**Table 3. Genes of Interest over Time** Table showing the significant fold changes of selected genes from complicated and uncomplicated patients at day 7 and day 14 after severe blunt traumatic injury in individual leukocyte cell subpopulations (T-cell, monocyte, and neutrophils (PMN)) as compared to healthy human controls (p<0.001).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Day 7** | | | | **Day 14** | | |
| **Gene** | **Complicated Patients** | **Uncomplicated**  **Patients** | | **Gene** | **Complicated Patients** | **Uncomplicated Patients** |
| **Chemotaxis** | | | | | | |
| **PMN** | | | | **PMN** | | |
| *CCL3* | **-1.5** | **-1.1** | |  |  |  |
| **Monocyte** | | | | **Monocyte** | | |
|  |  |  | | *CXCL10* | **-1.8** | **-1.7** |
| **T-Cell** | | | | **T-Cell** | | |
| *GNLY* | **-1.6** | **-1.4** | |  |  |  |
| **Inflammation Related Peptides/Proteins** | | | | | | |
| **PMN** | | | | **PMN** | | |
| *MMP8* | **19.9** | **8.6** | | *MMP8* | **12.4** | **12.9** |
| *HP* | **9.9** | **4.8** | | *CCR3* | **-1.7** | **-2.3** |
| *CD177* | **23** | **7** | |  |  |  |
| *HERC5* | **-7.1** | **-3.1** | |  |  |  |
| **Monocyte** | | | | **Monocyte** | | |
| *MMP8* | **5.7** | **1.5** | | *MMP9* | **3.1** | **2.4** |
| *HP* | **4.5** | **2.7** | | *CCR2* | **1.9** | **-1.1** |
| *HERC5* | **-2.2** | **-1.5** | |  |  |  |
| **T-Cell** | | | | **T-Cell** | | |
|  |  |  | | *MMP8* | **2.7** | **1.5** |
| **Pathogen-associated Molecular Pattern (PAMP) Detection** | | | | | | |
| **PMN** | | | | **PMN** | | |
| *TLR1* | **-2.2** | | **-1.6** |  |  |  |
| **Monocyte** | | | | **Monocyte** | | |
| *TLR7* | **-2.2** | | **-1.6** | *TLR7* | **-1.8** | **-1.7** |
| **T-Cell** | | | | **T-Cell** | | |
| *TLR3* | **-1.5** | | **-1.4** |  |  |  |
| **Immune Related Genes/Antigen Presentation/Co-Stimulatory Molecules** | | | | | | |
| **PMN** | | | | **PMN** | | |
| *PMAIP1* | **-3** | | **-1.8** | *PMAIP1* | -1.5 | -2.2 |
| *HLA-DMB* | **-1.5** | | **-1.2** |  |  |  |
| *HLA-DRA* | **-1.8** | | **-1** |  |  |  |
| *FLT3* | **1.3** | | **1.2** | *FLT3* | **1.2** | **1.3** |
| *CD86* | **-1.7** | | **-1.4** | *BTLA* | **-1** | **-1.3** |
| *CD24* | **4.6** | | **3.5** | *IFIT1* | **-1.6** | **-2.4** |
| *CEACAMB* | **-1.9** | | **-1.4** | *IL1R1* | **1.5** | **1.5** |
| *LCN2* | **3.7** | | **2.4** | *LCN2* | **3** | **3.3** |
| *LTF* | **3.9** | | **2.7** | *LTF* | **3.6** | **3.9** |
| *LRG1* | **1.4** | | **1.2** | *LRG1* | **1** | **1.2** |
| *VNN1* | **8.9** | | **4** | *VNN1* | **2.8** | **3.6** |
| **Monocyte** | | | | **Monocyte** | | |
| *HLA-DMA* | **-2.8** | | **-1.7** | *CD24* | **1.9** | **1.3** |
| *HLA-DMB* | **-3.2** | | **-2** | *HLA-DMB* | **-2.1** | **-1.9** |
| *HLA-DOA* | **-1.8** | | **-1.6** | *HLA-DOA* | **-1.8** | **-1.5** |
| *HLA-DPA1* | **-3.6** | | **-2.2** | *HLA-DAPA1* | **-2.3** | **-2** |
| *HLA-DPB1* | **-3.7** | | **-2.4** | *HLA-DPB1* | **-2.6** | **-1.9** |
| *HLA-DQA* | **-2.9** | | **-2.1** |  |  |  |
| *HLA-DQB* | **-1.3** | | **-1.1** |  |  |  |
| *HLA-DRA* | **-3.1** | | **-2** | *HLA-DRA* | **-2.9** | **-1.7** |
| *HLA-DRB* | **-1.9** | | **-1.5** |  |  |  |
| *CD86* | **-1.7** | | **-1.4** |  |  |  |
| *FLT3* | **1.7** | | **-1.2** |  |  |  |
| *CD24* | **2.2** | | **1.3** |  |  |  |
| *CEACAM8* | **1.3** | | **-1** | *CEACAM8* | **2.1** | **1.2** |
| *ILI44* | **-2.2** | | **-1.5** |  |  |  |
| *IFIT1* | **-2.9** | | **-1.5** |  |  |  |
| *IL1R1* | **1.6** | | **1.2** |  |  |  |
| *LCN2* | **1.7** | | **1.6** | *LCN2* | **1.8** | **1.7** |
| *LTF* | **1.9** | | **1.1** |  |  |  |
| *LARG1* | **1.5** | | **1.3** |  |  |  |
| *VNN1* | **3.3** | | **1.8** | *VNN1* | **2.3** | **1.5** |
| **T-Cell** | | | | **T-Cell** | | |
| *IL4* | **-1.8** | | **-1.4** | *CD24* | **1.6** | **1** |
| *FOXP3* | **1.5** | | **1.4** |  |  |  |
| *ILIT1* | **-1.8** | | **-1.4** |  |  |  |
| *IFIT2* | **-1.6** | | **-1.3** |  |  |  |
| *IFIT3* | **-1.3** | | **-1.2** |  |  |  |
| *LCN2* | **2.5** | | **1.8** |  |  |  |
| *LTF* | **1.9** | | **1.3** |  |  |  |
| *LRG1* | **1.2** | | **1.1** |  |  |  |
| *VNN1* | **2.1** | | **1.1** |  |  |  |
| **Up Regulation of Myeloid Derived Suppressor Cells (MDSCs)** | | | | | | |
| **PMN** | | | | **PMN** | | |
| *CSF1* | **-1.1** | | **1.2** | *ARG1* | **3.3** | **4.9** |
| *HGF* | **2.6** | | **1.3** | *IL4R* | **1.7** | **1.3** |
| **Monocyte** | | | | **Monocyte** | | |
| *ARG1* | **4.8** | | **2.5** | *ARG1* | **3.3** | **2.4** |
| *IL4R* | **1.7** | | **1.4** |  |  |  |
| **T-Cell** | | | | **T-Cell** | | |
| *IL1R2* | **-1.8** | | **-1.4** |  |  |  |