Supplementary Table 4: Ingenuity Canonical Pathways: Anakinra Vehicle Contrast			
Canonical Pathways	**p-value**	**Ratio**	**Genes**
24 h post-TBI			
Salvage Pathways of Pyrimidine Ribonucleotides	0.04	9.8E-03	UPP2
Role of NFAT in Regulation of the Immune Response	0.07	5.08E-03	AKAP5
Calcium Signaling	0.07	4.74E-03	AKAP5
cAMP-mediated signaling	0.09	4.52E-03	AKAP5
Protein Kinase A Signaling	0.16	2.44E-03	
72 h post-TBI			
PXR/RXR Activation	0.0002	3.45E-02	NR1I3,IGFBP1,CYP2B6
GADD45 Signaling	0.0005	9.09E-02	GADD45A,GADD45G
Retinol Biosynthesis	0.0026	3.28E-02	AADAC,Ces2g
Guanine and Guanosine Salvage I	0.0041	1.11E-01	HPRT1
ATM Signaling	0.0055	3.28E-02	GADD45A,GADD45G
Growth Hormone Signaling	0.0076	2.63E-02	SOCS2,ONECUT1
Adenine and Adenosine Salvage III	0.0081	6.67E-02	HPRT1
Prolactin Signaling	0.0091	2.5E-02	MYC,SOCS2
VDR/RXR Activation	0.0098	2.47E-02	GADD45A,IGFBP1
Xenobiotic Metabolism Signaling	0.0117	1.01E-02	Ces2g,NR1I3,CYP2B6
IGF-1 Signaling	0.0145	1.9E-02	SOCS2,IGFBP1
p38 MAPK Signaling	0.0200	1.71E-02	MYC,IL1RN
Ubiquinol-10 Biosynthesis (Eukaryotic)	0.0219	3.45E-02	ECHDC1
Aryl Hydrocarbon Receptor Signaling	0.0257	1.24E-02	MYC,Rarb
Fatty Acid Activation	0.0257	5.26E-02	ACSL3
Oxidative Ethanol Degradation III	0.0257	2.5E-02	ACSL3
Ethanol Degradation IV	0.0302	3.45E-02	ACSL3
Mitochondrial L-carnitine Shuttle Pathway	0.0339	4.55E-02	ACSL3
γ-linolenate Biosynthesis II (Animals)	0.0355	4E-02	ACSL3
Acute Phase Response Signaling	0.0389	1.12E-02	IL1RN,SOCS2
Estrogen-mediated S-phase Entry	0.0417	3.57E-02	MYC
Triacylglycerol Degradation	0.0490	3.03E-02	AADAC
Ethanol Degradation II	0.0490	2.33E-02	ACSL3
Fatty Acid β-oxidation I	0.0550	2.22E-02	ACSL3
Role of JAK2 in Hormone-like Cytokine Signaling	0.0603	2.78E-02	SOCS2
IL-9 Signaling	0.0631	2.5E-02	SOCS2
Stearate Biosynthesis I (Animals)	0.0661	2E-02	ACSL3
Role of Cytokines in Mediating Communication between Immune Cells	0.0708	1.82E-02	IL1RN

Transcriptional Regulatory Network in Embryonic Stem Cells	0.0741	2.5E-02	ONECUT1
Cell Cycle: G2/M DNA Damage Checkpoint Regulation	0.0741	2.08E-02	GADD45A
Retinoic acid Mediated Apoptosis Signaling	0.0776	1.45E-02	Rarb
Bupropion Degradation	0.0776	1.92E-02	CYP2B6
Acetone Degradation I (to Methylglyoxal)	0.0794	1.82E-02	CYP2B6
Heparan Sulfate Biosynthesis (Late Stages)	0.0813	1.64E-02	AADAC
Estrogen Biosynthesis	0.1000	1.47E-02	CYP2B6
Cell Cycle: G1/S Checkpoint Regulation	0.1000	1.52E-02	MYC
Thrombopoietin Signaling	0.1038	1.59E-02	MYC
ErbB2-ErbB3 Signaling	0.1038	1.67E-02	MYC
Myc Mediated Apoptosis Signaling	0.1074	1.67E-02	MYC
Nicotine Degradation III	0.1074	1.1E-02	CYP2B6
Melatonin Degradation I	0.1074	1.2E-02	CYP2B6
ERK5 Signaling	0.1109	1.54E-02	MYC
T Helper Cell Differentiation	0.1146	1.39E-02	BCL6
Communication between Innate and Adaptive Immune Cells	0.1164	9.17E-03	IL1RN
Nicotine Degradation II	0.1199	9.71E-03	CYP2B6
IL-10 Signaling	0.1253	1.28E-02	IL1RN
JAK/Stat Signaling	0.1253	1.43E-02	SOCS2
FXR/RXR Activation	0.1393	9.9E-03	IL1RN
PDGF Signaling	0.1413	1.18E-02	MYC
Neuregulin Signaling	0.1535	9.8E-03	MYC
Apoptosis Signaling	0.1549	1.05E-02	BCL2L11
SAPK/JNK Signaling	0.1603	9.8E-03	GADD45A
Mouse Embryonic Stem Cell Pluripotency	0.1652	1.01E-02	MYC
PPAR Signaling	0.1671	9.52E-03	IL1RN
Cholecystokinin/Gastrin-mediated Signaling	0.1738	9.43E-03	IL1RN
LXR/RXR Activation	0.1871	7.35E-03	IL1RN
Estrogen Receptor Signaling	0.2037	7.35E-03	IGFBP1
IL-6 Signaling	0.2037	8.06E-03	IL1RN
NF-κB Signaling	0.2541	5.71E-03	IL1RN
B Cell Receptor Signaling	0.2553	6.06E-03	BCL6
RAR Activation	0.2793	5.29E-03	Rarb
ILK Signaling	0.2825	5.21E-03	MYC
Glucocorticoid Receptor Signaling	0.3846	3.4E-03	IL1RN
7 days post-TBI			
T Helper Cell Differentiation	0.0005	4.17E-02	HLA-DMA,FCER1G,BCL6
Isoleucine Degradation I	0.0005	6.67E-02	ACAT2,SDS

Acetyl-CoA Biosynthesis III (from Citrate)	0.0026	1.25E-01	ACLY
Epoxysqualene Biosynthesis	0.0051	1.11E-01	SQLE
Nur77 Signaling in T Lymphocytes	0.0055	3.17E-02	HLA-DMA,FCER1G
Cytotoxic T Lymphocyte-mediated Apoptosis of Target Cells	0.0065	2.35E-02	HLA-DMA,FCER1G
Calcium-induced T Lymphocyte Apoptosis	0.0076	2.86E-02	HLA-DMA,FCER1G
OX40 Signaling Pathway	0.0076	2.13E-02	HLA-DMA,FCER1G
Glutamate Degradation II	0.0078	1E-01	GOT1
L-cysteine Degradation I	0.0102	9.09E-02	GOT1
Growth Hormone Signaling	0.0123	2.63E-02	SOCS2,ONECUT1
CTLA4 Signaling in Cytotoxic T Lymphocytes	0.0170	2.04E-02	HLA-DMA,FCER1G
Aspartate Degradation II	0.0178	7.14E-02	GOT1
Ketolysis	0.0204	5.56E-02	ACAT2
iCOS-iCOSL Signaling in T Helper Cells	0.0240	1.63E-02	HLA-DMA,FCER1G
Glutaryl-CoA Degradation	0.0257	4.17E-02	ACAT2
Ketogenesis	0.0257	4.76E-02	ACAT2
Mevalonate Pathway I	0.0257	3.57E-02	ACAT2
Glycine Betaine Degradation	0.0257	4.35E-02	SDS
CD28 Signaling in T Helper Cells	0.0295	1.52E-02	HLA-DMA,FCER1G
PKCθ Signaling in T Lymphocytes	0.0295	1.4E-02	HLA-DMA,FCER1G
Lipid Antigen Presentation by CD1	0.0309	4.35E-02	FCER1G
Bile Acid Biosynthesis, Neutral Pathway	0.0309	1.72E-02	CYP7A1
Cholesterol Biosynthesis I	0.0331	2.5E-02	SQLE
Phenylalanine Degradation IV (Mammalian, via Side Chain)	0.0331	2.56E-02	GOT1
Cholesterol Biosynthesis II (via 24,25-dihydrolanosterol)	0.0331	2.5E-02	SQLE
Cholesterol Biosynthesis III (via Desmosterol)	0.0331	2.5E-02	SQLE
Cdc42 Signaling	0.0363	1.13E-02	HLA-DMA,FCER1G
Valine Degradation I	0.0407	2.86E-02	SDS
Insulin Receptor Signaling	0.0407	1.41E-02	SGK1,ACLY
B Cell Development	0.0501	3.03E-02	HLA-DMA
Pyrimidine Ribonucleotides Interconversion	0.0501	2.78E-02	CTPS1
Role of NFAT in Regulation of the Immune Response	0.0562	1.02E-02	HLA-DMA,FCER1G
Hematopoiesis from Pluripotent Stem Cells	0.0646	1.59E-02	FCER1G
Antigen Presentation Pathway	0.0676	2.5E-02	HLA-DMA
Fatty Acid β-oxidation I	0.0708	2.22E-02	SDS
Role of JAK2 in Hormone-like Cytokine Signaling	0.0776	2.78E-02	SOCS2
IL-9 Signaling	0.0794	2.5E-02	SOCS2
Netrin Signaling	0.0891	1.75E-02	ABLIM3
cAMP-mediated signaling	0.0891	9.05E-03	DUSP1,DUSP6
Transcriptional Regulatory Network in Embryonic Stem Cells	0.0933	2.5E-02	ONECUT1

Retinol Biosynthesis	0.0933	1.64E-02	Ces2g
G-Protein Coupled Receptor Signaling	0.1135	5.69E-03	DUSP1,DUSP6,RGS16
Glucocorticoid Receptor Signaling	0.1256	6.8E-03	DUSP1,SGK1
PXR/RXR Activation	0.1330	1.15E-02	CYP7A1
ERK5 Signaling	0.1396	1.54E-02	SGK1
Pyridoxal 5'-phosphate Salvage Pathway	0.1396	1.39E-02	SGK1
CCR5 Signaling in Macrophages	0.1419	1.06E-02	FCER1G
Communication between Innate and Adaptive Immune Cells	0.1466	9.17E-03	FCER1G
JAK/Stat Signaling	0.1574	1.43E-02	SOCS2
IL-4 Signaling	0.1574	1.27E-02	HLA-DMA
Prolactin Signaling	0.1706	1.25E-02	SOCS2
FXR/RXR Activation	0.1750	9.9E-03	CYP7A1
Salvage Pathways of Pyrimidine Ribonucleotides	0.1750	9.8E-03	SGK1
TR/RXR Activation	0.1791	1.04E-02	CYP7A1
SAPK/JNK Signaling	0.2004	9.8E-03	FCER1G
IGF-1 Signaling	0.2109	9.52E-03	SOCS2
Natural Killer Cell Signaling	0.2128	8.62E-03	FCER1G
Fc Epsilon RI Signaling	0.2312	8.55E-03	FCER1G
Protein Kinase A Signaling	0.2328	4.89E-03	DUSP1,DUSP6
LXR/RXR Activation	0.2328	7.35E-03	CYP7A1
p38 MAPK Signaling	0.2449	8.55E-03	DUSP1
NF-κB Signaling	0.3126	5.71E-03	FCER1G
B Cell Receptor Signaling	0.3148	6.06E-03	BCL6
EIF2 Signaling	0.3236	4.95E-03	RPL32
Acute Phase Response Signaling	0.3342	5.62E-03	SOCS2
RAR Activation	0.3428	5.29E-03	DUSP1
Phospholipase C Signaling	0.4102	3.85E-03	FCER1G
Xenobiotic Metabolism Signaling	0.4634	3.36E-03	Ces2g
Axonal Guidance Signaling	0.6138	2.27E-03	ABLIM3