

Inflammatory landscape in Xeroderma pigmentosum patients with cutaneous melanoma

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<u>Gene ID</u>	<u>Gene Description</u>	<u>SP-Mel</u>		<u>XP-Mel</u>	
		Fold change	p-value	Fold change	p-value
<i>LTC4S</i>	Leukotriene C4 Synthase	0.60	0.819	0.24	0.352
<i>BDKRBI</i>	Bradykinin Receptor B1	1.03	0.601	0.48	0.442
<i>C2</i>	Complement C2	2.66	0.311	1.50	0.578
<i>C4A</i>	Complement C4a	3.96	0.149	0.91	0.665
<i>C4B</i>	Complement C4b	10.24	0.170	1.30	0.686

<i>C6</i>	Complement C6	0.14	0.375	1.14	0.798
<i>C9</i>	Complement C9	0.69	0.745	0.14	0.335
<i>CCL2</i>	chemokine ligand 2	2.10	0.229	1.02	0.921
<i>CCL3</i>	chemokine ligand 3	3.94	0.374	1.20	0.928
<i>CCL4</i>	Chemokine (C-C motif) ligand 4	2.29	0.429	1.22	0.858
<i>CFB</i>	Complement factor B	4.13	0.383	2.43	0.539
<i>CP</i>	Ceruloplasmin (ferroxidase)	0.30	0.247	0.56	0.323
<i>CRP</i>	C-reactive protein (CRP)	1.53	0.651	0.14	0.339
<i>CSF1</i>	Colony stimulating factor 1 (macrophage)	2.19	0.426	1.18	0.652
<i>CSF2</i>	Colony stimulating factor 2 (granulocyte-macrophage)	2.50	0.440	1.08	0.761
<i>CSF3</i>	Colony stimulating factor 3 (granulocyte)	2.36	0.429	0.39	0.441
<i>DRD4</i>	Dopamine Receptor D4	1.47	0.497	0.47	0.463
<i>F11</i>	Coagulation factor XI	1.29	0.533	0.10	0.361
<i>F12</i>	Coagulation factor XII (Hageman factor)	1.18	0.550	0.48	0.446
<i>F8</i>	Coagulation factor VIII, procoagulant component	1.51	0.721	0.37	0.390
<i>HP</i>	Haptoglobin	3.78	0.621	3.35	0.504
<i>HRH2</i>	Histamine receptor H2	7.19	0.164	0.37	0.351
<i>HRH3</i>	Histamine receptor H3	2.40	0.454	0.47	0.524

<i>HRH4</i>	Histamine receptor H4	0.72	0.528	0.12	0.345
<i>IFNA1</i>	Interferon, alpha 1	0.38	0.600	0.08	0.349
<i>IFNA10</i>	Interferon, alpha 10	2.69	0.613	0.55	0.397
<i>IFNA2</i>	Interferon, alpha 2	0.51	0.664	0.15	0.328
<i>IFNA14</i>	Interferon, alpha 14	0.36	0.882	0.12	0.324
<i>IFNA16</i>	Interferon, alpha 16	0.40	0.688	0.11	0.376
<i>IFNA17</i>	Interferon, alpha 17	0.11	0.678	0.31	0.403
<i>IFNA21</i>	Interferon, alpha 21	0.57	0.566	0.10	0.349
<i>IFNA4</i>	Interferon, alpha 4	0.40	0.861	0.12	0.360
<i>IFNA5</i>	Interferon, alpha 5	1.18	0.559	0.18	0.341
<i>IFNA6</i>	Interferon, alpha 6	1.02	0.910	0.12	0.345
<i>IFNA7</i>	Interferon, alpha 7	1.40	0.484	0.08	0.345
<i>IFNA8</i>	Interferon, alpha 8	0.57	0.628	0.14	0.364
<i>IFNB1</i>	Interferon, beta 1, fibroblast	0.62	0.444	0.41	0.554
<i>IFNG</i>	Interferon, gamma	1.03	0.725	0.33	0.389
<i>IFNW1</i>	Interferon, omega 1	2.22	0.895	0.50	0.438
<i>IL-10</i>	Interleukin 10	0.96	0.490	0.41	0.382
<i>IL-1B</i>	Interleukin 1, beta	1.32	0.706	2.25	0.335

<i>IL-8</i>	Interleukin 8	9.99	0.378	8.42	0.388
<i>KLK1</i>	Kallikrein 1	0.27	0.747	0.27	0.371
<i>KLK10</i>	Kallikrein-related peptidase 10	1.23	0.627	2.03	0.102
<i>KLK11</i>	Kallikrein-related peptidase 1A	0.42	0.157	1.00	0.904
<i>KLK12</i>	Kallikrein-related peptidase 12	3.47	0.419	0.38	0.463
<i>KLK13</i>	Kallikrein-related peptidase 13	0.66	0.657	2.49	0.111
<i>KLK14</i>	Kallikrein-related peptidase 14	0.61	0.480	0.47	0.375
<i>KLK15</i>	Kallikrein-related peptidase 15	4.54	0.369	1.41	0.642
<i>KLK2</i>	Kallikrein-related peptidase 2	1.12	0.455	0.22	0.364
<i>KLK5</i>	Kallikrein-related peptidase 5	1.41	0.364	0.50	0.364
<i>KLK6</i>	Kallikrein-related peptidase 6	0.70	0.710	5.00	0.032
<i>LTB4R2</i>	Leukotriene B4 receptor 2	1.01	0.627	0.46	0.418
<i>PAFAH1B2</i>	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 2	2.78	0.242	1.26	0.548
<i>PAFAH1B3</i>	Platelet-activating factor acetylhydrolase 1b, catalytic subunit 3	3.08	0.391	1.49	0.768
<i>PAFAH2</i>	Platelet-activating factor acetylhydrolase 2	0.81	0.528	2.45	0.892
<i>PDF</i>	Peptide deformylase	0.65	0.753	0.45	0.272
<i>PDGFA</i>	Platelet-derived growth factor alpha polypeptide	1.14	0.994	0.40	0.307
<i>PDGFB</i>	platelet derived growth factor subunit B	2.43	0.502	0.85	0.585

<i>PTGS1</i>	Prostaglandin-endoperoxide synthase 1	0.95	0.652	4.51	0.578
<i>PTGS2</i>	Prostaglandin-endoperoxide synthase 2	2.44	0.375	1.30	0.515
<i>TGFA</i>	Transforming growth factor, alpha	5.24	0.309	0.85	0.595
<i>TGFB1</i>	Transforming growth factor, beta 1	2.31	0.832	2.90	0.505
<i>TNF</i>	Tumor necrosis factor	2.56	0.485	0.62	0.600

Supplementary Table S1 : Differential gene expression of inflammatory genes by PCR array (Threshold set as 0,5>fold change>2)

	1	2	3	4	5	6	7	8	9	10	11	12
A	HRH1	HRH2	HRH3	HRH4	KLK1	KLK2	KLK3	KLK4	KLK5	KLK6	KLK7	KLK8
B	KLK9	KLK10	KLK11	KLK12	KLK13	KLK14	KLK15	BDKRB1	BDKRB2	LTB4R	LTB4R2	LTC4S
C	PTGS1	PTGS2	CCL2	CCL3	CCL4	IL-8	IL-1A	IL-1B	IL-6	IL-10	IFNA1	IFNA2
D	IFNA4	IFNA5	IFNA6	IFNA7	IFNA8	IFNA10	IFNA14	IFNA16	IFNA17	IFNA21	IFNAR1	IFNAR2
E	IFNB1	IFNG	IFNW1	TNF	PDGFA	PDGFB	PDGFC	PDGFD	TGFA	TGFB1	TGFB2	TGFB3
F	IGF1	IGF2	CSF2	CSF3	CSF1	C2	C3	C4A	C4B	C6	C9	PAFAH1B1
G	PAFAH1B2	PAFAH1B3	PAFAH2	CRP	CP	CFB	F8	F11	F12	DRD4	PDF	HP
H	PPIA	ACTB	TBP	B2M	RPLP0	HPRT1	TFRC	GUS	POS CONT	POS CONT	NEG CONT	NEG CONT

Supplementary Table S2: AnyGenes Human inflammatory signaling pathway layout; genes within the same color belonging to the same pathway or family