

Table SI. Bioinformatics analysis results for CCR genes fromKEGG and the GO databaseinThe Database for Annotation, Visualization and Integrated Discovery.

Category	Term	Count	%	P-Value	-Log(P)	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_BP_DIRECT	GO:0006935~chemotaxis	9	0.737705	P<0.0001	20.04983929	CCR9, CCR8, CCR7, CCR5, CCR4, CCR1, CCR3, CCR2, CCR10	9	39	11,368	291.4872	3.66E-19	3.66E-19	8.20E-18
GOTERM_BP_DIRECT	GO:0006955~immune response	8	0.655738	P<0.0001	11.46225353	CCR9, CCR8, CCR7, CCR5, CCR4, CCR1, CCR2, CCR10	9	198	11,368	51.03479	1.41E-10	7.07E-11	3.17E-09
GOTERM_BP_DIRECT	GO:0006954~inflammatory response	6	0.491803	P<0.0001	7.211556754	CCR7, CCR5, CCR4, CCR1, CCR3, CCR2	9	187	11,368	40.52763	2.52E-06	8.40E-07	5.65E-05
GOTERM_BP_DIRECT	GO:0007204~positive regulation of cytosolic calcium ion concentration	3	0.245902	P<0.0001	3.248245804	CCR8, CCR1, CCR10	9	52	11,368	72.87179	0.02289	0.005772	0.518398
GOTERM_BP_DIRECT	GO:0048872~homeostasis of number of cells	2	0.163934	0.0056177166	2.250440173	CCR7, CCR4	9	8	11,368	315.7778	0.206241	0.045144	5.052289
GOTERM_BP_DIRECT	GO:0090026~positive regulation of monocyte chemotaxis	2	0.163934	0.0105105467	1.978374694	CCR1, CCR2	9	15	11,368	168.4148	0.351578	0.069657	9.265923
GOTERM_BP_DIRECT	GO:0007267~cell-cell signaling	2	0.163934	0.0489008690	1.310683423	CCR5, CCR1	9	71	11,368	35.58059	0.871986	0.25447	36.95964
GOTERM_CC_DIRECT	GO:0009897~external side of plasma membrane	4	0.327869	P<0.0001	4.364975587	CCR7, CCR5, CCR4, CCR1	9	120	12,833	47.52963	2.59E-04	2.59E-04	0.020651
GOTERM_CC_DIRECT	GO:0016021~integral component of membrane	9	0.737705	P<0.0001	4.260943074	CCR9, CCR8, CCR7, CCR5, CCR4, CCR1, CCR3, CCR2, CCR10	9	3,767	12,833	3.40669	3.29E-04	1.64E-04	0.026241
GOTERM_MF_DIRECT	GO:0016493~C-C chemokine receptor activity	9	0.737705	P<0.0001	24.63006933	CCR9, CCR8, CCR7, CCR5, CCR4, CCR1, CCR3, CCR2, CCR10	9	13	11,048	849.8462	9.38E-25	9.38E-25	8.95E-23
KEGG_PATHWAY	ssc04062:Chemokine signaling pathway	10	0.819672	P<0.0001	14.55368253	CCR9, CCR8, CCR7, CCR6, CCR5, CCR4, CCR1, CCR3, CCR2, CCR10	10	173	7,001	40.46821	1.39E-14	1.39E-14	1.21E-12
KEGG_PATHWAY	ssc04060:Cytokine-cytokine receptor interaction	10	0.819672	P<0.0001	13.95434633	CCR9, CCR8, CCR7, CCR6, CCR5, CCR4, CCR1, CCR3, CCR2, CCR10	10	201	7,001	34.83085	5.55E-14	2.78E-14	4.83E-12
KEGG_PATHWAY	ssc05203:Viral carcinogenesis	4	0.327869	0.0013773165	2.860966247	CCR8, CCR5, CCR4, CCR3	10	186	7,001	15.05591	0.006868	0.002294	0.597624

CCR, C-C motif chemokine receptor; KEGG,Kyoto Encyclopedia of Genes and Genomes; GO, Gene Ontology; BP, biological process; CC,cellular component; MF,molecular function;FDR, false discovery rate.