.04	2.41	#VALUE!	#VALUE!
96806_at	AI843802	UI-M-AN1-afc-e-12-0-UI.s1 NIH_BMAP_MBG_N Mus musculus cDNA clone UI-M-AN1-afc-e-12-0-UI 3', mRNA sequence.	4.02	1.48	1.38	1.38
100333_at	M13521	serum amyloid A-1; Murine serum amyloid A-1 (SAA-1) gene.	3.73	1.05	0.62	0.31
102712_at	X03505	Mouse gene exon 2 for serum amyloid A (SAA) 3 protein.	2.98	0.84	#VALUE!	0.21
101995_at	U40930	similar to D. melanogaster Ref(2)Pp protein; Mus musculus oxidative stress-induced protein mRNA, complete cds.	2.92	1.86	1.58	0.91
93013_at	AF077861	3' region; Mus musculus helix-loop-helix protein Id2 gene, 3' region.	2.80	0.66	0.64	0.98
160421_r_at	AA590358	vn58e07.r1 Barstead mouse proximal colon MPLRB6 Mus musculus cDNA clone IMAGE:1025412 5', mRNA sequence.	2.67	2.29	#VALUE!	#VALUE!
100708_at	X13605	Histone H3.3 (AA 1 - 136); Murine mRNA for replacement variant histone H3.3.	2.59	1.15	1.51	0.91
97524_f_at	X02578	pancreatic alpha-amylase isozyme (aa 1-508); Mouse non-allelic mRNA for pancreatic alpha-amylase isozyme (pCEPa12).	2.45	3.33	#VALUE!	#VALUE!
94489_at	U84411	Mus musculus protein tyrosine phosphatase (PRL-1) mRNA, complete cds.	2.32	1.16	1.35	0.71
93310_at	AI836423	UI-M-A10-aak-b-03-0-UI.s1 NIH_BMAP_MBS Mus musculus cDNA clone UI-M-A10-aak-b-03-0-UI 3', mRNA sequence.	2.32	1.42	1.18	0.74
94440_at	AI173533	ud67g09.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1451008 3', mRNA sequence.	1.97	0.85	1.36	0.83
92291_f_at	M29008	complement factor H-related protein; Mouse complement factor H-related protein mRNA, complete cds, clone 13G1.	1.92	0.91	0.64	0.47
93277_at	X53584	HSP60 protein (555 AA); Mouse mRNA for HSP60 protein (clones 3T3-7, -9, and -M1).	1.90	1.22	1.18	0.54
94766_at	M17878	elongation factor Tu; Mouse eEF-Tu gene encoding elongation factor Tu, 5' end.	1.86	0.94	0.56	1.53
160139_at	AI848798	UI-M-AJ1-ahg-e-08-0-UI.s1 NIH_BMAP_MOB_N Mus musculus cDNA clone UI-M-AJ1-ahg-e-08-0-UI 3', mRNA sequence.	1.83	1.35	1.17	0.87
98505_i_at	D16333	Mouse mRNA for coproporphyrinogen oxidase, complete cds.	1.78	1.48	1.90	1.12
94042_f_at	AI843937	UI-M-AP1-agh-b-10-0-UI.s1 NIH_BMAP_MST_N Mus musculus cDNA clone UI-M-AP1-agh-b-10-0-UI 3', mRNA sequence.	1.54	1.73	0.71	1.15
92800_i_at	AI836694	UI-M-AJ0-aax-a-08-0-UI.s1 NIH_BMAP_MOB Mus musculus cDNA clone UI-M-AJ0-aax-a-08-0-UI 3', mRNA sequence.	1.46	1.00	0.62	0.63
100436_at	M27008	Mouse alpha-1 acid glycoprotein (Acp-1B) mRNA, complete cds.	1.37	0.96	0.73	0.48
94794_at	X52561	Mouse gene for ferritin H subunit.	1.27	1.39	0.99	0.88
102599_at	X06407	21 kd polypeptide; Mouse mRNA for 21 kd polypeptide under translational control.	0.82	1.21	0.88	1.10
161626_f_at	AV028204	AV028204 Mus musculus adult C57BL/6J liver Mus musculus cDNA clone 1300018L03, mRNA	0.81	1.10	0.88	1.13

97216_at	M93264	Mus musculus alpha-2-macroglobulin mRNA, complete cds.		0.80	0.98	0.90	1.11
101985_at	J04766	Mouse plasminogen mRNA, complete cds.		0.79	0.69	1.05	0.85
99862_at	AF025821	fetuin; insulin receptor tyrosine kinase inhibitor/binding protein for hydroxylapatite; similar to fetuin homolog encoded by GenBank Accession Number S96534; Mus musculus alpha 2-Heremans-Schmid-glycoprotein (Ahsg) gene, exons 2, 3, and 4, and partial cds.		0.78	0.99	1.04	0.83
93014_at	Y17223	Mus musculus mRNA for F1F0-ATP synthase, g subunit.		0.77	1.10	0.97	0.94
101287_s_at	M24264	testosterone 16-alpha-hydroxylase (CC); Mouse testosterone 16-alpha-hydroxylase (CC) gene, complete cds.		0.76	1.27	0.59	1.20
98588_at	Z11774	M. musculus mRNA for fumarylacetoacetase.		0.76	0.92	1.13	1.03
94057_g_at	M21285	stearoyl-CoA desaturase; Mouse stearoyl-CoA desaturase gene, exon 6.		0.74	0.83	0.73	1.03
96326_at	AI255353	ui92h11.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1889925 3', mRNA sequence.		0.74	1.22	1.09	1.34
97055_s_at	AI118194	ue34e03.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1482268 3' similar to gb:X67951 PROLIFERATION-ASSOCIATED PROTEIN PAG (HUMAN); gb:D21252 Mouse mRNA for OSF-3, complete cds (MOUSE);, mRNA sequence.		0.74	1.16	0.97	1.09
101013_at	U52823	Mus musculus ornithine decarboxylase antizyme gene, complete cds.		0.73	1.30	0.83	0.94
104726_at	AA670737	vp87c11.r1 Stratagene mouse diaphragm (#937303) Mus musculus cDNA clone IMAGE:1091732 5' similar to gb:U08198 rna1 COMPLEMENT C8 GAMMA CHAIN PRECURSOR (HUMAN);, mRNA		0.73	0.90	0.90	0.82
93045_at	L28836	Mus musculus peroxisome membrane protein (PMP70) gene, complete cds.		0.72	0.77	1.33	1.19
94075_at	Y14660	Mus musculus mRNA for fatty acid binding protein (L-FABP).		0.72	0.66	1.83	0.94
160088_at	U90535	Mus musculus flavin-containing monooxygenase 5 (FMO5) mRNA, complete cds.		0.71	0.90	1.46	1.35
101255_at	X51703	Mouse mRNA for ubiquitin.		0.71	1.07	0.98	1.10
97758_at	AB023564	Mus musculus gene for type I peroxiredoxin, exon 6 and complete cds.		0.71	1.02	0.80	0.87
160194_at	U18992	Mus musculus glutaryl-CoA dehydrogenase mRNA, complete cds.		0.70	0.83	1.57	0.75
96267_at	AI846127	UI-M-AN1-afj-b-05-0-UI.s2 NIH_BMAP_MBG_N Mus musculus cDNA clone UI-M-AN1-afj-b-05-0-UI 3', mRNA sequence.		0.70	0.88	1.72	0.97
95064_at	AI849271	UI-M-AJ1-agz-g-06-0-UI.s1 NIH_BMAP_MOB_N Mus musculus cDNA clone UI-M-AJ1-agz-g-06-0-UI 3', mRNA sequence.		0.68	1.01	0.89	0.97
99197_at	M55413	Mus musculus vitamin D-binding protein (GC) mRNA, partial cds.		0.67	1.05	0.82	1.10
102096_f_at	AI255271	ui89h12.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1889639 3' similar to gb:M28649 Mouse major urinary protein mRNA, complete cds (MOUSE);, mRNA sequence.		0.67	0.83	0.79	0.62
95350_at	D00073	Mus musculus gene for prealbumin, complete cds.		0.65	0.91	0.78	0.83
93109_f_at	M75718	Mus musculus alpha-1 protease inhibitor 4 (alpha-1 PI-4) mRNA, complete cds.		0.65	1.20	0.79	0.97
101574_f_at	M75717	Mus musculus alpha-1 protease inhibitor 5 (alpha-1 PI-5) mRNA, complete cds.		0.62	1.13	0.79	0.86
160306_at	X95279	M. musculus spot14 gene.		0.61	0.56	1.18	1.30
93500_at	M63245	Mus musculus amino levulinatase synthase (ALAS-H) mRNA, 3' end.		0.56	1.34	1.97	0.97
102291_at	M23109	coagulation factor IX precursor; Mouse coagulation factor IX mRNA, 3' end.		0.56	0.31	0.84	0.64
100329_at	X00945	protease inhibitor; Mouse alpha1-protease inhibitor gene fragment (alpha 1-PI; alpha1-antitrypsin).		0.55	1.23	0.78	1.32
99269_g_at	AI194855	ui57f04.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1886527 3' similar to SW:1230_RAT_P21643_TRYPTOPHAN_2,3-DIOXYGENASE ;, mRNA sequence.		0.54	1.10	0.86	1.02
101572_f_at	M75721	Mus musculus alpha-1 protease inhibitor 1 (alpha-1 PI-1) mRNA, complete cds.		0.54	1.15	0.85	1.14
93837_at	AI786089	uj58h09.y1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1924193 5' similar to gb:K02566 KININOGEN, LMW PRECURSOR (HUMAN);, mRNA sequence.		0.52	1.45	0.45	0.96

102998_at	X04283	cytochrome P2-450 (aa 1-513); Mouse mRNA for cytochrome P2-450.	0.50	0.97	1.10	1.56
100437_g_at	M27008	Mouse alpha-1 acid glycoprotein (Agp-1B) mRNA, complete cds.	0.49	1.24	0.83	1.11
94324_f_at	U49878	HMG CoA lyase; Mus musculus 3-hydroxy-3-methylglutaryl-CoA lyase (Hmgcl) gene, exon 9 and complete cds.	0.49	0.62	1.33	1.03
101910_f_at	M16359	major urinary protein III; Mouse major urinary protein III (MUP III) mRNA, partial cds.	0.43	1.49	1.01	1.11
101576_f_at	M25529	alpha-1 antitrypsin precursor; Mouse alpha-1-antitrypsin (Aat) mRNA, complete cds.	0.39	1.69	0.71	0.94
161563_r_at	AV266785	AV266785 RIKEN full-length enriched, adult male testis (DH10B) Mus musculus cDNA clone 4930520I22 3', mRNA sequence.	0.37	1.01	0.88	0.61
99583_at	X53451	glutathione S-transferase II (AA 1-210); Mouse mRNA for glutathione S-transferase II (EC 2.5.1.18).	0.29	0.62	1.61	1.31
93086_at	M18237	Ig kappa chain V-region; Mouse Ig kappa chain V-region mRNA, partial cds, clone 3H9.	0.27	1.03	1.21	0.86
101565_f_at	M75720	Mus musculus alpha-1 protease inhibitor 3 (alpha-1 PI-3) mRNA, complete cds.	0.20	1.14	0.58	1.23

表7B
経口投与 マウス 曝露後18時間で有意差を示した遺伝子リスト

Affymetrix No	GI No	Gene name	E/C 5hr #VALUE!	E/C 18hr	E/C 1w #VALUE!	E/C 2w
101103_at	Y11638	CYP4A14 gene, exon 1-4		14.23		18.08
101909_f_at	M16357	major urinary protein III; Mouse major urinary protein III (MUP III) mRNA, partial cds.	2.08	10.80	3.82	2.07
92600_f_at	AB018421	Mus musculus CYP4A10 mRNA for cytochrome P-450, complete cds.	7.66	6.96	17.32	8.20
93536_at	D00466	Mus musculus gene for apolipoprotein, exons 1,2,3,4, complete cds.	0.42	5.90	0.20	3.41
101561_at	K02236	metallothionein II; Mouse metallothionein II (MT-II) gene.	1.35	4.24	0.80	0.64
99133_at	X14309	4F2 heavy chain (AA 1-526); Murine mRNA for 4F2 antigen heavy chain.	1.67	4.06	1.80	1.70
102847_s_at	M19319	testosterone 15-alpha-hydroxylase; Mouse testosterone 15-alpha-hydroxylase mRNA type II, complete cds.	0.81	3.87	4.69	1.98
100078_at	M64248	putative; Mouse apolipoprotein A-IV (apoA-IV) mRNA, complete cds.	1.58	3.72	0.85	0.87
97682_r_at	J03953	glutathione transferase (EC 2.5.1.18); Mouse, glutathione transferase GT9.3 mRNA, 3' end.	1.30	3.32	3.02	1.50
92539_at	M16465	calpactin I light chain; Mouse calpactin I light chain (p11) mRNA, complete cds.	1.96	3.32	1.38	1.85
160462_f_at	AW050256	UI-M-BH1-ans-b-12-0-UI.s1 NIH_BMAP_M_S2 Mus musculus cDNA clone UI-M-BH1-ans-b-12-0-UI 3', mRNA sequence.	3.62	3.32	1.82	2.50
99335_at	J05277	hexokinase (EC 2.7.1.1); Mouse hexokinase mRNA, complete cds.	0.87	3.02	0.71	0.89
94270_at	M22832	Mus musculus cytochrome (endoB) gene, complete cds.	2.78	2.83	2.48	1.53
100581_at	U59807	also known as stefin B; Mus musculus cystatin B (Stfb) gene, complete cds.	1.19	2.72	1.11	1.15
94841_at	AW048997	UI-M-BH1-amp-c-10-0-UI.s1 NIH_BMAP_M_S2 Mus musculus cDNA clone UI-M-BH1-amp-c-10-0-UI 3', mRNA sequence.	2.02	2.71	0.95	1.10
101009_at	X15662	cytochrome endo A; Mouse gene for cytochrome endo A (no 8) 5' end.	1.47	2.63	2.32	1.99
102322_at	AF061017	UDPGDH; NAD+-linked oxidoreductase; Mus musculus UDP-glucose dehydrogenase (Ugdh) mRNA, complete cds.	1.64	2.62	1.66	1.23
96632_at	AB025049	Mus musculus mRNA for Sid393p, complete cds.	1.45	2.61	3.42	0.98
94302_at	AF013099	Mus musculus multiubiquitin-chain-binding protein (Mcb1) mRNA, complete cds.	1.57	2.59	1.92	1.37
96298_f_at	AF020185	cytoplasmic dynein light chain; Mus musculus protein inhibitor of nitric oxide synthase (PIN) mRNA, complete cds.	1.38	2.51	1.04	0.85
94025_at	AW045339	UI-M-BH1-ako-a-09-0-UI.s1 NIH_BMAP_M_S2 Mus musculus cDNA clone UI-M-BH1-ako-a-09-0-UI 3', mRNA sequence.	1.05	2.39	1.48	1.04
101254_at	L32751	Mouse (clone M1) GTPase (Ran) mRNA, complete cds.	1.11	2.32	1.35	1.23
94014_at	AA760073	vv69b08.r1 Stratagene mouse skin (#937313) Mus musculus cDNA clone IMAGE:1227639 5', mRNA sequence.	1.52	2.31	1.00	2.00
101741_at	AB003305	processed gene; Mus musculus psm5-ps pseudogene, partial sequence.	2.11	2.31	1.01	0.49
103006_at	AB012276	Mus musculus mRNA for ATFx, partial cds.	1.10	2.25	1.34	2.24
102821_s_at	L32752	Mouse (clone M2) GTPase (Ran) mRNA, complete cds.	1.14	2.24	1.55	1.15
97681_f_at	J03953	glutathione transferase (EC 2.5.1.18); Mouse, glutathione transferase GT9.3 mRNA, 3' end.	1.15	2.22	2.55	1.67
97268_l_at	A1848699	UI-M-AH1-agv-g-05-0-UI.s1 NIH_BMAP_MCE_N Mus musculus cDNA clone UI-M-AH1-agv-g-05-0-UI 3', mRNA sequence.	1.27	2.21	0.64	0.97
97680_at	M65237	Mouse murinoglobulin (MUG3) mRNA, last 2 exons.	1.00	2.18	0.92	1.68

95517_i_at	A1846338	UI-M-AN1-afa-c-01-0-UI.s1 NIH_BMAP_MBG_N Mus musculus cDNA clone UI-M-AN1-afa-c-01-0-UI 3', mRNA sequence.	0.92	2.14	2.52	1.47
95557_f_at	U65636	Mus musculus beta proteasome subunit (Lmp3) mRNA, complete cds.	1.28	2.08	1.19	1.43
101984_at	AF004591	murine ATX1 homolog, similar to yeast Atx1 and human HAH1; Mus musculus copper transport protein Atox1 (ATOX1) mRNA, complete cds.	0.86	2.00	1.06	1.54
96092_at	M96827	C57BL/6J ob/ob haptoglobin mRNA, complete cds.	0.48	1.94	0.67	1.09
94835_f_at	M28739	beta-tubulin; Mouse beta-tubulin gene M-beta-2, 3' end.	7.16	1.92	1.79	1.08
101587_at	U89491	Allele: b; Mus musculus microsomal epoxide hydrolase (Eph1) mRNA, allele b, complete cds.	0.90	1.90	3.03	1.50
98564_f_at	U67770	ribosomal protein S26; Mus musculus ribosomal protein S26 (RPS26) mRNA, complete cds.	1.20	1.89	0.80	0.78
92553_at	AB025408	Mus musculus mRNA for sid478p, complete cds.	1.16	1.87	1.49	1.29
101995_at	U40930	similar to D. melanogaster Ref(2)Pp protein; Mus musculus oxidative stress-induced protein mRNA, complete cds.	2.92	1.86	1.58	0.91
98759_f_at	M28727	alpha-tubulin; Mouse alpha-tubulin gene M-alpha-2, 3' end.	1.26	1.83	1.60	1.23
93730_at	AF085809	synaptic vesicle associated protein; Mus musculus synapsin Ib (SynI) mRNA, complete cds.	0.69	1.79	0.64	0.75
96122_at	AW049373	UI-M-BH1-ane-b-11-0-UI.s1 NIH_BMAP_M_S2 Mus musculus cDNA clone UI-M-BH1-ane-b-11-0-UI 3', mRNA sequence.	0.79	1.76	1.19	1.24
99581_at	U60001	PKC ζ ; similar to Bos taurus protein kinase C inhibitor 1, Swiss-Prot Accession Number P16436; HIT protein family member; Mus musculus protein kinase C inhibitor (mPKCI) mRNA, complete cds.	1.00	1.75	0.99	1.43
94042_f_at	A1843937	UI-M-AP1-agh-b-10-0-UI.s1 NIH_BMAP_MST_N Mus musculus cDNA clone UI-M-AP1-agh-b-10-0-UI 3', mRNA sequence.	1.54	1.73	0.71	1.15
102109_at	U28917	member of L13E family of ribosomal proteins; similar to the 60S ribosomal protein L13 from rat, Swiss-Prot Accession Number P41123, human, Swiss-Prot Accession Number P26373, and chicken, Swiss-Prot Accession Number P41125; Mus musculus 60S ribosomal protein (A52) mRNA, complete cds.	1.14	1.70	0.55	1.29
101576_f_at	M25529	alpha-1 antitrypsin precursor; Mouse alpha-1-antitrypsin (Aat) mRNA, complete cds.	0.39	1.69	0.71	0.94
94210_at	AW121333	UI-M-BH2.2-aom-b-04-0-UI.s1 NIH_BMAP_M_S3.2 Mus musculus cDNA clone UI-M-BH2.2-aom-b-04-0-UI 3', mRNA sequence.	0.98	1.69	1.17	0.83
101531_at	A1527354	uj51b11.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1923453 3' similar to gb:X02747 FRUCTOSE-BISPHOSPHATE ALDOLASE B (HUMAN);, mRNA sequence.	1.15	1.68	1.85	1.05
96699_at	X53476	HMG-14 (AA 1-96); Mouse mRNA for non-histone chromosomal protein HMG-14.	0.85	1.61	1.89	1.01
101963_at	X06086	MEP precursor (AA -18 to 316); Mouse mRNA for major excreted protein (MEP).	1.51	1.57	1.58	0.72
93754_at	AF030343	peroxisomal/mitochondrial diacylglycerol-CoA isomerase; Mus musculus peroxisomal/mitochondrial diacylglycerol-CoA isomerase ECH1p (Ech1) mRNA, complete cds.	1.16	1.56	1.52	1.42
99566_at	L31777	Mus musculus triosephosphate isomerase (tpi) gene, partial cds.	0.98	1.56	1.73	1.14
AFFX-b-Act	M12481	cytoplasmic beta-actin; Mouse cytoplasmic beta-actin mRNA.	0.92	1.55	1.08	0.62
99849_at	C85523	C85523 Mouse fertilized one-cell-embryo cDNA Mus musculus cDNA clone J0209F01 3', mRNA sequence.	0.94	1.54	1.69	1.23
96575_at	U67771	Mus musculus ribosomal protein L8 (RPL8) mRNA, complete cds.	1.12	1.50	0.80	0.94
101910_f_at	M16359	major urinary protein III; Mouse major urinary protein III (MUP III) mRNA, partial cds.	0.43	1.49	1.01	1.11
103465_f_at	U60438	Mus musculus serum amyloid A protein isoform 2 mRNA, complete cds.	0.89	1.48	0.62	0.13
101638_s_at	D26137	Mouse cytochrome P450IIIa mRNA, complete cds.	0.86	1.48	0.99	1.44

96358_at	A1837403	UI-M-AP0-abm-e-02-0-UI.s1 NIH_BMAP_MST Mus musculus cDNA clone UI-M-AP0-abm-e-02-0-UI 3', mRNA sequence.	1.01	1.47	0.85	0.97
101573_f_at	AB020237	Mus musculus gene for ribosomal protein L27A, complete cds.	1.15	1.46	0.86	0.95
96888_at	A1839814	UI-M-AN0-acq-b-07-0-UI.s1 NIH_BMAP_MBG Mus musculus cDNA clone UI-M-AN0-acq-b-07-0-UI 3', mRNA sequence.	1.12	1.44	1.21	1.18
92577_f_at	AW047116	UI-M-BH1-alu-a-05-0-UI.s1 NIH_BMAP_M.S2 Mus musculus cDNA clone UI-M-BH1-alu-a-05-0-UI 3', mRNA sequence.	1.09	1.44	0.93	1.03
97647_at	M11408	Mouse S16 ribosomal protein gene, complete cds.	0.99	1.41	0.73	0.91
101016_at	D87898	Mus musculus mRNA for ARF1, complete cds.	0.94	1.41	1.74	1.05
101577_at	Z54209	M.musculus rpS6 gene.	0.92	1.40	0.74	1.05
94794_at	X52561	Mouse gene for ferritin H subunit.	1.27	1.39	0.99	0.88
98342_at	M93980	Mouse 24.6 kda protein mRNA, complete cds.	1.03	1.39	0.71	1.08
101543_f_at	M13441	alpha-tubulin isotype M-alpha-6; Mouse alpha-tubulin isotype M-alpha-6 mRNA, complete cds.	1.37	1.37	1.67	1.11
96290_f_at	U93863	Rpl21; Mus musculus ribosomal protein L21 mRNA, complete cds.	1.02	1.36	0.90	0.91
95723_r_at	A1841464	UI-M-AH0-acy-a-04-0-UI.s1 NIH_BMAP_MCE Mus musculus cDNA clone UI-M-AH0-acy-a-04-0-UI 3', mRNA sequence.	0.85	1.32	0.49	1.12
AFFX-Gapdh	M32599	glyceraldehyde-3-phosphate dehydrogenase; Mouse glyceraldehyde-3-phosphate dehydrogenase mRNA, complete cds.	0.95	1.31	1.21	1.05
98119_at	K02928	Mouse ribosomal protein L30 gene, complete cds.	1.05	1.30	0.84	0.90
101566_f_at	M17818	urinary protein; Mouse major urinary protein group 1 gene, 5' end, clone BL6-3.	0.91	1.29	1.04	0.95
99571_at	AW012588	ul69g10.x1 Sugano mouse kidney mkia Mus musculus cDNA clone IMAGE:2135874 3' similar to gb:X14813 3-KETOACYL-COA THIOLASE PEROXISOMAL PRECURSOR (HUMAN);, mRNA sequence.	1.02	1.29	1.10	1.32
102098_at	A1415065	mb90h11.x1 Soares mouse p3NMF19.5 Mus musculus cDNA clone IMAGE:336741 3' similar to gb:M15661 60S RIBOSOMAL PROTEIN L44 (HUMAN);, mRNA sequence.	0.96	1.28	0.87	1.06
101287_s_at	M24264	testosterone 16-alpha-hydroxylase (CC); Mouse testosterone 16-alpha-hydroxylase (CC) gene, complete cds.	0.76	1.27	0.59	1.20
AFFX-b-Actin	M12481	cytoplasmic beta-actin; Mouse cytoplasmic beta-actin mRNA.	0.80	1.26	0.85	0.93
101213_at	X15267	PO protein; Mouse mRNA for acidic ribosomal phosphoprotein PO.	0.90	1.25	0.93	1.00
102599_at	X06407	21 kd polypeptide; Mouse mRNA for 21 kd polypeptide under translational control.	0.82	1.21	0.88	1.10
96024_at	L32836	copper binding protein; Mus musculus (clone C7/B9) S-adenosyl homocysteine hydrolase (ahcy) mRNA, complete cds.	0.91	0.70	1.06	0.87
101985_at	J04766	Mouse plasminogen mRNA, complete cds.	0.79	0.69	1.05	0.85
94075_at	Y14660	Mus musculus mRNA for fatty acid binding protein (L-FABP).	0.72	0.66	1.83	0.94
99583_at	X53451	glutathione S-transferase II (AA 1-210); Mouse mRNA for glutathione S-transferase II (EC	0.29	0.62	1.61	1.31
160375_at	AJ006474	Mus musculus ca3 gene 5'UTR and exon 1.	0.84	0.61	0.54	0.79
99083_at	AF047542	drug metabolizing enzyme; CYP2C37; Mus musculus cytochrome P450 (Cyp2c37) mRNA, complete cds.	0.89	0.60	1.33	0.60
95407_at	X51942	phenylalanine hydroxylase (AA 1-453); Mouse mRNA for phenylalanine hydroxylase (EC	0.90	0.59	1.00	0.81
103033_at	X06454	Slp(w7); Mouse mRNA for sex-limited protein Slp(w7) alpha-gamma chain.	0.99	0.57	0.84	0.65

103407_at	AA895838	vy34g05.r1 Stratagene mouse lung 937302 Mus musculus cDNA clone IMAGE:1297400 5' similar to gb:M73700 LACTOTRANSFERRIN PRECURSOR (HUMAN); gb:J03298 Mouse uterine lactotransferrin mRNA (MOUSE);, mRNA sequence.	1.10	0.50	0.87	0.61
101928_at	Z36774	M.musculus mRNA for alpha-2 antipiasmin.	0.88	0.48	1.08	0.68
93269_at	A1848952	UI-M-AJ1-ahd-a-06-0-UI.s1 NIH_BMAP_MOB_N Mus musculus cDNA clone UI-M-AJ1-ahd-a-06-0-UI 3', mRNA sequence.	0.91	0.47	1.07	0.89
100574_f_at	L09104	putative; Mus musculus glucose phosphate isomerase mRNA, 3' end.	1.00	0.44	1.51	0.98
93068_r_at	U62674	Mus musculus histone H2a.2-615 (H2a-615), and histone H3.2-615 (H3-615) genes, complete cds.	1.29	0.26	1.60	0.86
160611_at	AA212964	mw79c03.r1 Soares mouse NML Mus musculus cDNA clone IMAGE:676900 5', mRNA sequence.	0.78	0.23	0.77	0.88