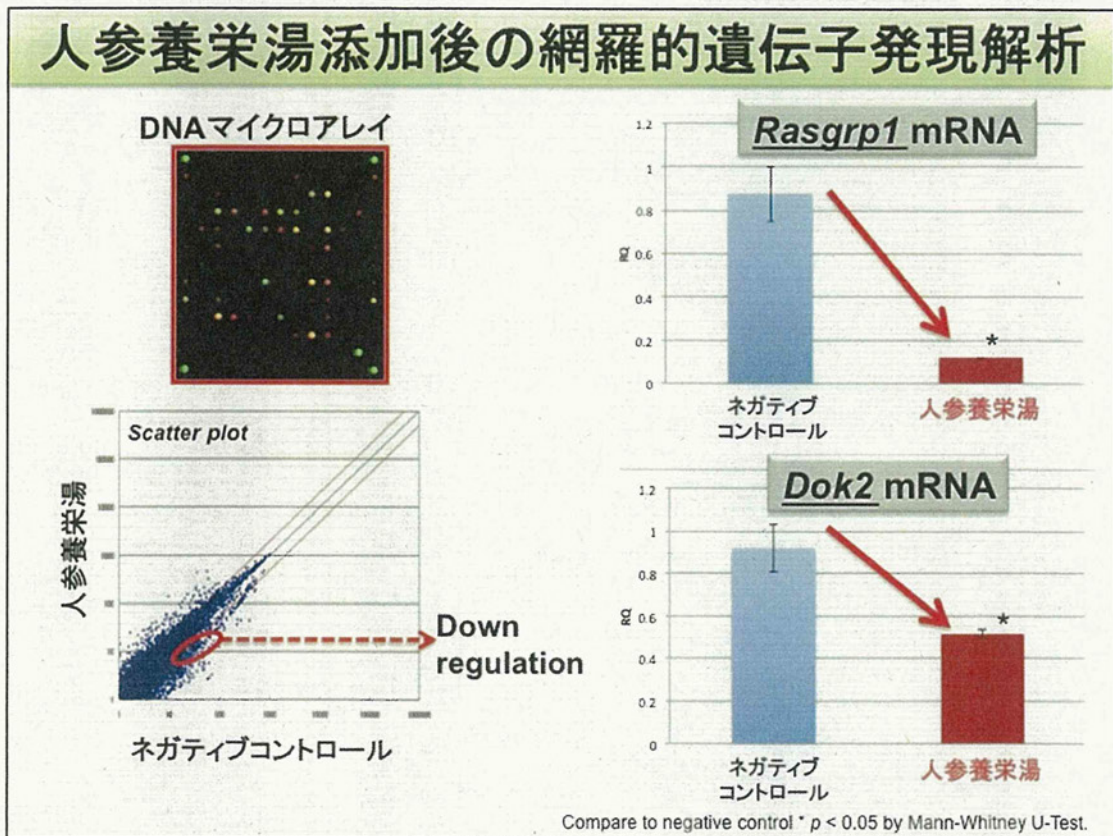


## DNA マイクロアレイによる網羅的遺伝子発現解析

人參養榮湯添加による遺伝子発現の網羅的解析を行うため、骨髓単核球細胞を人參養榮湯添加群と非添加群で培養し、11日目にサンプルを回収した。本サンプルをセルイノベータ社へ委託し、マイクロアレイ法で解析した(データの詳細は下表参照)。



マイクロアレイデータより当研究室で解析実績のある遺伝子に注目し、白血球造血に関与する*Rasgrp1*遺伝子と*Dok2*遺伝子の発現をreal-time PCR法で解析した(上図右)。人參養榮湯添加群では、*Rasgrp1*遺伝子と*Dok2*遺伝子の発現低下が認められた。























# 人参養榮湯添加マウス骨髄単核球細胞のマイクロアレイデータ6/11

ProbeID	GeneSymbol	Description	BM.MNC.Neg [log <sub>2</sub> (Fold <sub>2</sub> ) +1]	BM.MNC.Neg [log <sub>2</sub> (Fold <sub>2</sub> ) -1]	BM.MNC.Neg [log <sub>2</sub> (Fold <sub>2</sub> ) +1]	BM.MNC.Neg [log <sub>2</sub> (Fold <sub>2</sub> ) -1]	Log2(Fold <sub>2</sub> ) +1	Log2(Fold <sub>2</sub> ) -1	Primary/Annotation	RefSeq Annotation
A.S1.P200370	Fabp2	Mouse mammary fatty acid binding protein 2, mammary and heart (Fabp2), mRNA (NM_019174)	146.48940	2877.8297	M	7.6471466	17.940817	10.587964	NC_019174	NC_019174
A.S1.P200380	Stat2	Mouse mammary STAT2, interferon type 2 (Stat2), mRNA (NM_019105)	282.77123	4014.217	M	7.313333	16.59461	13.907643	NC_019105	NC_019105
A.S1.P200390	Cd47a	Mouse mammary alpha-dependent class IIb integrin CD47a (Cd47a), transcript variant 2, mRNA (NM_009370)	2151.5640	18950.0	F	6.4795386	14.86661	18.346148	NC_009370	NC_009370
A.S1.P200400	Npy	Mouse mammary neuropeptide Y (Npy), mRNA (NM_023454)	484.91013	1324.4	F	4.881913	5.18234	10.064254	NC_023454	NC_023454
A.S1.P200410	Stat6b	Mouse mammary STAT6, interferon gamma 2, group 2, member B (Stat6b), transcript variant 2, mRNA (NM_023425)	927.370	184.1	F	4.691771	95.79747	10.22249	NC_023425	NC_023425
A.S1.P200420	Stat6a	Mouse mammary STAT6, interferon gamma 2, group 2, member A (Stat6a), transcript variant 1, mRNA (NM_023426)	1273.7803	7854.829	F	4.1848274	6.139564	10.32641	NC_023426	NC_023426
A.S1.P200430	Stat6c	Mouse mammary STAT6, interferon gamma 2, group 2, member C (Stat6c), transcript variant 1, mRNA (NM_023427)	4.84600	604.024	F	4.1848274	154.1824	10.32641	NC_023427	NC_023427
A.S1.P200440	Stat6d	Mouse mammary STAT6, interferon gamma 2, group 2, member D (Stat6d), transcript variant 1, mRNA (NM_023428)	275.38135	771.78719	F	4.177910	27.93718	10.32641	NC_023428	NC_023428
A.S1.P200450	Stat6e	Mouse mammary STAT6, interferon gamma 2, group 2, member E (Stat6e), transcript variant 1, mRNA (NM_023429)	42.59981	1038.8229	F	4.169884	42.57916	10.32641	NC_023429	NC_023429
A.S1.P200460	Stat6f	Mouse mammary STAT6, interferon gamma 2, group 2, member F (Stat6f), transcript variant 1, mRNA (NM_023430)	594.3630	1487.150	F	4.176904	1437.1336	10.32641	NC_023430	NC_023430
A.S1.P200470	Stat6g	Mouse mammary STAT6, interferon gamma 2, group 2, member G (Stat6g), transcript variant 1, mRNA (NM_023431)	1179.8734	3872.509	F	4.176904	2418.811	10.32641	NC_023431	NC_023431
A.S1.P200480	Stat6h	Mouse mammary STAT6, interferon gamma 2, group 2, member H (Stat6h), transcript variant 1, mRNA (NM_023432)	46.92027	1994.547	F	4.1699128	46.97728	10.32641	NC_023432	NC_023432
A.S1.P200490	Stat6i	Mouse mammary STAT6, interferon gamma 2, group 2, member I (Stat6i), transcript variant 1, mRNA (NM_023433)	137.8222	421.201	F	4.169291	22.46662	10.32641	NC_023433	NC_023433
A.S1.P200500	Stat6j	Mouse mammary STAT6, interferon gamma 2, group 2, member J (Stat6j), transcript variant 1, mRNA (NM_023434)	501.1820	682.8719	F	4.174746	17.17827	10.32641	NC_023434	NC_023434
A.S1.P200510	Stat6k	Mouse mammary STAT6, interferon gamma 2, group 2, member K (Stat6k), transcript variant 1, mRNA (NM_023435)	25.7804	871.4809	F	4.169291	27.12621	10.32641	NC_023435	NC_023435
A.S1.P200520	Stat6l	Mouse mammary STAT6, interferon gamma 2, group 2, member L (Stat6l), transcript variant 1, mRNA (NM_023436)	4.600200	261.24714	F	4.169291	7.65549	10.32641	NC_023436	NC_023436
A.S1.P200530	Stat6m	Mouse mammary STAT6, interferon gamma 2, group 2, member M (Stat6m), transcript variant 1, mRNA (NM_023437)	4.50030	353.27814	F	4.169291	79.5704	10.32641	NC_023437	NC_023437
A.S1.P200540	Stat6n	Mouse mammary STAT6, interferon gamma 2, group 2, member N (Stat6n), transcript variant 1, mRNA (NM_023438)	4.65004	287.17814	F	4.169291	61.13039	10.32641	NC_023438	NC_023438
A.S1.P200550	Stat6o	Mouse mammary STAT6, interferon gamma 2, group 2, member O (Stat6o), transcript variant 1, mRNA (NM_023439)	830.2900	1109.6000	F	4.169291	11.76426	10.32641	NC_023439	NC_023439
A.S1.P200560	Stat6p	Mouse mammary STAT6, interferon gamma 2, group 2, member P (Stat6p), transcript variant 1, mRNA (NM_023440)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023440	NC_023440
A.S1.P200570	Stat6q	Mouse mammary STAT6, interferon gamma 2, group 2, member Q (Stat6q), transcript variant 1, mRNA (NM_023441)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023441	NC_023441
A.S1.P200580	Stat6r	Mouse mammary STAT6, interferon gamma 2, group 2, member R (Stat6r), transcript variant 1, mRNA (NM_023442)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023442	NC_023442
A.S1.P200590	Stat6s	Mouse mammary STAT6, interferon gamma 2, group 2, member S (Stat6s), transcript variant 1, mRNA (NM_023443)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023443	NC_023443
A.S1.P200600	Stat6t	Mouse mammary STAT6, interferon gamma 2, group 2, member T (Stat6t), transcript variant 1, mRNA (NM_023444)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023444	NC_023444
A.S1.P200610	Stat6u	Mouse mammary STAT6, interferon gamma 2, group 2, member U (Stat6u), transcript variant 1, mRNA (NM_023445)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023445	NC_023445
A.S1.P200620	Stat6v	Mouse mammary STAT6, interferon gamma 2, group 2, member V (Stat6v), transcript variant 1, mRNA (NM_023446)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023446	NC_023446
A.S1.P200630	Stat6w	Mouse mammary STAT6, interferon gamma 2, group 2, member W (Stat6w), transcript variant 1, mRNA (NM_023447)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023447	NC_023447
A.S1.P200640	Stat6x	Mouse mammary STAT6, interferon gamma 2, group 2, member X (Stat6x), transcript variant 1, mRNA (NM_023448)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023448	NC_023448
A.S1.P200650	Stat6y	Mouse mammary STAT6, interferon gamma 2, group 2, member Y (Stat6y), transcript variant 1, mRNA (NM_023449)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023449	NC_023449
A.S1.P200660	Stat6z	Mouse mammary STAT6, interferon gamma 2, group 2, member Z (Stat6z), transcript variant 1, mRNA (NM_023450)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023450	NC_023450
A.S1.P200670	Stat6aa	Mouse mammary STAT6, interferon gamma 2, group 2, member AA (Stat6aa), transcript variant 1, mRNA (NM_023451)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023451	NC_023451
A.S1.P200680	Stat6ab	Mouse mammary STAT6, interferon gamma 2, group 2, member AB (Stat6ab), transcript variant 1, mRNA (NM_023452)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023452	NC_023452
A.S1.P200690	Stat6ac	Mouse mammary STAT6, interferon gamma 2, group 2, member AC (Stat6ac), transcript variant 1, mRNA (NM_023453)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023453	NC_023453
A.S1.P200700	Stat6ad	Mouse mammary STAT6, interferon gamma 2, group 2, member AD (Stat6ad), transcript variant 1, mRNA (NM_023454)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023454	NC_023454
A.S1.P200710	Stat6ae	Mouse mammary STAT6, interferon gamma 2, group 2, member AE (Stat6ae), transcript variant 1, mRNA (NM_023455)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023455	NC_023455
A.S1.P200720	Stat6af	Mouse mammary STAT6, interferon gamma 2, group 2, member AF (Stat6af), transcript variant 1, mRNA (NM_023456)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023456	NC_023456
A.S1.P200730	Stat6ag	Mouse mammary STAT6, interferon gamma 2, group 2, member AG (Stat6ag), transcript variant 1, mRNA (NM_023457)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023457	NC_023457
A.S1.P200740	Stat6ah	Mouse mammary STAT6, interferon gamma 2, group 2, member AH (Stat6ah), transcript variant 1, mRNA (NM_023458)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023458	NC_023458
A.S1.P200750	Stat6ai	Mouse mammary STAT6, interferon gamma 2, group 2, member AI (Stat6ai), transcript variant 1, mRNA (NM_023459)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023459	NC_023459
A.S1.P200760	Stat6aj	Mouse mammary STAT6, interferon gamma 2, group 2, member AJ (Stat6aj), transcript variant 1, mRNA (NM_023460)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023460	NC_023460
A.S1.P200770	Stat6ak	Mouse mammary STAT6, interferon gamma 2, group 2, member AK (Stat6ak), transcript variant 1, mRNA (NM_023461)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023461	NC_023461
A.S1.P200780	Stat6al	Mouse mammary STAT6, interferon gamma 2, group 2, member AL (Stat6al), transcript variant 1, mRNA (NM_023462)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023462	NC_023462
A.S1.P200790	Stat6am	Mouse mammary STAT6, interferon gamma 2, group 2, member AM (Stat6am), transcript variant 1, mRNA (NM_023463)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023463	NC_023463
A.S1.P200800	Stat6an	Mouse mammary STAT6, interferon gamma 2, group 2, member AN (Stat6an), transcript variant 1, mRNA (NM_023464)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023464	NC_023464
A.S1.P200810	Stat6ao	Mouse mammary STAT6, interferon gamma 2, group 2, member AO (Stat6ao), transcript variant 1, mRNA (NM_023465)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023465	NC_023465
A.S1.P200820	Stat6ap	Mouse mammary STAT6, interferon gamma 2, group 2, member AP (Stat6ap), transcript variant 1, mRNA (NM_023466)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023466	NC_023466
A.S1.P200830	Stat6aq	Mouse mammary STAT6, interferon gamma 2, group 2, member AQ (Stat6aq), transcript variant 1, mRNA (NM_023467)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023467	NC_023467
A.S1.P200840	Stat6ar	Mouse mammary STAT6, interferon gamma 2, group 2, member AR (Stat6ar), transcript variant 1, mRNA (NM_023468)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023468	NC_023468
A.S1.P200850	Stat6as	Mouse mammary STAT6, interferon gamma 2, group 2, member AS (Stat6as), transcript variant 1, mRNA (NM_023469)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023469	NC_023469
A.S1.P200860	Stat6at	Mouse mammary STAT6, interferon gamma 2, group 2, member AT (Stat6at), transcript variant 1, mRNA (NM_023470)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023470	NC_023470
A.S1.P200870	Stat6au	Mouse mammary STAT6, interferon gamma 2, group 2, member AU (Stat6au), transcript variant 1, mRNA (NM_023471)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023471	NC_023471
A.S1.P200880	Stat6av	Mouse mammary STAT6, interferon gamma 2, group 2, member AV (Stat6av), transcript variant 1, mRNA (NM_023472)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023472	NC_023472
A.S1.P200890	Stat6aw	Mouse mammary STAT6, interferon gamma 2, group 2, member AW (Stat6aw), transcript variant 1, mRNA (NM_023473)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023473	NC_023473
A.S1.P200900	Stat6ax	Mouse mammary STAT6, interferon gamma 2, group 2, member AX (Stat6ax), transcript variant 1, mRNA (NM_023474)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023474	NC_023474
A.S1.P200910	Stat6ay	Mouse mammary STAT6, interferon gamma 2, group 2, member AY (Stat6ay), transcript variant 1, mRNA (NM_023475)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023475	NC_023475
A.S1.P200920	Stat6az	Mouse mammary STAT6, interferon gamma 2, group 2, member AZ (Stat6az), transcript variant 1, mRNA (NM_023476)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023476	NC_023476
A.S1.P200930	Stat6ba	Mouse mammary STAT6, interferon gamma 2, group 2, member BA (Stat6ba), transcript variant 1, mRNA (NM_023477)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023477	NC_023477
A.S1.P200940	Stat6bb	Mouse mammary STAT6, interferon gamma 2, group 2, member BB (Stat6bb), transcript variant 1, mRNA (NM_023478)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023478	NC_023478
A.S1.P200950	Stat6bc	Mouse mammary STAT6, interferon gamma 2, group 2, member BC (Stat6bc), transcript variant 1, mRNA (NM_023479)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023479	NC_023479
A.S1.P200960	Stat6bd	Mouse mammary STAT6, interferon gamma 2, group 2, member BD (Stat6bd), transcript variant 1, mRNA (NM_023480)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023480	NC_023480
A.S1.P200970	Stat6be	Mouse mammary STAT6, interferon gamma 2, group 2, member BE (Stat6be), transcript variant 1, mRNA (NM_023481)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023481	NC_023481
A.S1.P200980	Stat6bf	Mouse mammary STAT6, interferon gamma 2, group 2, member BF (Stat6bf), transcript variant 1, mRNA (NM_023482)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023482	NC_023482
A.S1.P200990	Stat6bg	Mouse mammary STAT6, interferon gamma 2, group 2, member BG (Stat6bg), transcript variant 1, mRNA (NM_023483)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023483	NC_023483
A.S1.P201000	Stat6bh	Mouse mammary STAT6, interferon gamma 2, group 2, member BH (Stat6bh), transcript variant 1, mRNA (NM_023484)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023484	NC_023484
A.S1.P201010	Stat6bi	Mouse mammary STAT6, interferon gamma 2, group 2, member BI (Stat6bi), transcript variant 1, mRNA (NM_023485)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023485	NC_023485
A.S1.P201020	Stat6bj	Mouse mammary STAT6, interferon gamma 2, group 2, member BJ (Stat6bj), transcript variant 1, mRNA (NM_023486)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023486	NC_023486
A.S1.P201030	Stat6bk	Mouse mammary STAT6, interferon gamma 2, group 2, member BK (Stat6bk), transcript variant 1, mRNA (NM_023487)	4.60020	261.24714	F	4.169291	11.76426	10.32641	NC_023487	NC_023487
A.S1.P201040	Stat6bl	Mouse mammary STAT6, interferon gamma 2, group 2, member BL (Stat6bl), transcript variant 1, mRNA (NM_023488)	4.600							











