

**Supplementary Table S3. Classification of the main genes related to inflammation that are differentially expressed between inflammatory HCA and non-tumour livers.**

Data are expressed as the mean-fold difference in gene expression in inflammatory HCA (IHCA) relative to non-tumour livers (NTL). \*, \*\*, \*\*\* difference between groups at  $P < 0.05$ ; 0.01 and 0.001 respectively. Abbreviations: ns: not significant; nd: not done; na: not analysed.

Gene Symbol	Gene Name	Microarray data		qRT-PCR validation	
		Fold change ratio IHCA (n=4)/NTL (n=4)	P-value	Fold change ratio IHCA (n=14)/NTL (n=6)	P-value
<b>Acute phase proteins</b>					
SAA1	Serum amyloid A1	33.1	1.20E-04	nd	
SAA2	Serum amyloid A2	na	na	99.0	***
SPINK1	Serine protease inhibitor, Kazal type 1	17.4	4.80E-04	75.2	***
PLA2G2A	Phospholipase A2, group IIA (platelets, synovial fluid)	15.2	1.00E-06	nd	
VWF	Von Willebrand factor	8.9	3.40E-04	nd	
CRP	C-reactive protein, pentraxin-related	7.3	5.60E-04	21.6	***
LBP	Lipopolysaccharide binding protein	3.7	1.50E-04	nd	
SLPI	Secretory leukocyte protease inhibitor (antileukoproteinase)	2.9	3.50E-05	nd	
GLRX	Glutaredoxin (thioltransferase)	2.3	1.40E-04	nd	
IL1RN	Interleukin 1 receptor antagonist	2.1	1.80E-06	nd	
FGB	Fibrinogen, B beta polypeptide	1.1	ns	1.8	**
C4A	Complement component 4B, telomeric	1.6	1.10E-06	nd	
TTR	Transthyretin (prealbumin, amyloidosis type I)	-2.0	1.20E-04	nd	
IGF1	Insulin-like growth factor 1 (somatomedin C)	-2.4	8.70E-04	nd	
ALB	Albumin	-5.7	3.00E-11	nd	
<b>MHC class I</b>					
HLA-A	Major histocompatibility complex, class I, A	2.1	5.8E-04	nd	
HLA-B	Major histocompatibility complex, class I, B	3.0	6.3E-04	nd	
HLA-C	Major histocompatibility complex, class I, C	2.6	9.4E-04	nd	
HLA-E	Major histocompatibility complex, class I, E	2.1	4.9E-06	2.6	***
HLA-F	Major histocompatibility complex, class I, F	2.7	5.0E-04	nd	
HLA-G	HLA-G histocompatibility antigen, class I, G	2.8	8.9E-04	nd	
<b>MHC class II</b>					
HLA-DMA	Major histocompatibility complex, class II, DM alpha	2.6	8.2E-04	nd	
HLA-DPA1	Major histocompatibility complex, class II, DP alpha 1	2.8	6.3E-08	nd	
HLA-DQB1	Major histocompatibility complex, class II, DQ beta 1	2.5	2.3E-06	nd	
HLA-DRA	Major histocompatibility complex, class II, DR alpha	2.2	1.4E-07	4.1	***
HLA-DRB1	Major histocompatibility complex, class II, DR beta 4	2.3	2.8E-06	nd	
<b>Antigen processing</b>					
TAP1	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	4.6	7.3E-04	4.1	**
PSMB8	Proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional protease 7)	2.2	7.2E-05	2.6	**
PSMB9	Proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2)	2.2	8.8E-04	3.5	**
CTSS	Cathepsin S	2.4	8.1E-07	nd	
<b>Cytokine and chemokines</b>					
CCL20	Chemokine (C-C motif) ligand 20	219.8	3.7E-04	nd	
NK4	Interleukin 32	16.8	1.0E-04	nd	
EPO	Erythropoietin	6.8	2.1E-07	nd	
TNFSF14	Tumor necrosis factor (ligand) superfamily, member 14	4.3	5.9E-04	nd	
PBEF1	Pre-B-cell colony enhancing factor 1	2.5	9.8E-04	nd	
<b>Chemokine and toll-like receptors</b>					
XCR1	Chemokine (C motif) receptor 1	3.0	1.4E-11	nd	
TLR2	Toll-like receptor 2	2.5	4.8E-04	nd	
CCR1	Chemokine (C-C motif) receptor 1	2.3	5.0E-06	nd	
<b>Cytokine receptors</b>					
IFNGR1	Interferon gamma receptor 1	2.6	3.0E-04	3.5	***
IFNGR2	Interferon gamma receptor 2 (interferon gamma transducer 1)	1.9	4.6E-04	2.8	***
IL4R	Interleukin 4 receptor	2.1	2.7E-05	nd	
TNFRSF11B	Tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	2.0	5.8E-04	nd	
IL1RAP	Interleukin 1 receptor accessory protein	-2.3	2.7E-06	nd	
SIGIRR	Single Ig IL-1R-related molecule	-2.8	8.7E-04	nd	
EPOR	Erythropoietin receptor	-5.9	2.2E-06	nd	
<b>Transcription factors related to inflammation</b>					
IFI16	Interferon, gamma-inducible protein 16	4.2	3.2E-04	nd	
STAT1	Signal transducer and activator of transcription 1, 91kDa	2.1	ns	4.5	***
STAT2	Signal transducer and activator of transcription 2, 113kDa	1.2	ns	2.0	*
STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)	2.8	2.8E-04	2.1	***
HIF1A	Hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	2.5	6.8E-04	3.5	***
ISGF3G	Interferon-stimulated transcription factor 3, gamma 48kDa	2.2	7.4E-07	2.1	**
NFKB2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	2.1	1.0E-04	2.2	**
IRF7	Interferon regulatory factor 7	2.0	2.3E-06	2.8	**
HCLS1	Hematopoietic cell-specific Lyn substrate 1	1.9	1.1E-05	nd	
<b>Other proteins involved in signal transduction related to inflammation</b>					
JAK2	Janus kinase 2 (a protein tyrosine kinase)	1.1	ns	2.0	**
GOLPH2	Golgi phosphoprotein 2	129.0	3.1E-05	nd	
SOCS1	Suppressor of cytokine signaling 1	9.8	2.8E-04	17.4	***
SOCS3	Suppressor of cytokine signaling 3	1.5	ns	2.1	*
BIRC3	Baculoviral IAP repeat-containing 3	9.1	2.7E-05	7.6	***
BCL2A1	BCL2-related protein A1	5.9	4.3E-04	17.2	***
TNFAIP8	Tumor necrosis factor, alpha-induced protein 8	4.1	5.4E-04	nd	
GBP2	Guanylate binding protein 2, interferon-inducible	3.8	1.2E-04	nd	
PLA2G4C	Phospholipase A2, group IVC (cytosolic, calcium-independent)	3.4	3.4E-07	nd	
C5R1	Complement component 5 receptor 1 (C5a ligand)	3.1	9.0E-04	nd	
PTGES2	Prostaglandin E synthase 2	2.3	1.3E-09	nd	
IFITM1	Interferon induced transmembrane protein 1 (9-27)	2.2	1.1E-09	nd	
TNFAIP3	Tumor necrosis factor, alpha-induced protein 3	2.2	6.2E-04	nd	
IFI35	Interferon-induced protein 35	-2.0	7.5E-08	nd	
SOCS2	Suppressor of cytokine signaling 2	-4.3	1.9E-12	nd	