

Table 1: Differential genes compared between the drug observation group and the blank control group
(ascending order according to P value, top 10 genes)

No.	Gene Symbol	P Value	FC	Regulation	Description
1	Dnaja1	0.001232653	-2.170322279	down	Mus musculus DnaJ (Hsp40) homolog, subfamily A, member 1 (Dnaja1), transcript variant 1, mRNA [NM_001164671]
2	Npr3	0.001304244	-2.323016596	down	Mus musculus natriuretic peptide receptor 3 (Npr3), transcript variant 1, mRNA [NM_008728]
3	A530095I07Rik	0.001988619	2.404371473	up	Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530095I07 product:hypothetical protein, full insert sequence. [AK041266]
4	9530059O14Rik	0.003049135	-2.116055771	down	Mus musculus RIKEN cDNA 9530059O14 gene (9530059O14Rik), long non-coding RNA [NR_015610]
5	-	0.003250292	2.523059064	up	lincRNA:chr12:4554378-4560302 forward strand
6	Rbp7	0.003294843	-2.266956655	down	Mus musculus retinol binding protein 7, cellular (Rbp7), mRNA [NM_022020]
7	-	0.003717666	4.630331646	up	Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library, clone:9230028M13 product:hypothetical protein, full insert sequence. [AK136714]
8	Zfp251	0.003780673	-2.101182426	down	Mus musculus zinc finger protein 251 (Zfp251), mRNA [NM_001007568]
9	Arntl	0.004449411	-2.999290948	down	Mus musculus aryl hydrocarbon receptor nuclear translocator-like (Arntl), transcript variant 1, mRNA [NM_007489]
10	Olfr483	0.004474708	2.296174789	up	Mus musculus olfactory receptor 483 (Olfr483), mRNA [NM_146735]

Table 2: RT-PCR analysis of the expression of core signal transduction molecules (Δ^{Ct} value, $\bar{x} \pm S$)

Group	n	AGT	CCL20	CXCL9	CXCL10	HTR1B	GAPDH
DOG	9	0.131±0.023	0.046±0.006	0.060±0.007	0.056±0.009	0.152±0.011	19.694±0.263
BCG	9	0.207±0.032	0.076±0.005	0.093±0.012	0.082±0.012	0.204±0.015	19.734±0.203
p value		0.000	0.000	0.000	0.000	0.000	0.722

Table 3: Immunohistochemical analysis of the expression of core signal transduction molecules (OD value, $\bar{x} \pm S$)

Group	n	AGT	CCL20	CXCL9	CXCL10	HTR1B
DOG	3	519±25	535±6	614±48	538±20	543±24
BCG	3	552±34	577±14	663±10	582±23	571±23
p value		0.254	0.009	0.216	0.000	0.221

Table 4: Western blot detection of core signal transduction molecules

(Grayscale value, $\bar{x} \pm S$)

Group	n	AGT	CCL20	CXCL9	CXCL10	HTR1B	GAPDH
DOG	3	2124.13±128.22	2027.68±115.11	2243.46±108.20	2212.88±172.50	2786.96±313.51	3773.29±232.60
BCG	3	2818.04±119.81	2509.21±136.03	2832.04±458.56	2722.84±240.12	3306.60±181.10	3662.80±226.66
p value		0.002	0.009	0.15	0.04	0.068	0.587