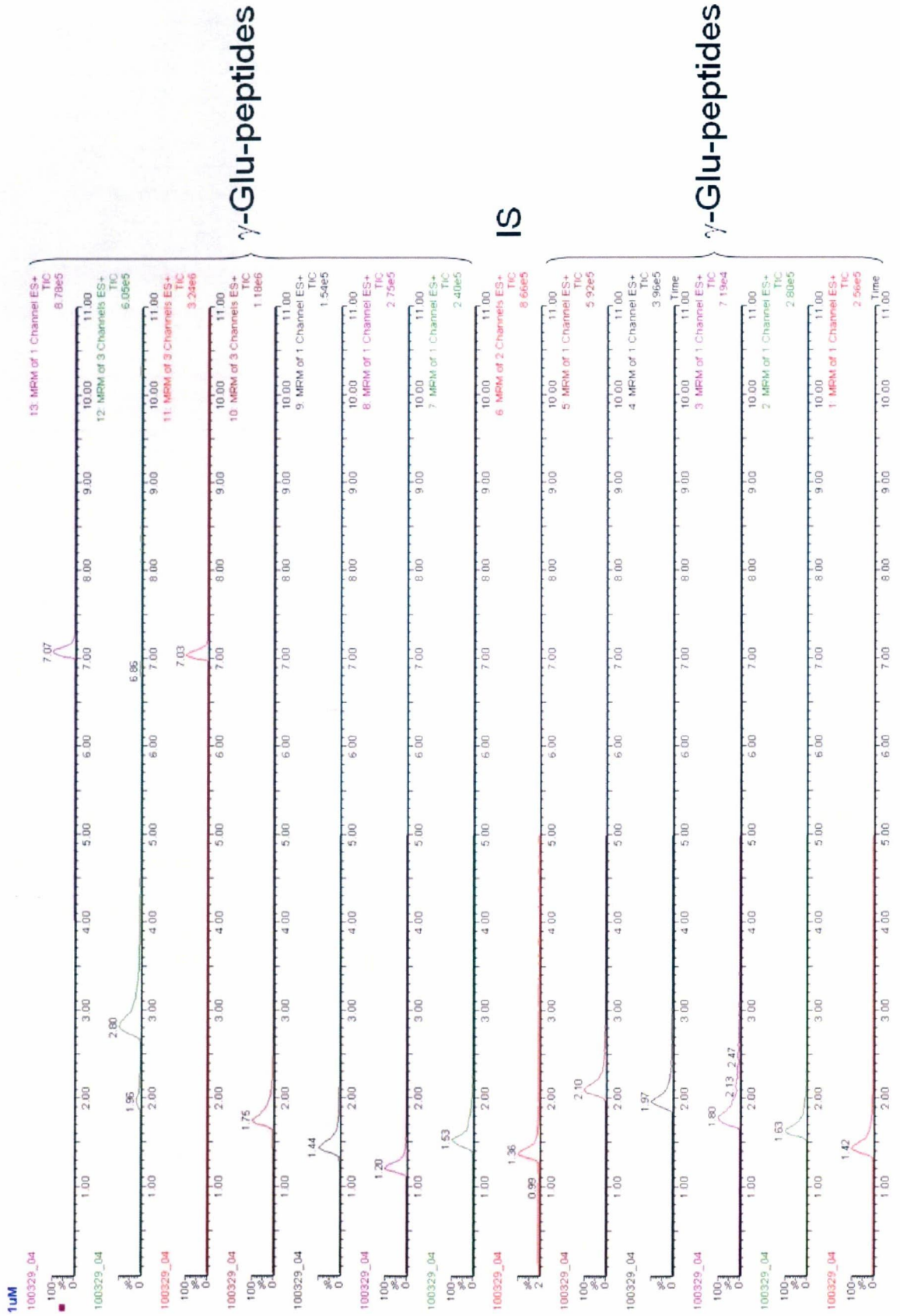


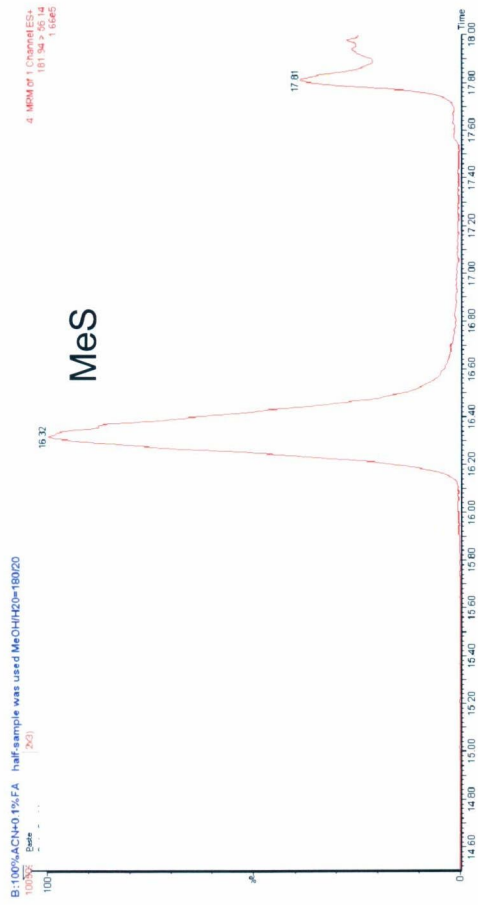
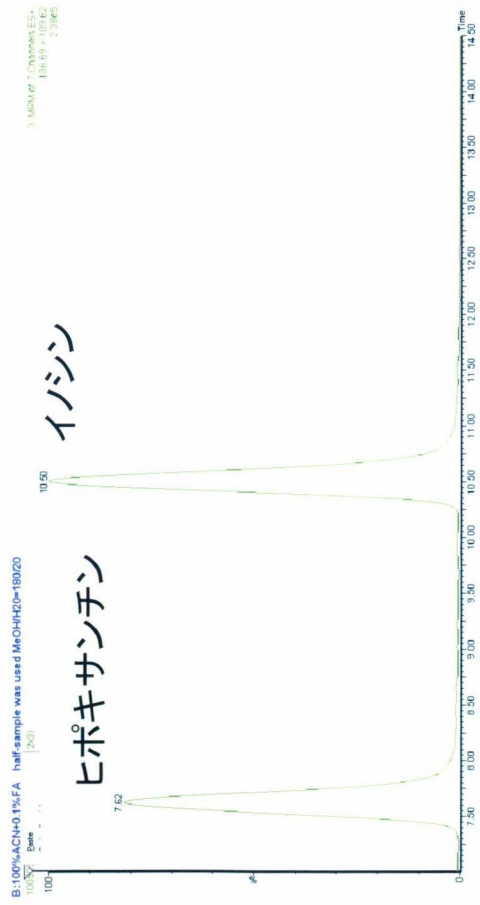
GWASによりP<0.0001で有意であったSNPsの一覧：22遺伝子上の45SNPsが見出された。

SNP ID	dbSNP RS ID	Chromosome	Physical Position	mAF	p-value	p-value	OR	95%CI	Low	High	AA	AB	BB	NoCall	AA	AB	BB	NoCall	Gene	annotation	SNP type
*****	*****	3	192556586	0.174569	0.7048	1.71E-05	3.03	1.80	5.11	5.11	4	4	23	21	0	4	42	138	0	CDS	sSNP
*****	*****	3	192559099	0.174569	0.7048	1.71E-05	3.03	0.20	0.56	0.56	21	23	23	4	0	138	42	4	0	intron	ISNP
*****	*****	4	182315890	0.5	0.0979	3.69E-05	2.68	1.66	4.32	4.32	22	22	22	4	0	43	80	61	0	upstream	gSNP
*****	*****	5	32312053	0.3987069	0.9902	0.0000906	2.46	1.55	3.88	3.88	17	21	21	10	0	23	84	77	0	intron	ISNP
*****	*****	5	89251350	0.3642241	0.4144	4.97E-05	2.54	1.60	4.01	4.01	12	28	28	8	0	21	75	88	0	upstream	gSNP
*****	*****	6	16709060	0.3484848	0.4768	8.16E-05	0.40	0.25	0.62	0.62	10	25	25	12	1	87	82	15	0	intron	ISNP
*****	*****	6	32025519	0.4396552	0.9571	3.98E-05	2.59	1.63	4.12	4.12	19	22	22	7	0	28	88	68	0	intron	ISNP
*****	*****	6	32027557	0.4375	0.9949	1.137E-05	0.33	0.20	0.55	0.55	1	21	21	26	0	44	92	48	0	intron	ISNP
*****	*****	6	54536388	0.2090517	0.5736	7.124E-06	0.33	0.20	0.55	0.55	18	24	24	6	0	127	53	4	0	downstream	gSNP
*****	*****	6	54712451	0.112069	0.2286	4.427E-05	3.35	1.83	6.13	6.13	2	18	18	28	0	0	30	154	0	downstream	gSNP
*****	*****	6	54718848	0.1091703	0.2429	6.784E-05	3.32	1.79	6.15	6.15	2	17	17	28	1	29	153	2	2	downstream	gSNP
*****	*****	6	54723959	0.2270742	0.5199	2.597E-05	0.35	0.22	0.52	0.52	14	28	28	4	2	120	58	163	0	downstream	gSNP
*****	*****	6	124839601	0.3512931	0.3584	9.331E-05	0.41	0.26	0.64	0.64	12	22	22	14	0	91	73	20	0	downstream	gSNP
*****	*****	7	118334001	0.0736607	0.5008	8.299E-05	0.25	0.12	0.52	0.52	33	14	14	1	0	159	17	0	8	downstream	gSNP
*****	*****	8	21593298	0.4783355	0.6341	8.675E-05	0.38	0.24	0.63	0.63	3	22	22	22	1	49	95	40	0	downstream	gSNP
*****	*****	10	82467237	0.0775862	0.4443	4.278E-05	3.95	1.97	7.95	7.95	1	15	15	32	0	1	17	166	0	upstream	gSNP
*****	*****	10	82479892	0.0775862	0.4443	4.278E-05	3.95	1.97	7.95	7.95	1	15	15	32	0	1	17	166	0	downstream	gSNP
*****	*****	10	82480396	0.0779221	0.443	3.027E-05	4.06	2.02	8.16	8.16	1	15	15	32	0	1	17	166	0	downstream	gSNP
*****	*****	10	82483761	0.0775862	0.4443	4.278E-05	3.74	1.88	7.47	7.47	32	15	15	31	1	166	17	166	0	downstream	gSNP
*****	*****	10	82492616	0.0797414	0.5126	7.704E-05	3.14	1.51	0.51	0.51	0	166	17	1	0	17	166	1	0	downstream	gSNP
*****	*****	10	120422475	0.2780172	0.297	5.985E-05	3.65	1.88	7.09	7.09	0	88	74	22	0	88	74	22	0	upstream	gSNP
*****	*****	10	120438560	0.2780172	0.297	5.985E-05	3.65	1.88	7.09	7.09	37	11	11	37	0	22	74	88	0	downstream	gSNP
*****	*****	10	120443158	0.2780172	0.297	5.985E-05	3.65	1.88	7.09	7.09	0	11	11	37	0	22	74	88	0	intron	ISNP
*****	*****	10	120448159	0.1717391	0.1323	4.511E-05	2.93	1.72	4.98	4.98	3	23	23	20	2	1	48	135	0	upstream	gSNP
*****	*****	11	106877684	0.3340517	0.4152	0.0000389	2.58	1.63	4.08	4.08	14	21	21	13	0	13	80	91	0	downstream	gSNP
*****	*****	11	106896233	0.3275862	0.327	5.307E-05	0.39	0.25	0.62	0.62	14	20	20	14	0	92	80	12	0	intron	ISNP
*****	*****	11	106896488	0.3275862	0.327	5.307E-05	0.39	0.25	0.62	0.62	14	20	20	14	0	92	80	12	0	intron	ISNP
*****	*****	11	106897036	0.3275862	0.327	5.307E-05	0.39	0.25	0.62	0.62	14	20	20	14	0	92	80	12	0	intron	ISNP
*****	*****	12	71730857	0.3103448	0.2011	9.143E-05	0.31	0.17	0.57	0.57	0	14	34	0	0	19	92	73	0	downstream	gSNP
*****	*****	12	127448159	0.1717391	0.1323	4.511E-05	2.93	1.72	4.98	4.98	3	23	23	20	2	1	48	135	0	upstream	gSNP
*****	*****	13	107277967	0.1349558	0.1334	5.037E-05	0.32	0.18	0.57	0.57	26	19	19	3	0	142	36	0	6	intron	ISNP
*****	*****	16	56870743	0.3685345	0.1011	9.976E-05	0.35	0.20	0.60	0.60	2	15	15	31	0	26	100	58	0	intron	ISNP
*****	*****	16	56877712	0.3836207	0.2384	7.311E-05	0.35	0.21	0.60	0.60	2	16	16	30	0	30	98	56	0	intron	ISNP
*****	*****	16	56885147	0.3469828	0.1093	8.606E-05	0.33	0.19	0.59	0.59	1	15	15	32	0	23	98	63	0	CDS	sSNP
*****	*****	16	79112449	0.4978448	0.0508	8.014E-05	0.39	0.24	0.63	0.63	4	23	23	21	0	62	78	44	0	upstream	gSNP
*****	*****	16	83739456	0.3900862	0.844	1.461E-05	0.31	0.18	0.54	0.54	0	19	19	29	0	35	92	57	0	upstream	gSNP
*****	*****	17	29853048	0.4267241	0.4586	7.912E-05	2.49	1.57	3.94	3.94	19	20	20	9	0	29	82	73	0	downstream	gSNP
*****	*****	20	24056773	0.1190476	0.5776	0.0000418	0.30	0.17	0.55	0.55	26	21	21	1	0	153	28	2	1	upstream	gSNP
*****	*****	20	56774371	0.4482759	0.0995	3.472E-05	2.62	1.65	4.17	4.17	17	27	27	4	0	24	99	61	0	downstream	gSNP
*****	*****	20	56774901	0.4482759	0.0995	3.472E-05	0.38	0.24	0.61	0.61	4	27	27	17	0	61	99	24	0	upstream	gSNP
*****	*****	20	56775093	0.4482759	0.0995	3.472E-05	0.38	0.24	0.61	0.61	17	27	27	4	0	24	99	61	0	downstream	gSNP
*****	*****	20	56794076	0.45671	0.3574	0.0000749	0.39	0.25	0.63	0.63	1	67	83	17	1	67	83	34	0	downstream	gSNP
*****	*****	21	45856760	0.1593886	0.0206	1.737E-05	0.32	0.19	0.55	0.55	23	21	21	4	0	143	32	6	3	upstream	gSNP
*****	*****	22	16783629	0.4152174	0.4175	4.728E-05	2.90	1.71	4.92	4.92	27	17	17	2	2	56	86	42	0	downstream	gSNP
*****	*****	22	16801899	0.469697	0.2137	8.608E-05	2.59	1.60	4.21	4.21	25	18	18	5	0	47	83	53	1	upstream	gSNP

LC-MS/MSでのオフタルミン酸関連物質の分離・定量分析



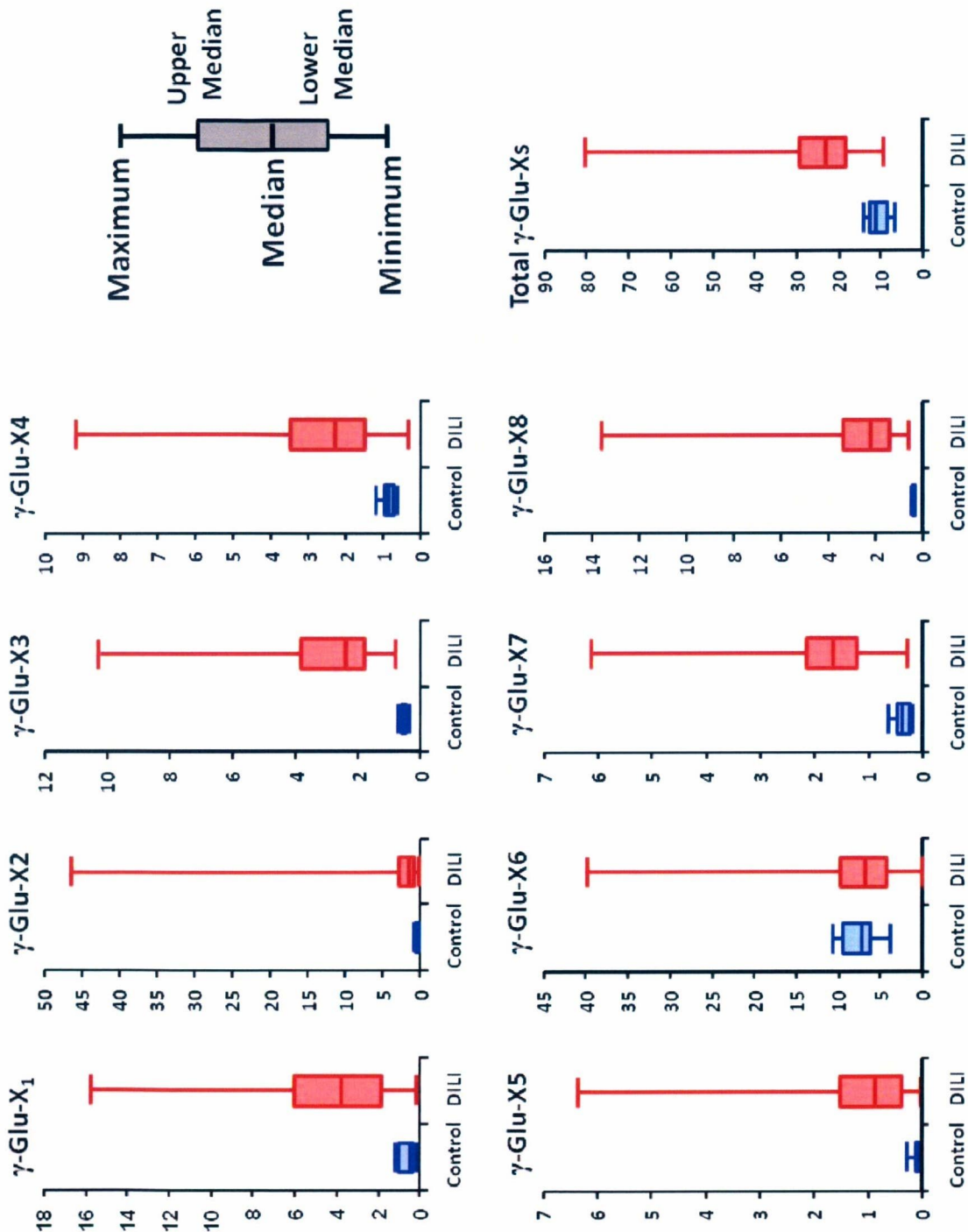
LC-MS/MSでのヒポキサンチン関連物質の分離・定量分析

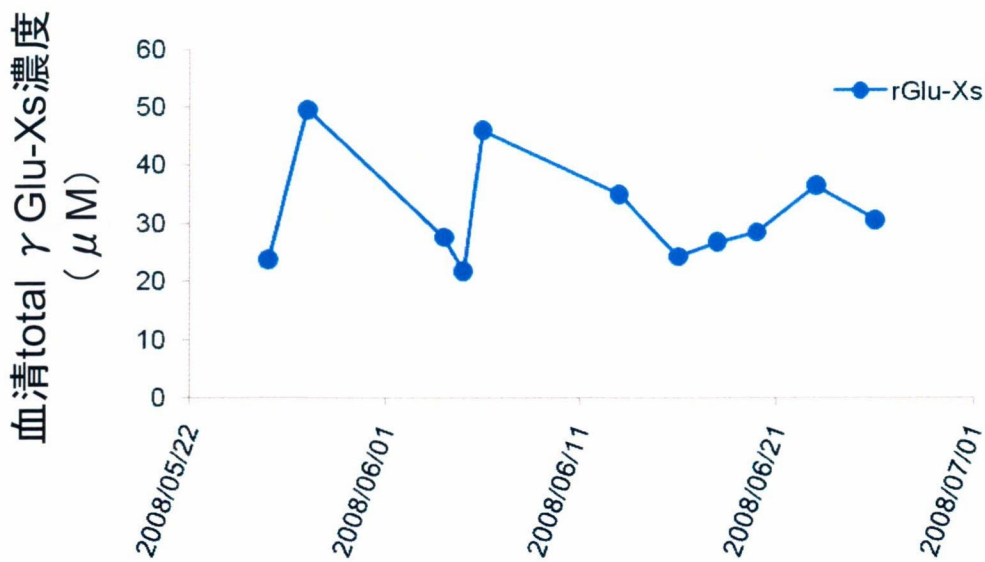
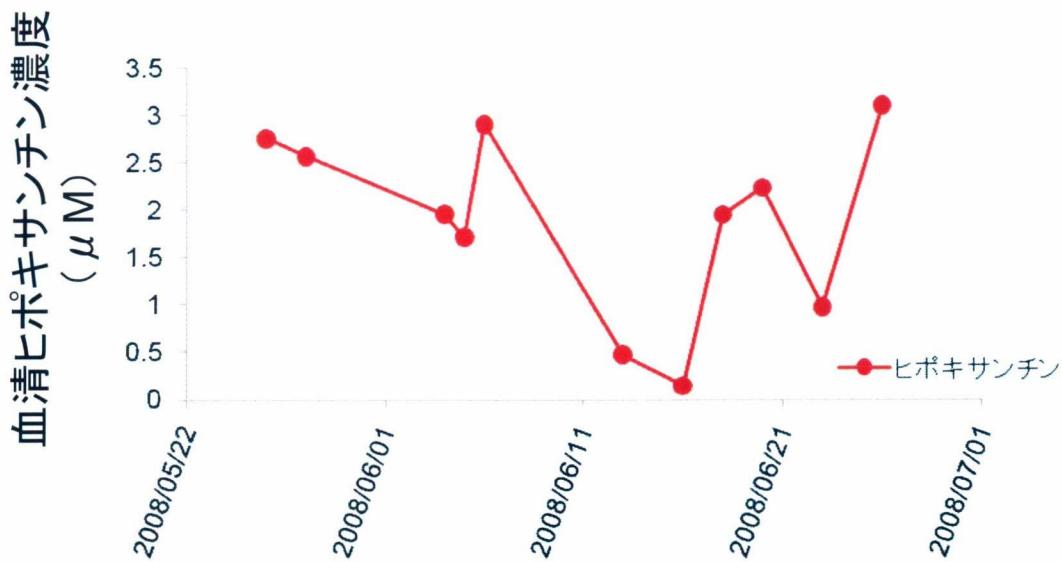
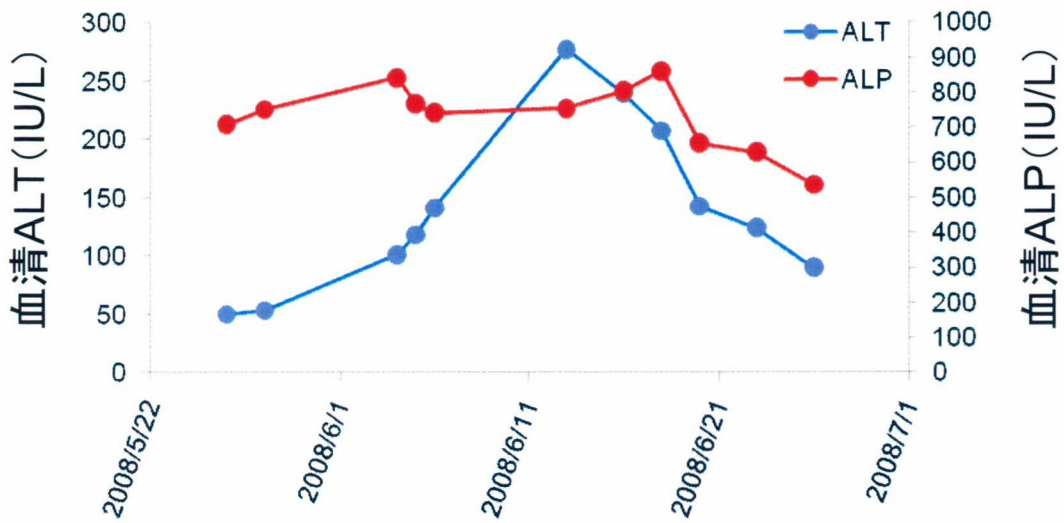


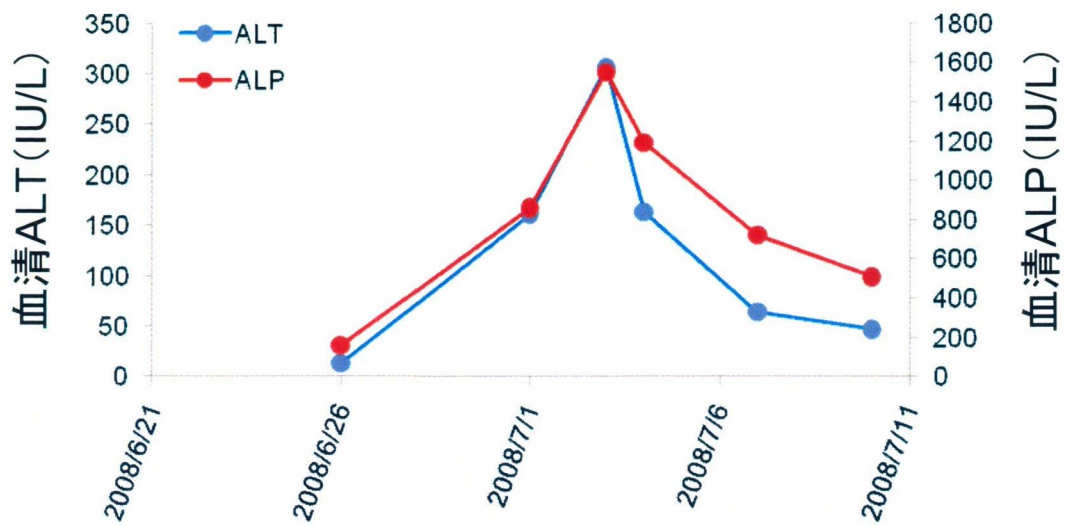
DILI 発症患者における γ -Glu-Xs の定量結果

→DILI 発症時には γ -Glu-Xsの血清中濃度が上昇する。

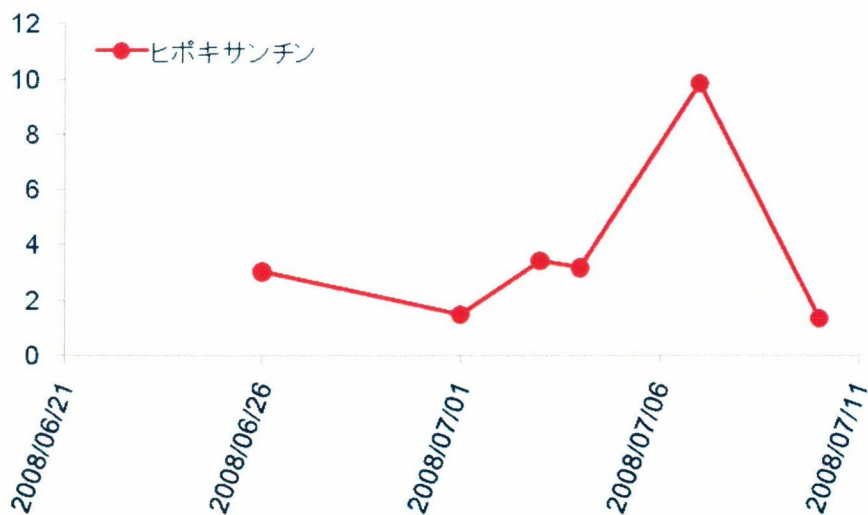
(三) 概観



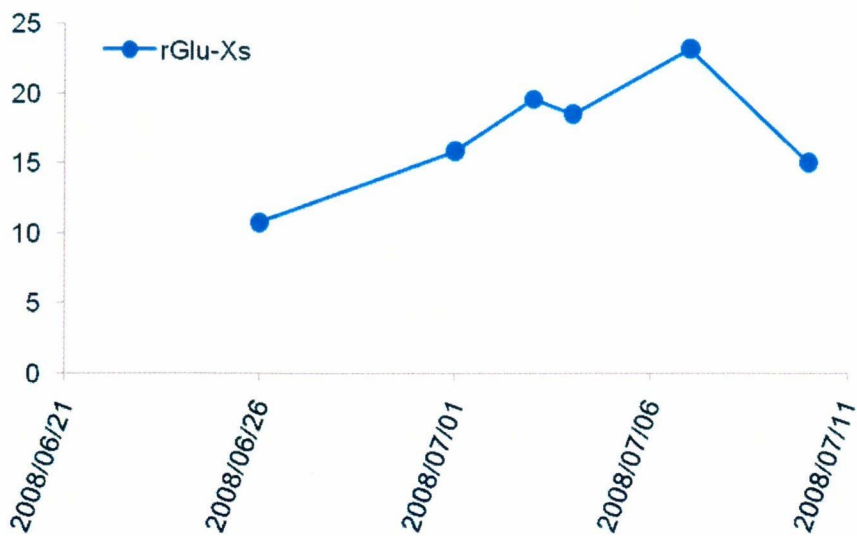


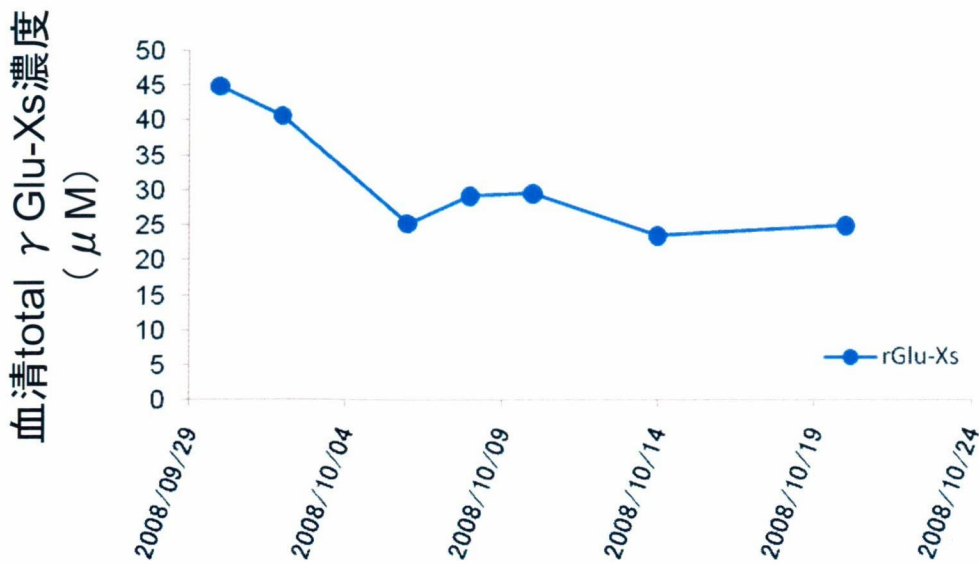
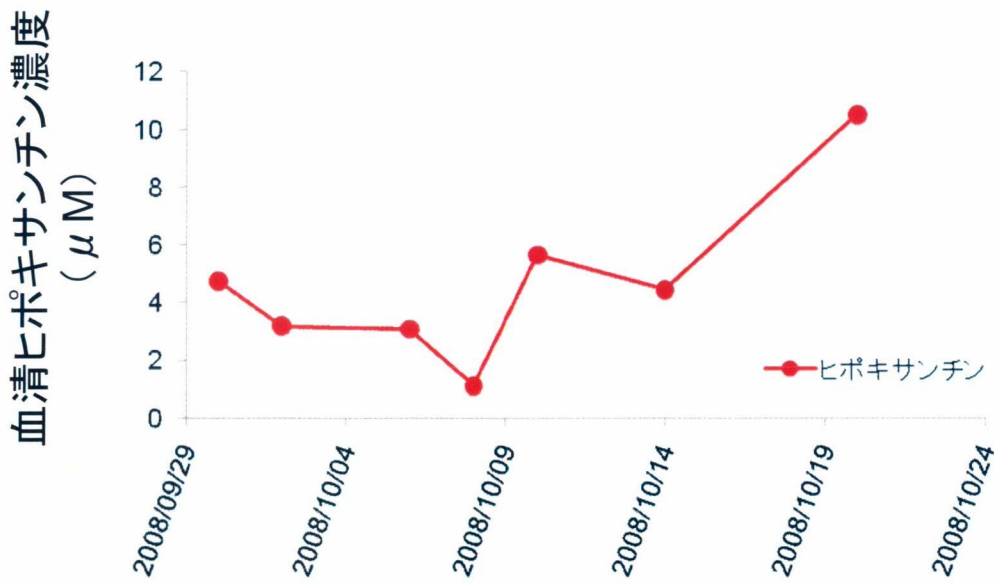
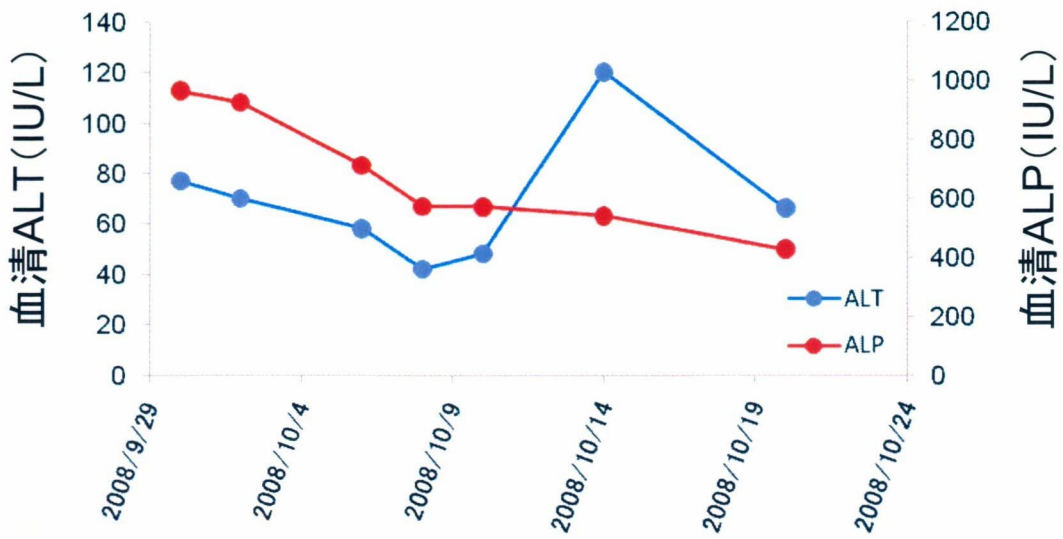


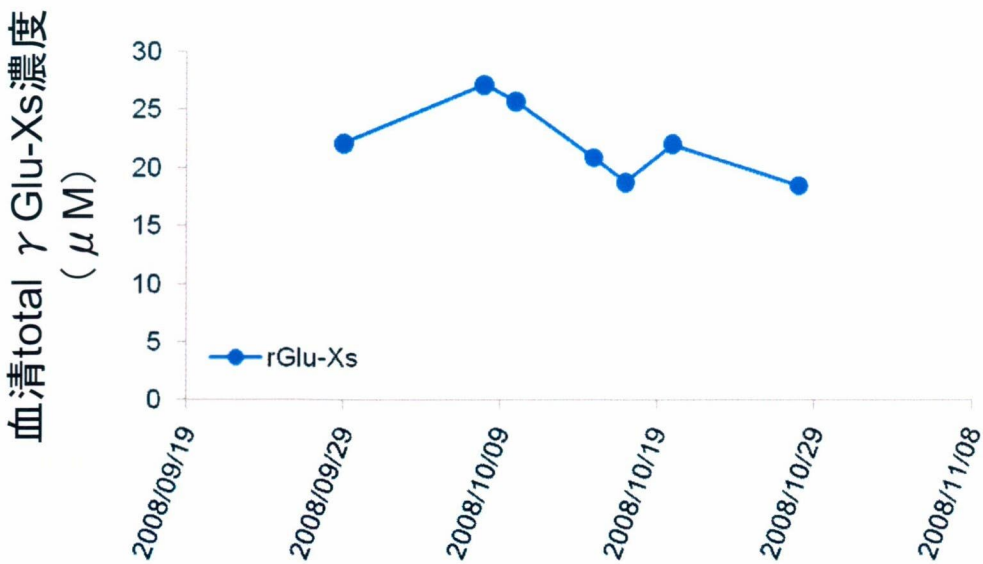
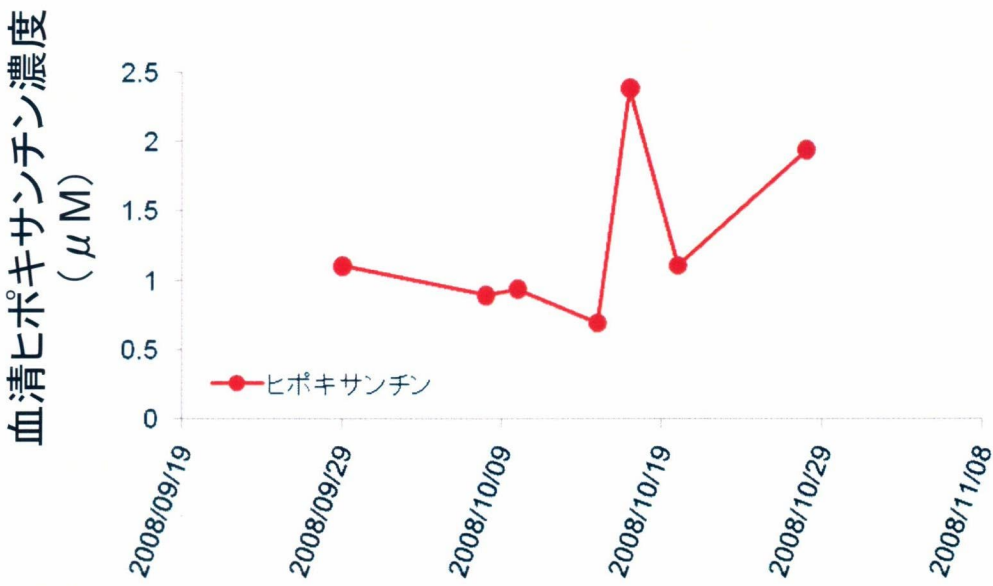
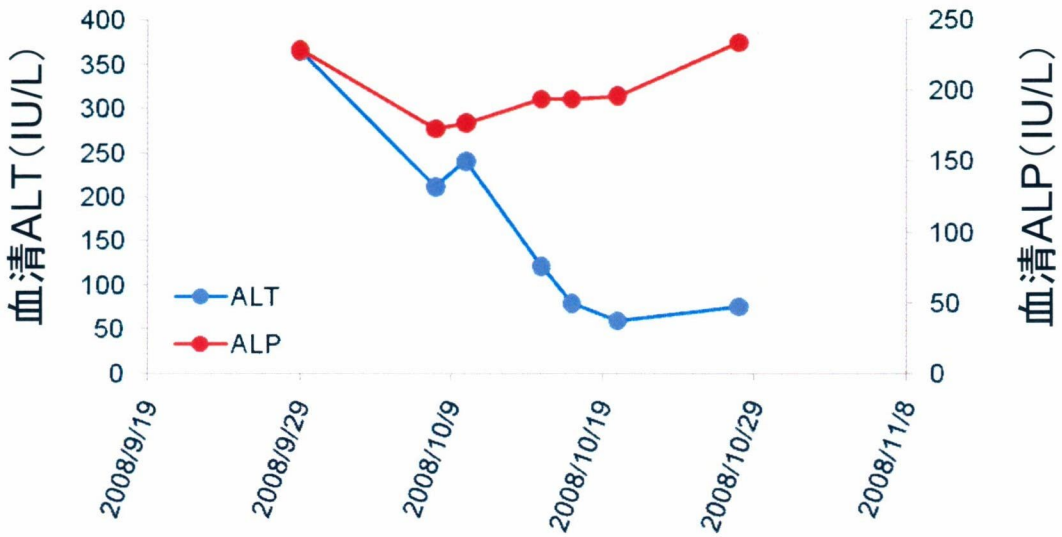
血清ヒポキサンチン濃度 (μM)

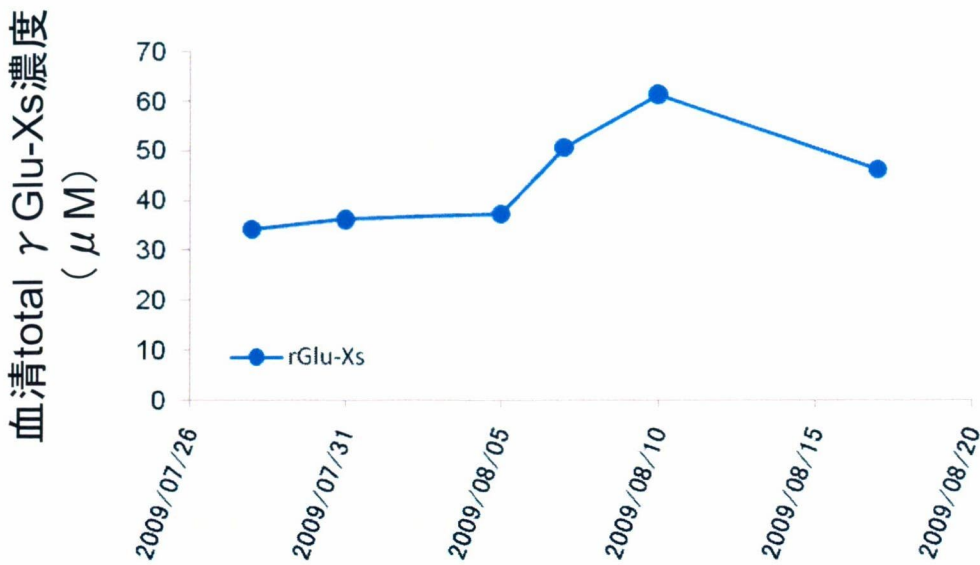
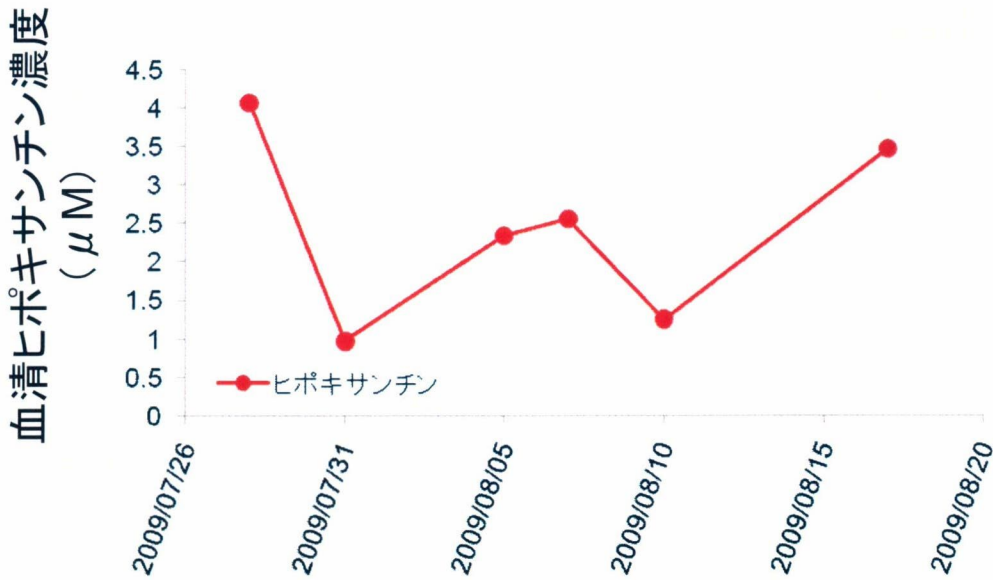
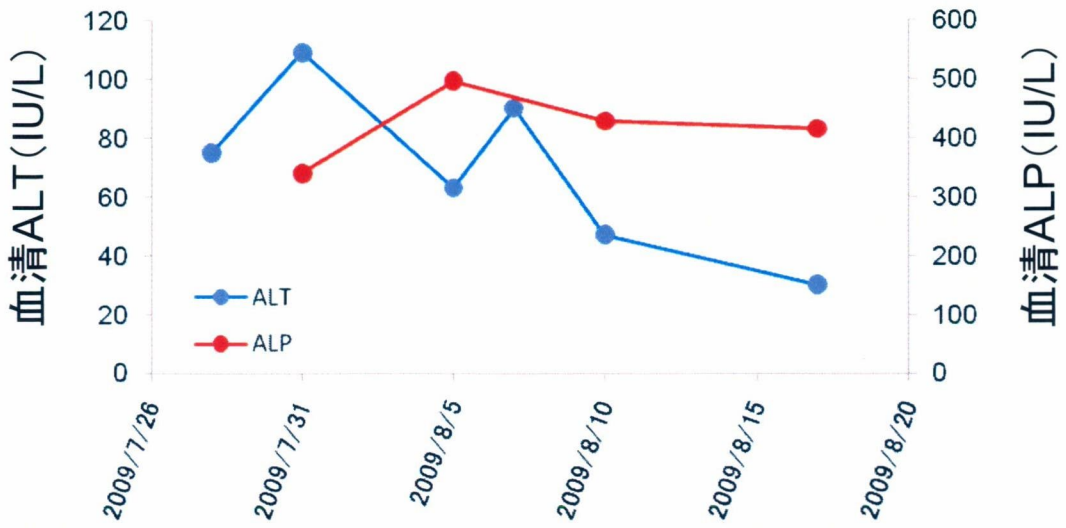


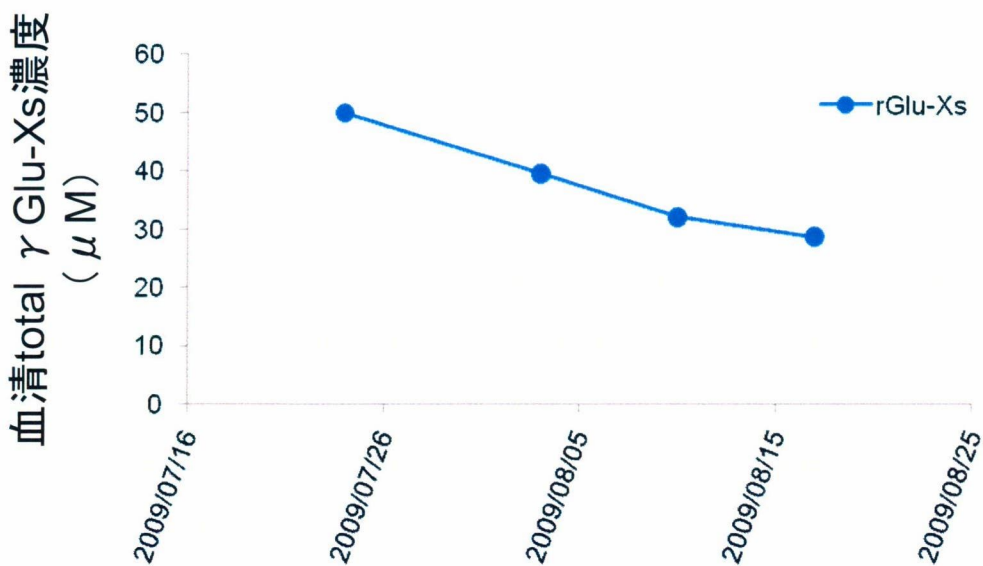
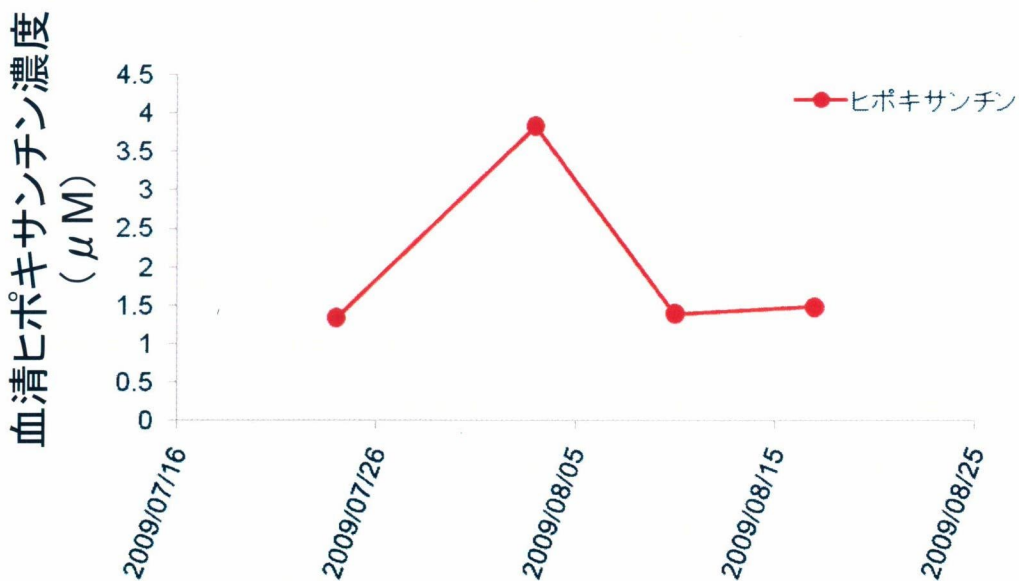
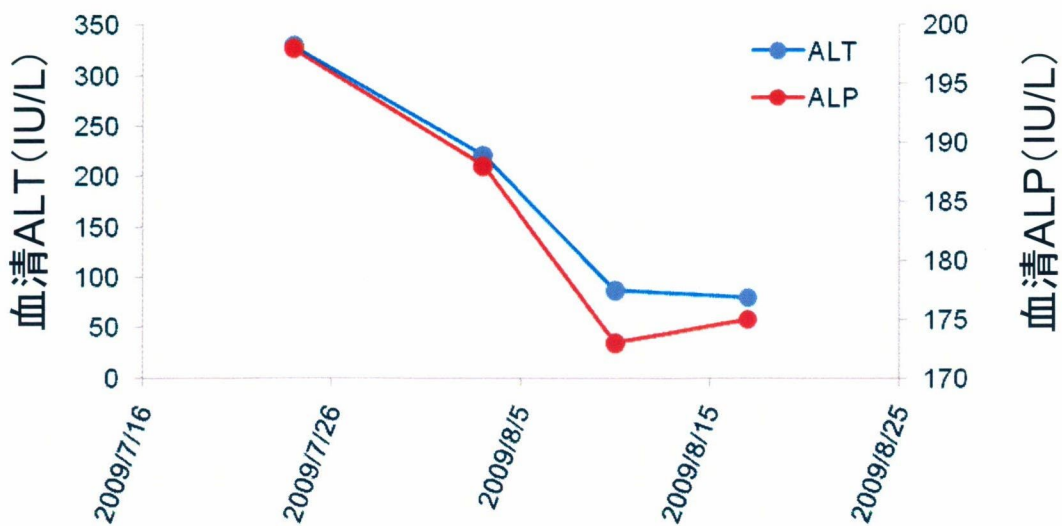
血清total γ Glu-Xs濃度 (μM)

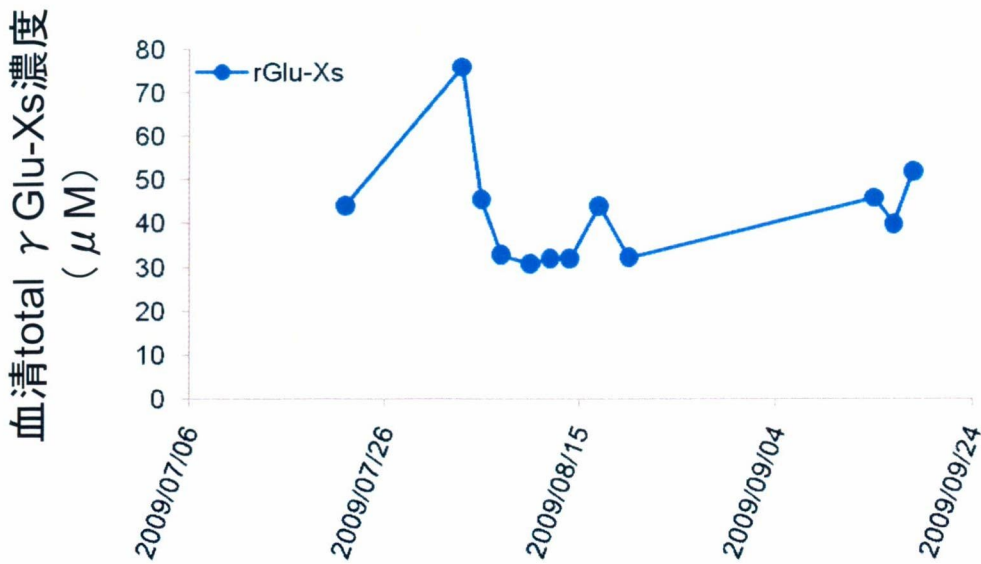
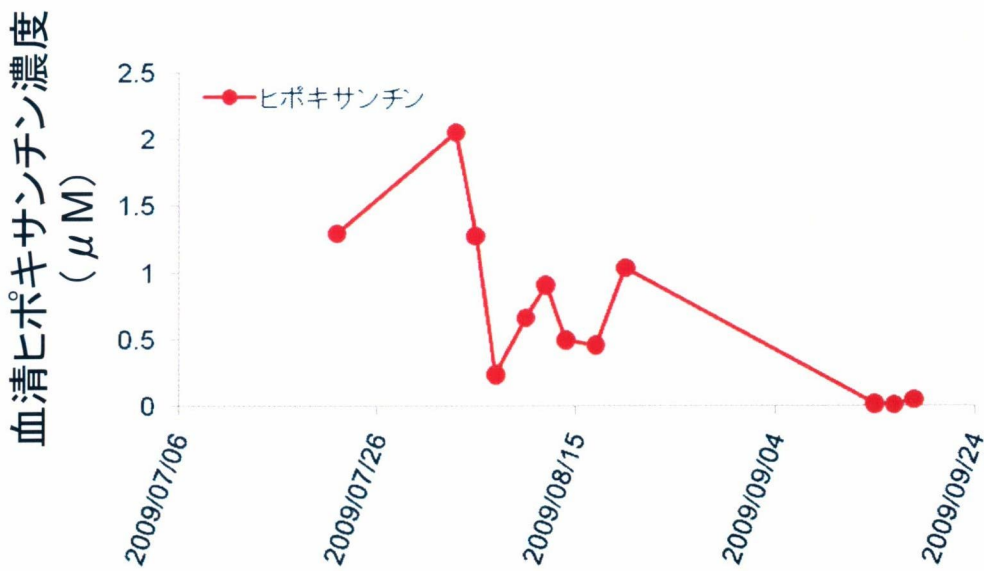
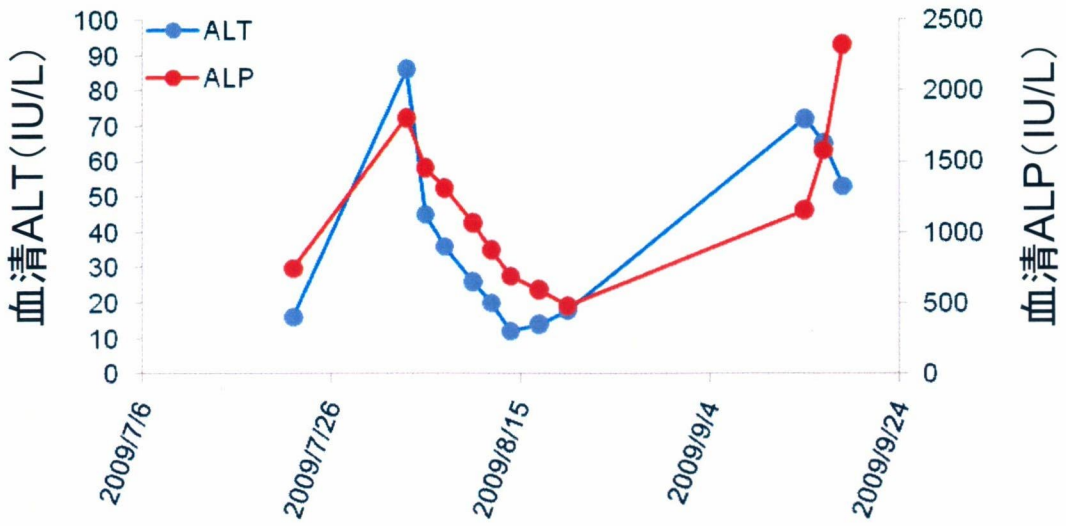


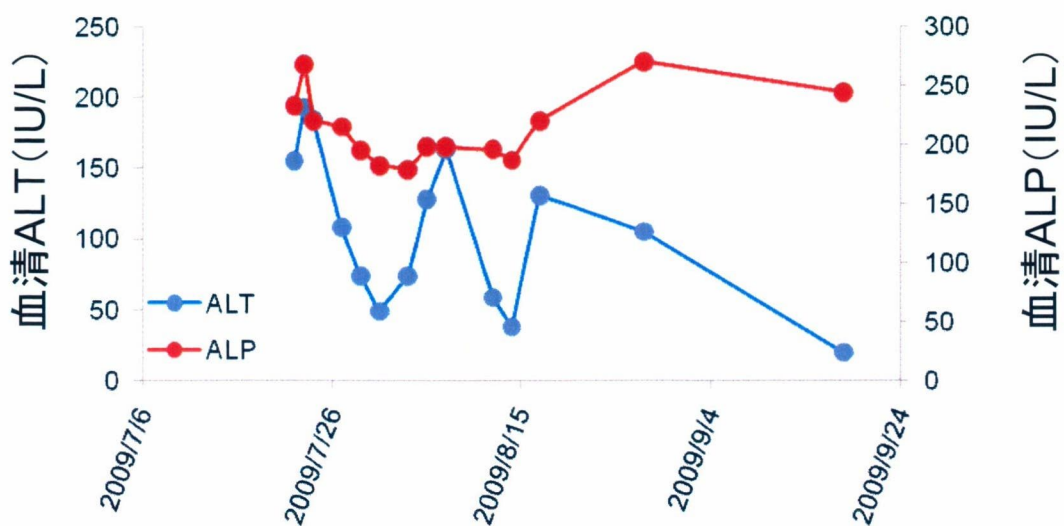




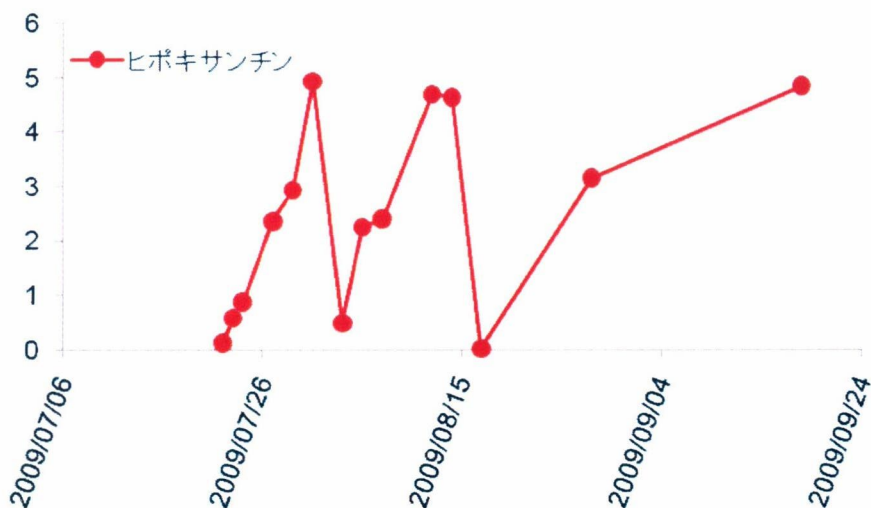




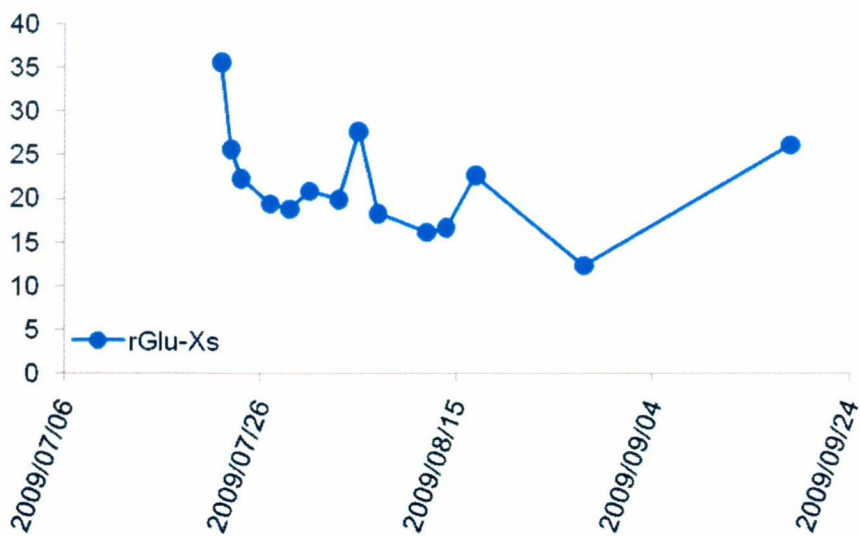


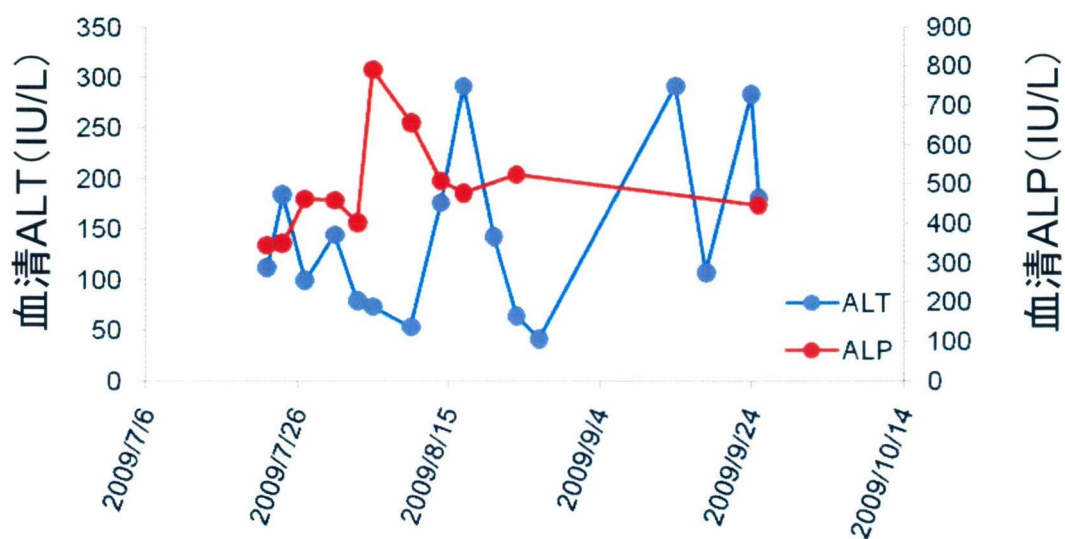


血清ヒポキサンチン濃度 (μM)

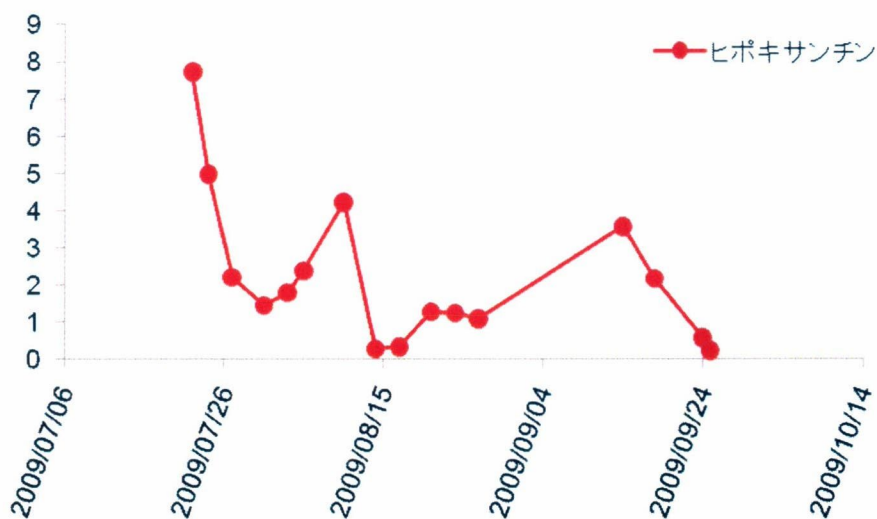


血清total γGlu-Xs濃度 (μM)

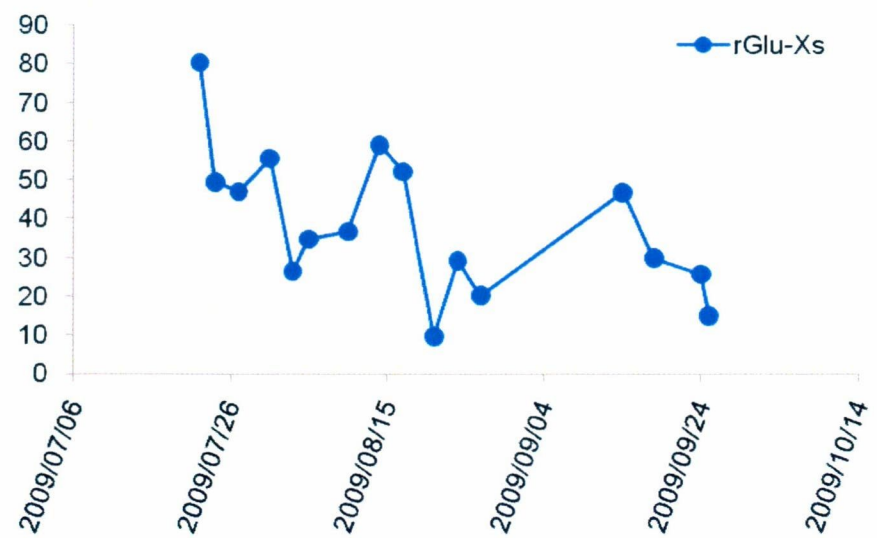


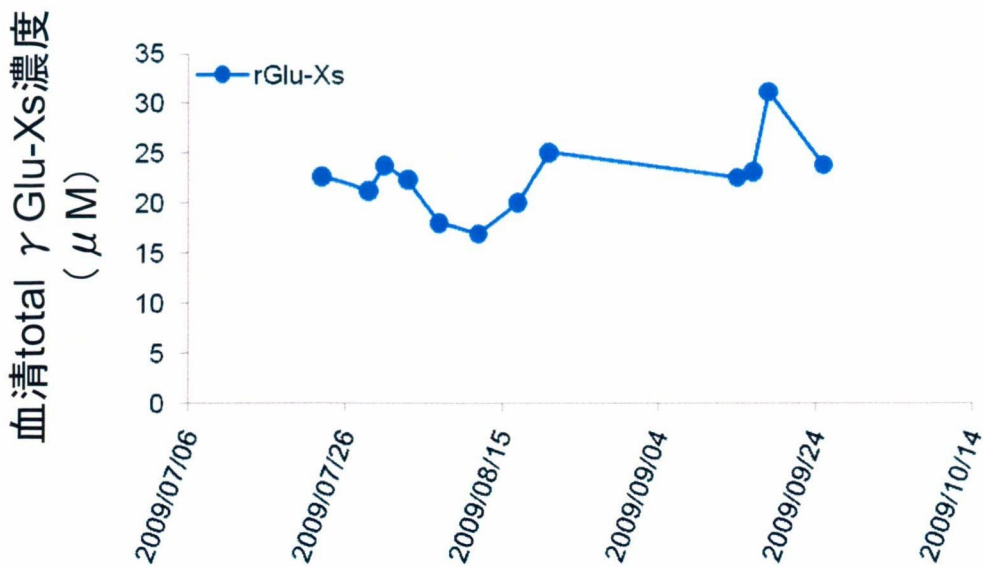
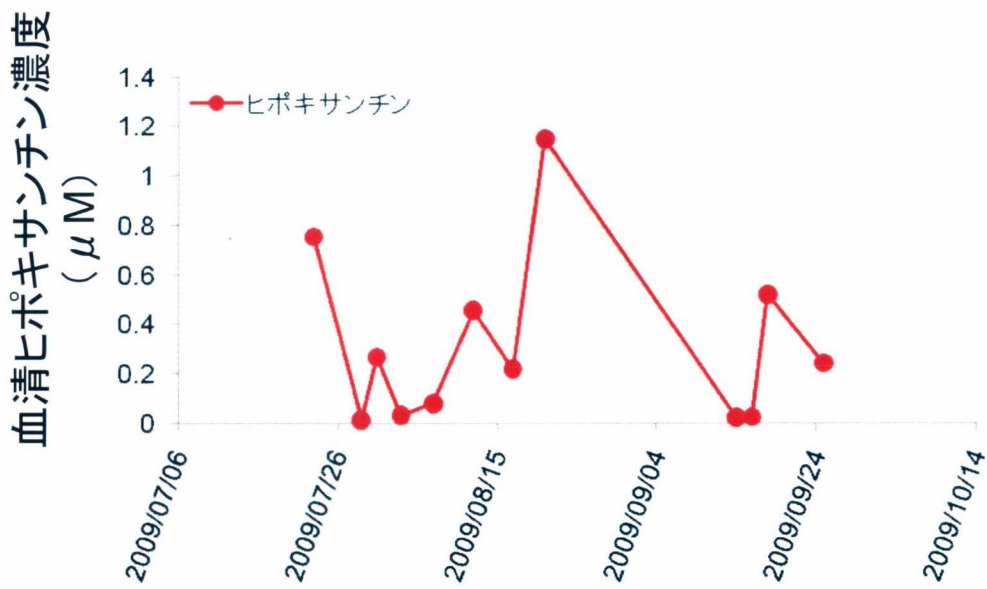
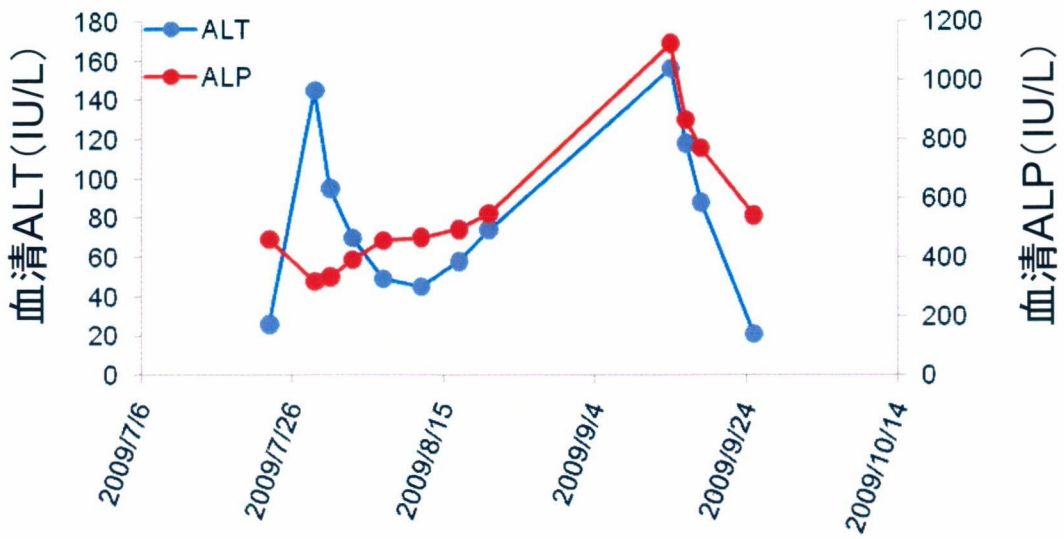


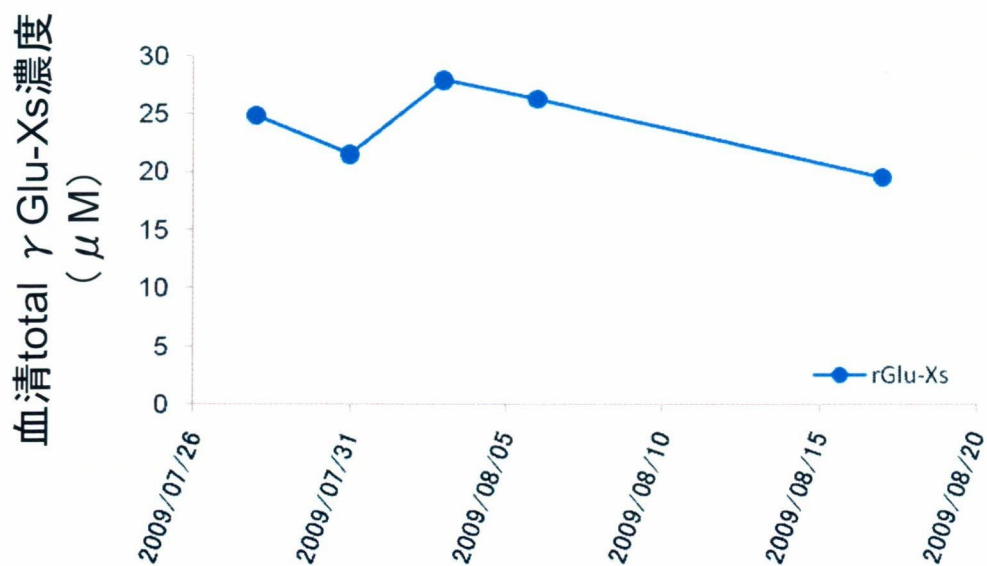
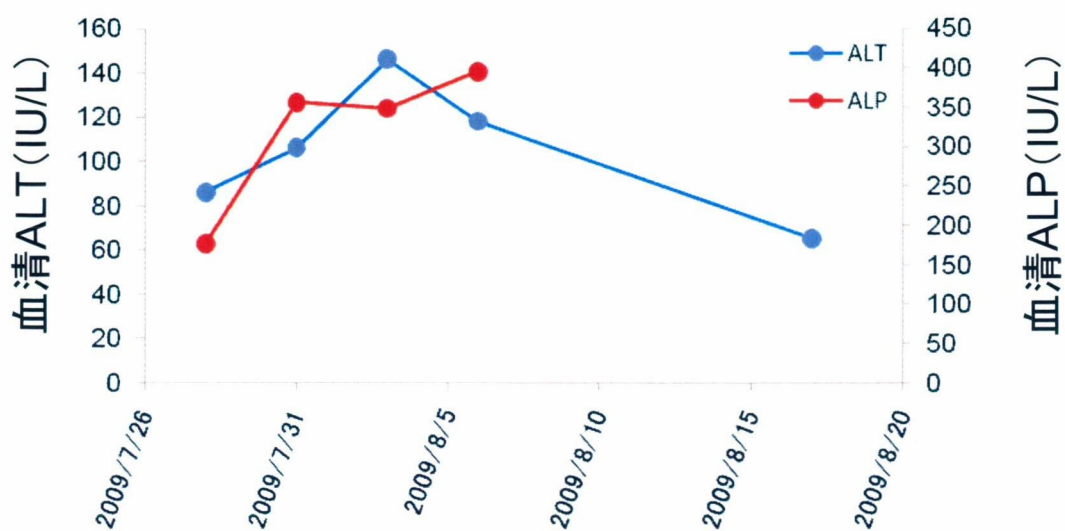
血清ヒポキサンチン濃度 (μM)

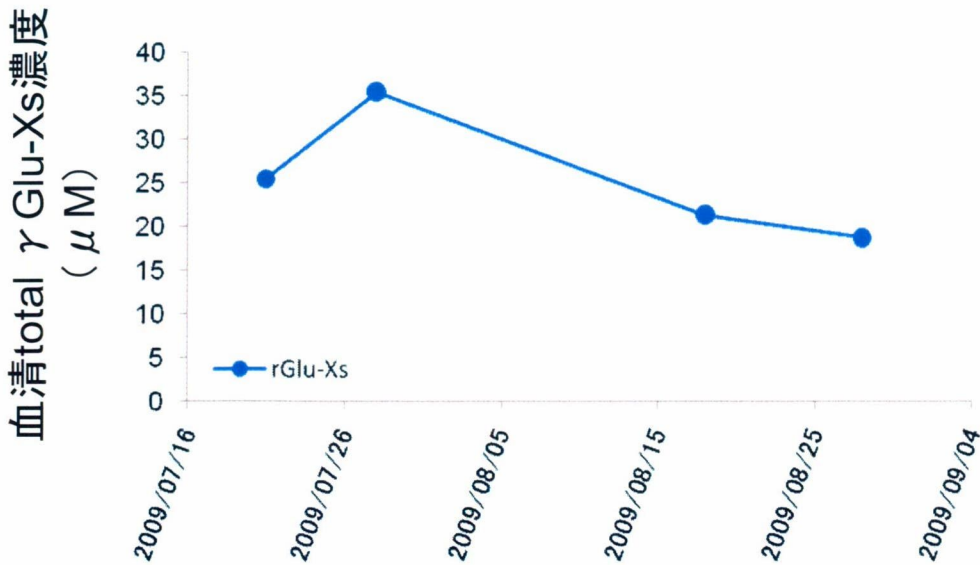
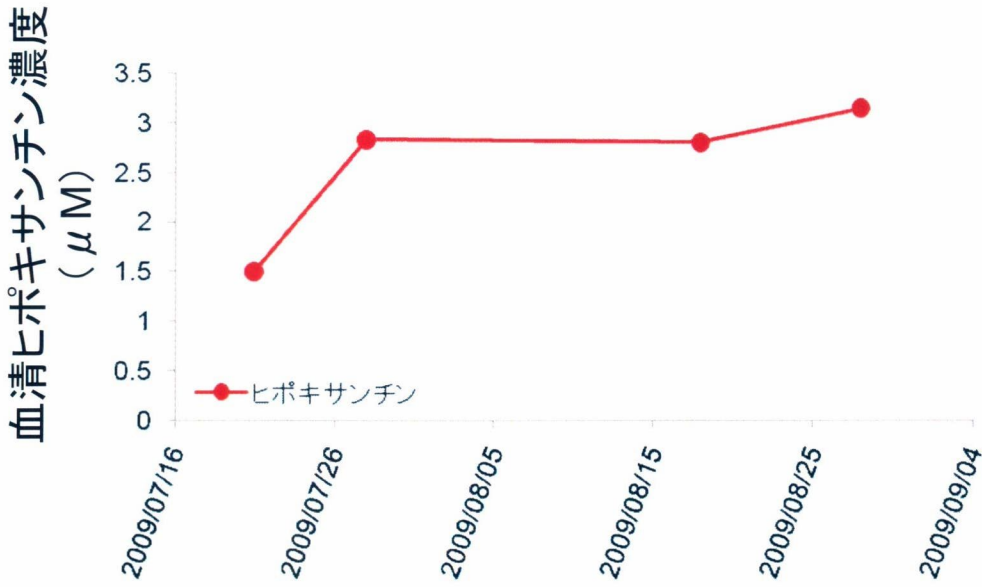
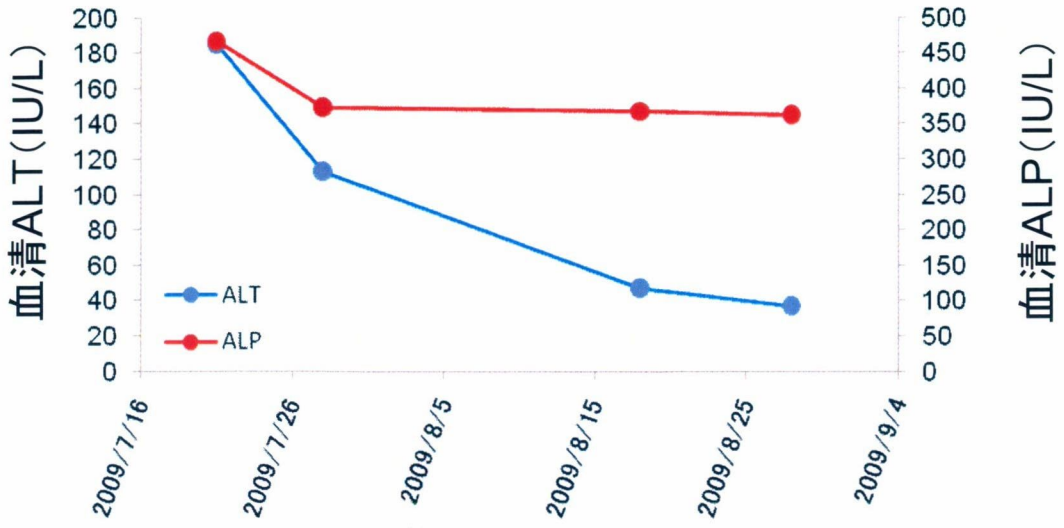


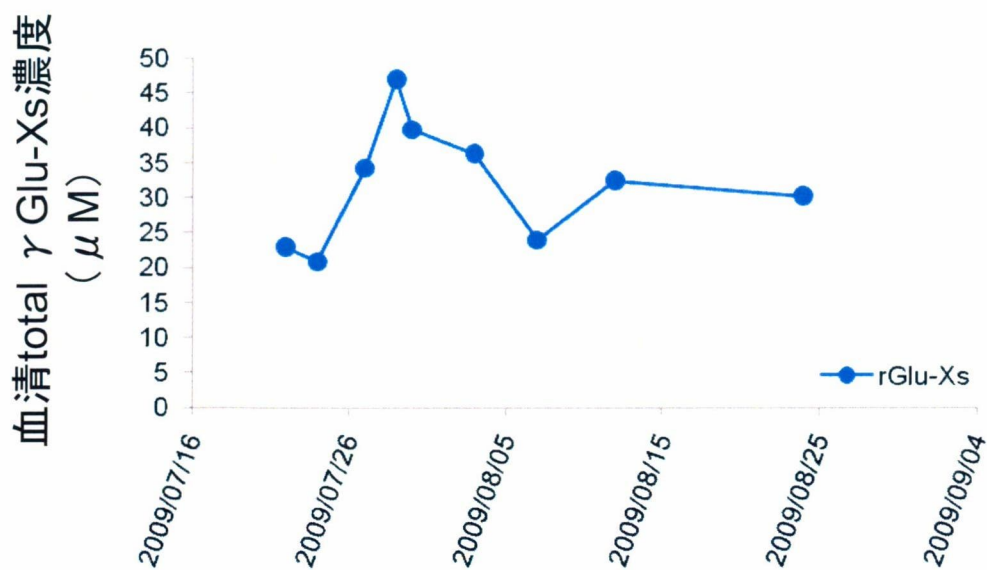
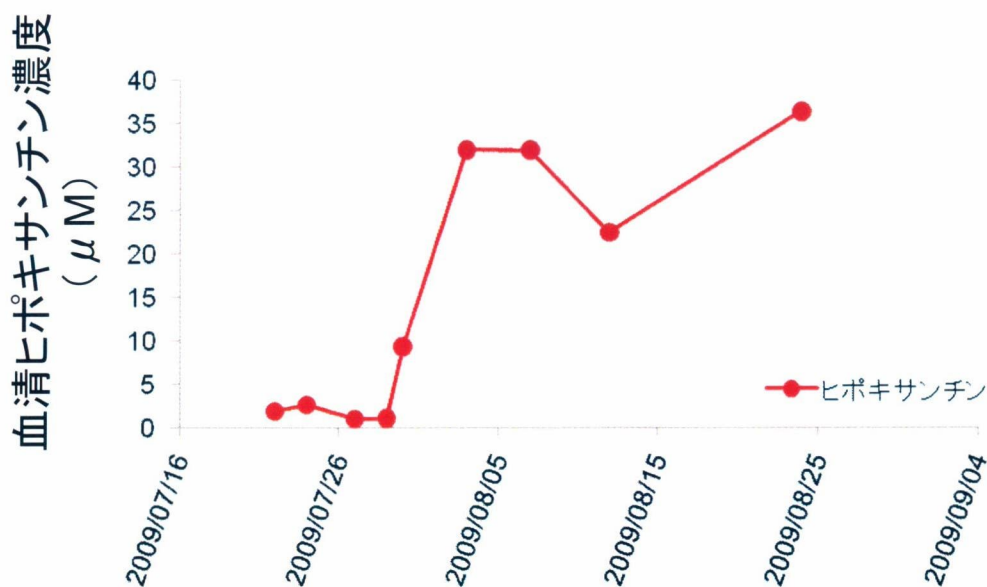
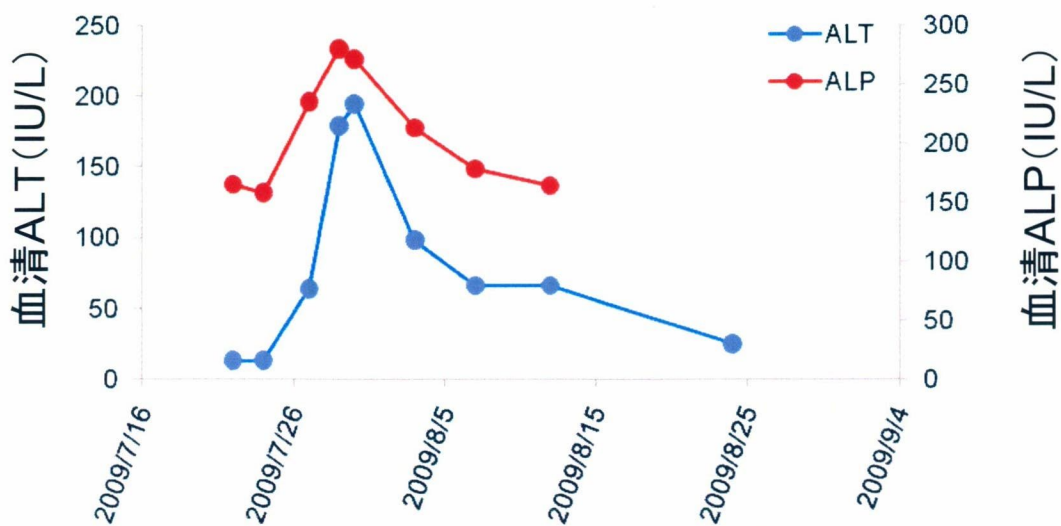
血清total γ Glu-Xs濃度 (μM)

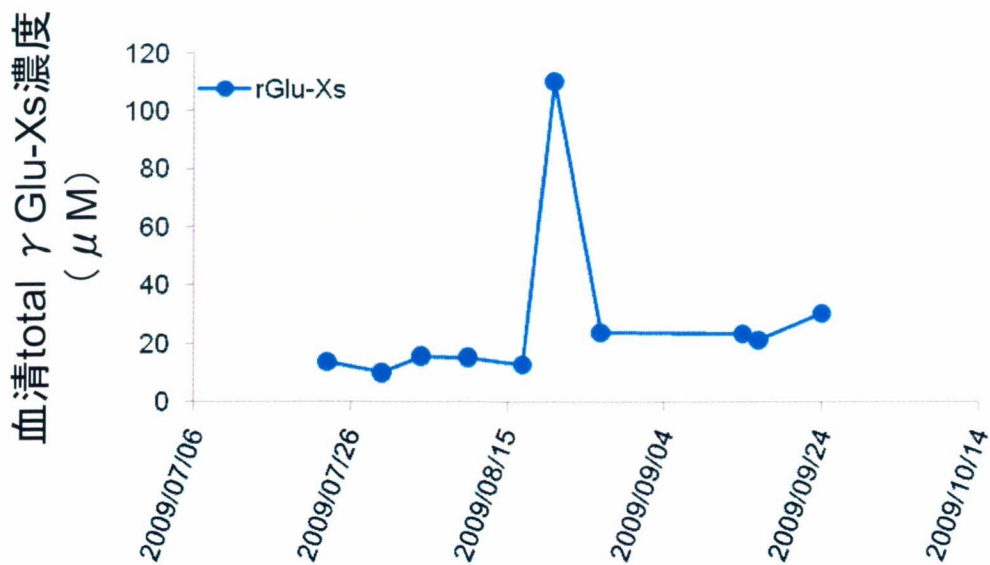
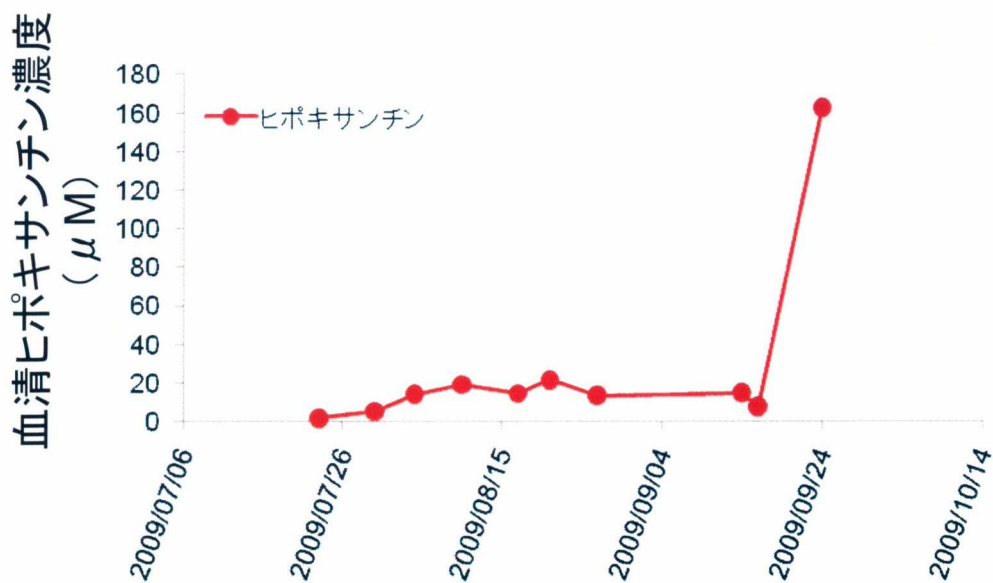
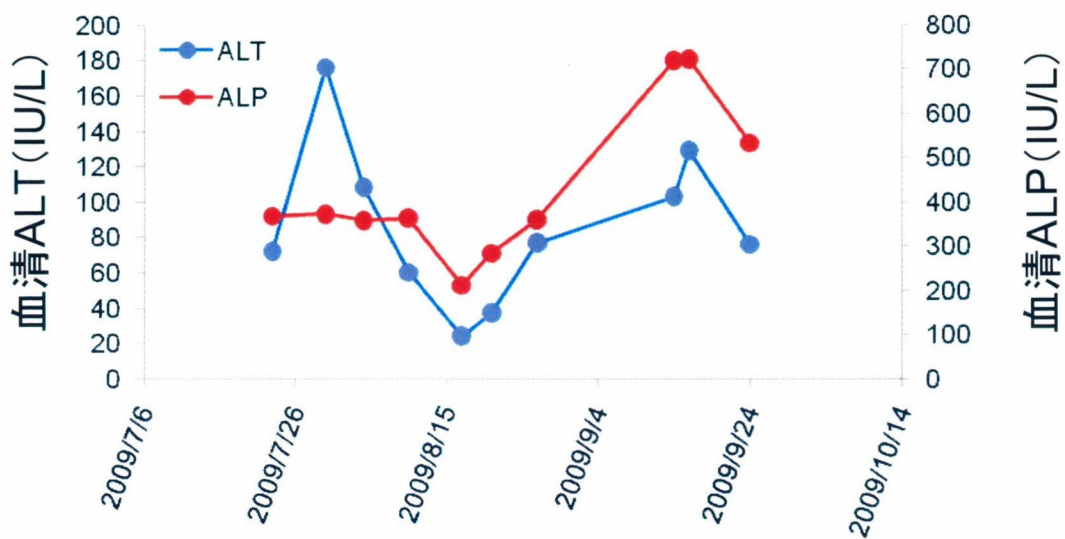




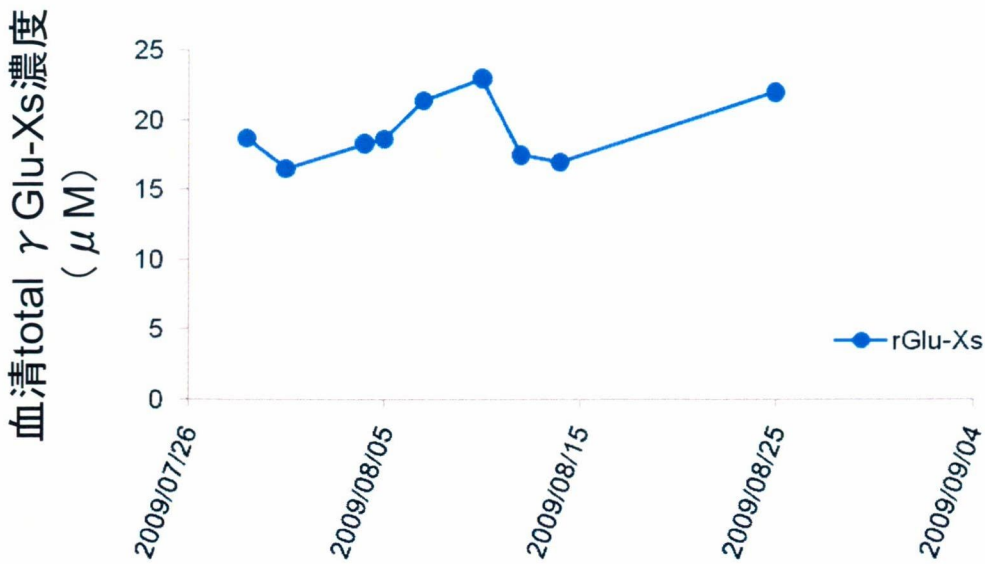
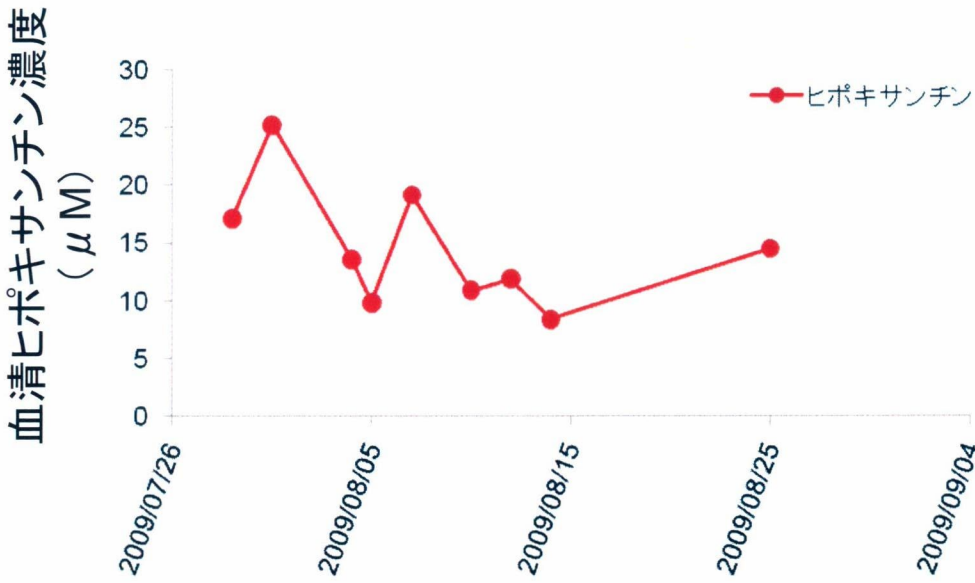
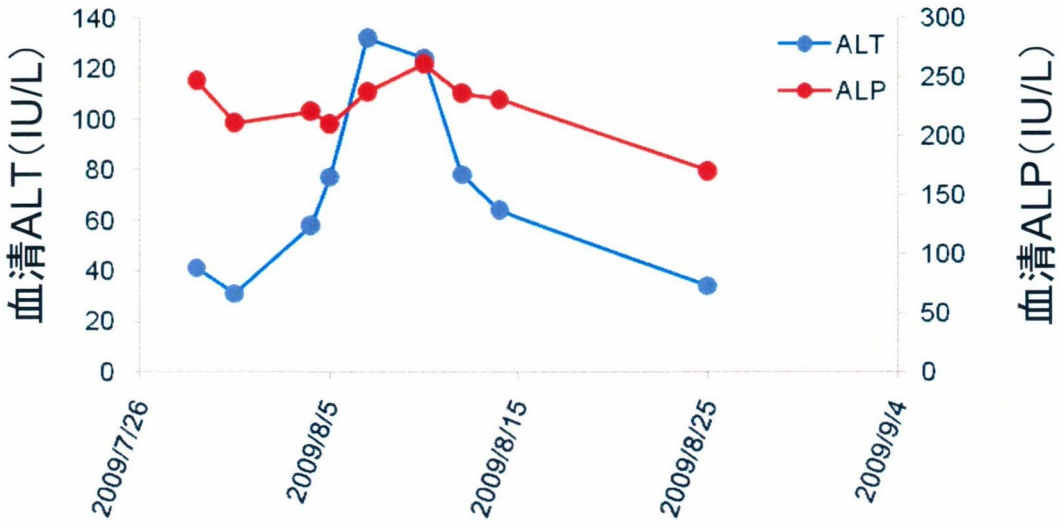








HT_42



HT_43

