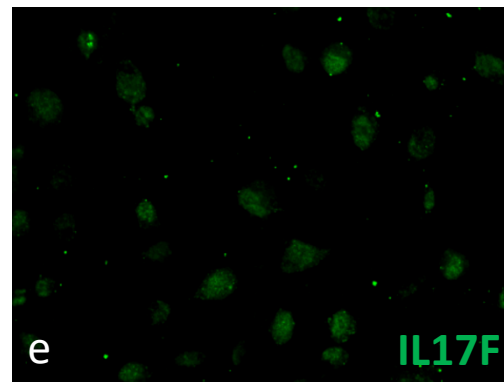
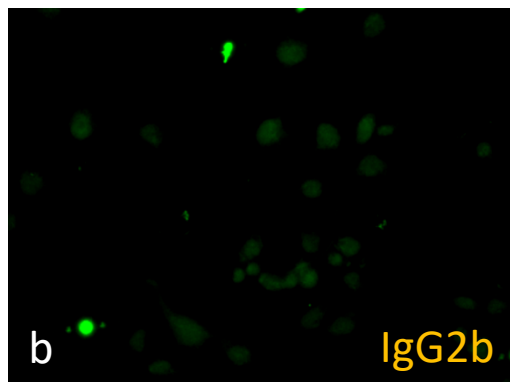
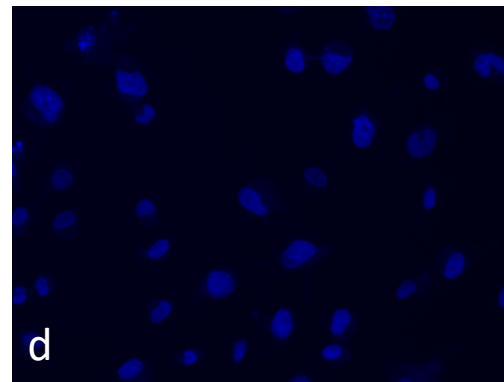
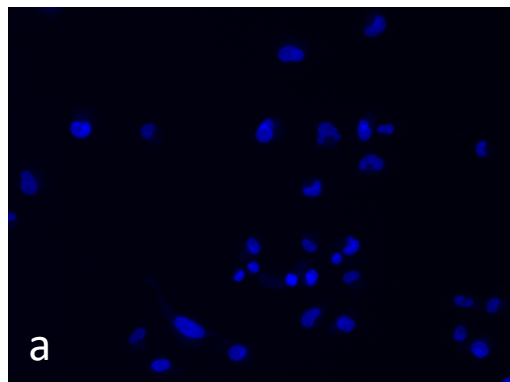


# Controls

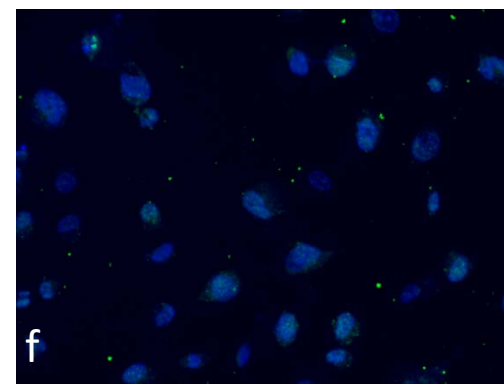
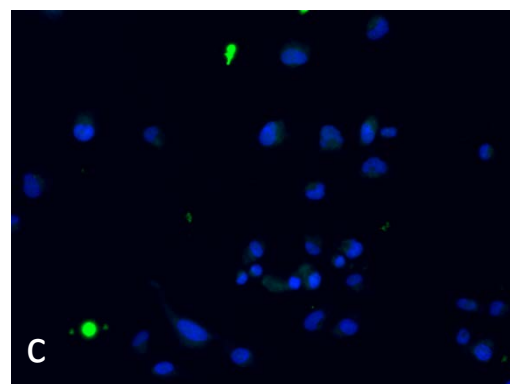
*Isotype control*

*24 h culture control*

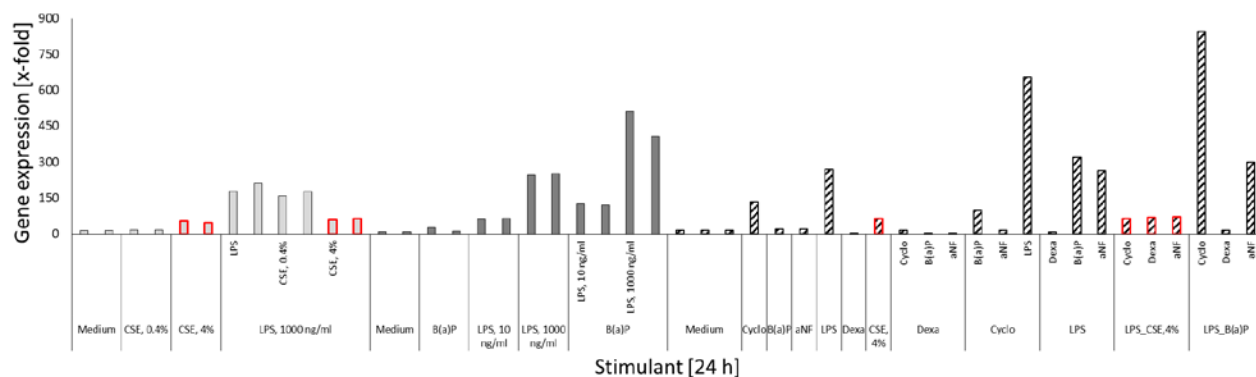
Hoechst 33342



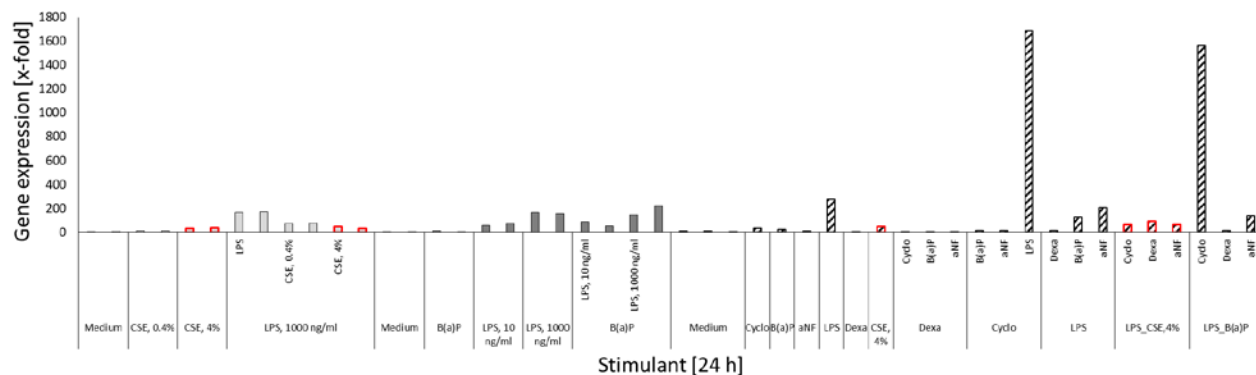
Overlay



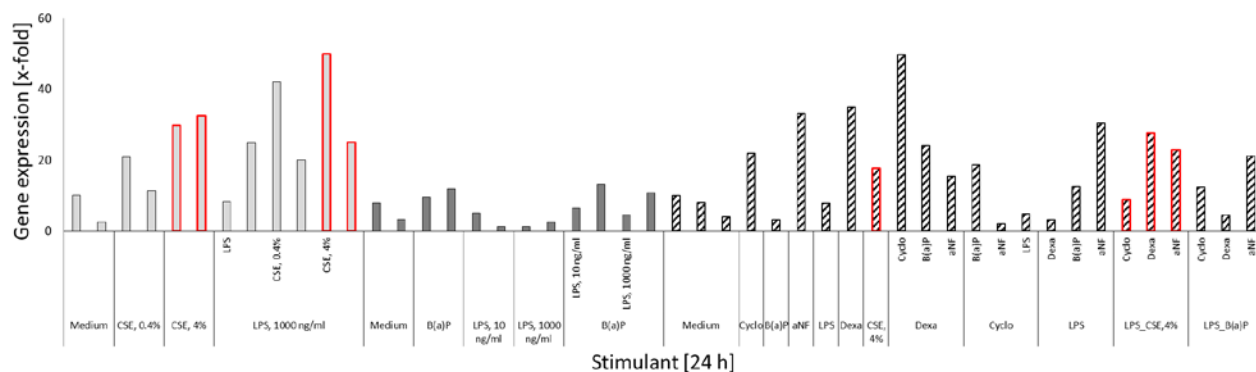
## IL1B



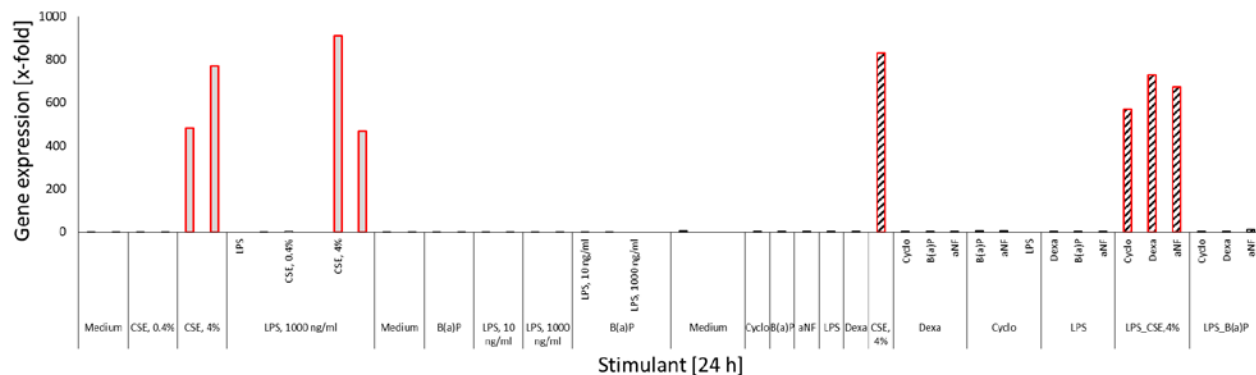
## TNFA



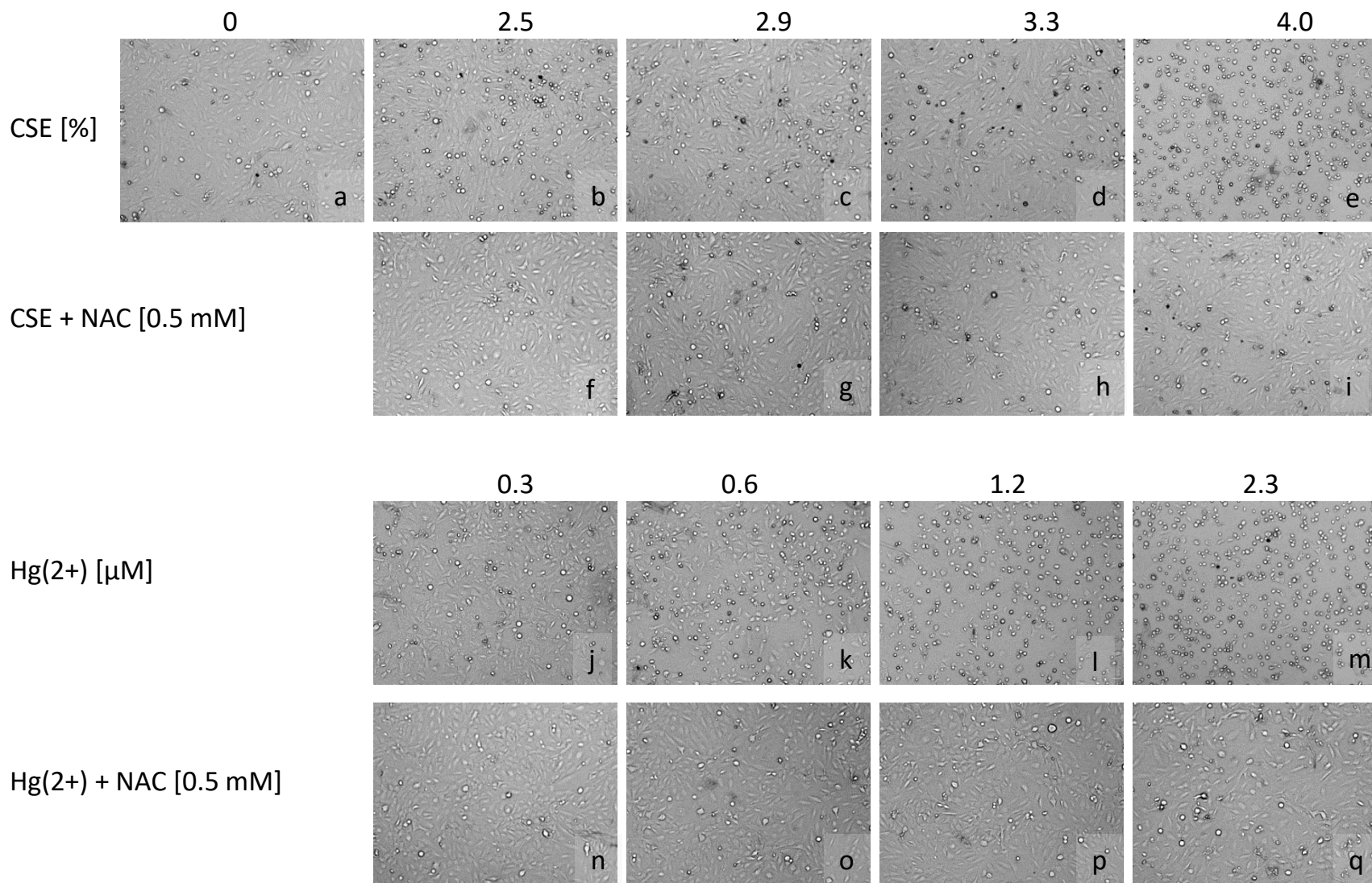
## IL17A



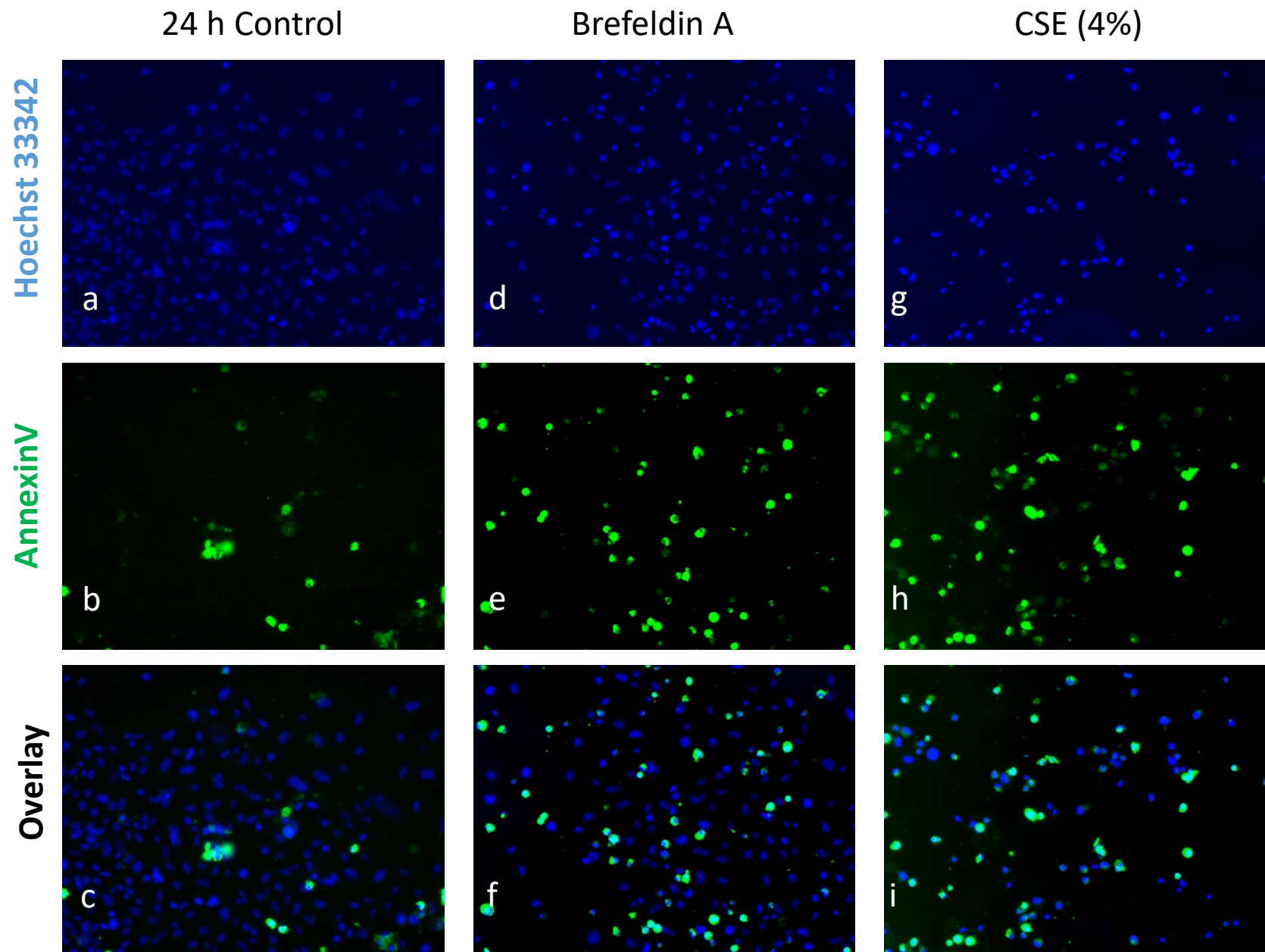
## IL17F



Stimulants of 3 independent exposure experiments (□, ■, ▨):  
 Cyclo, cycloheximide (*translation inhibitor*)  
 Dexa, dexamethasone (*immunosuppressive glucocorticoid*)  
 aNF, alpha-naphthoflavone (*AhR-antagonist*)  
 B(a)P, benz(a)pyrene (*AhR-agonist*)  
 LPS, lipopolysaccharide (*TLR4-agonist*)  
 CSE, aqueous cigarette smoking extract

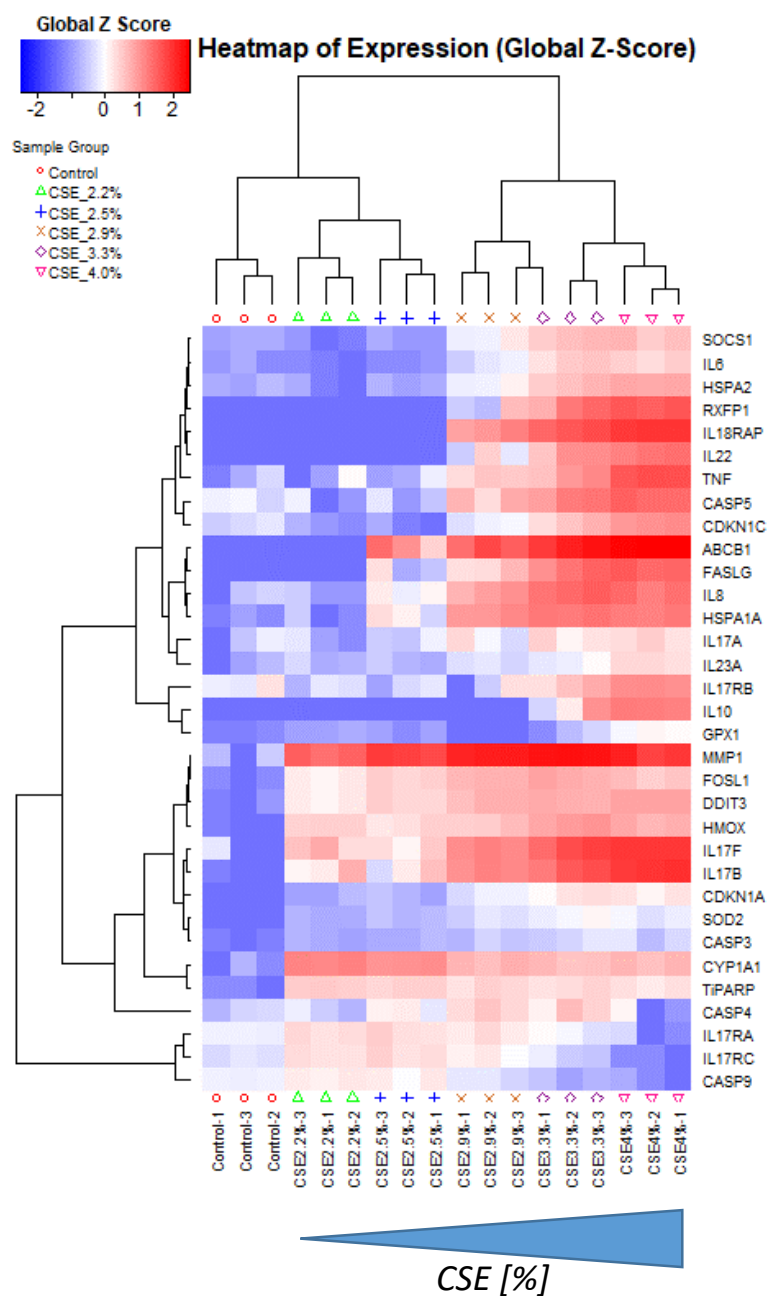


**Supplementary Figure S3**

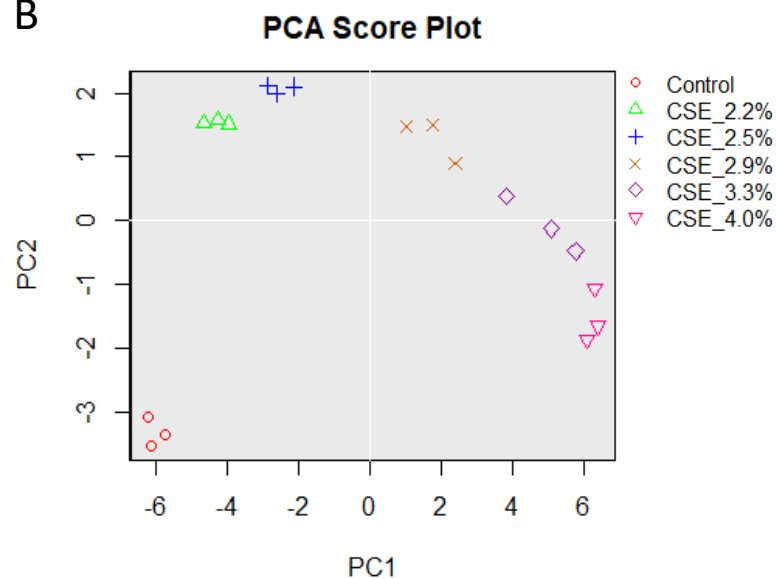


Supplementary Figure S4

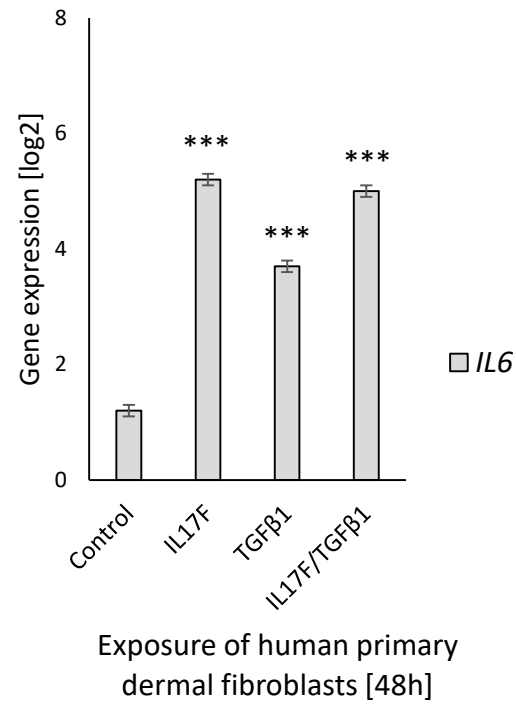
A



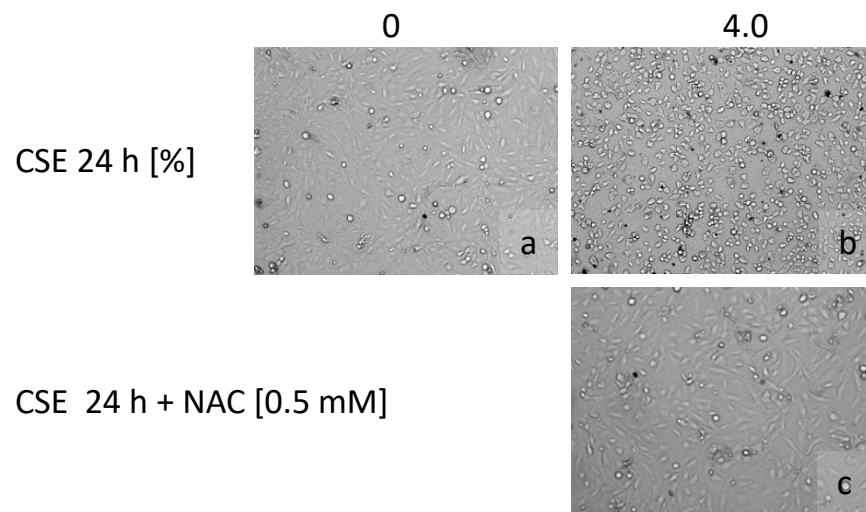
B



Supplementary Figure S5







**Supplementary Table S1: Primer sequences and universal probe library probes (UPL)**  
used for qPCR

Gene	Primer_forward	Primer_reverse	UPL	Remarks
<i>ABCB1</i>	ccggtggggcaagtcarttcatt	ccggtcggggtgggtagttga	66	
<i>ACTA2</i>	gctgttttcccatccattgt	agggtgggatgctcttcag	w/o	fibrosis
<i>CASP3</i>	ctggttttcggtgggtgt	ccactgagtttcagtgttctcc	34	
<i>CASP4</i>	ttcctggcaattgaaaatgg	tgcaagctgtactaatgaagggtg	23	
<i>CASP5</i>	cctcttctctggcaattgaa	tgctctttgatgttgacagagg	27	
<i>CASP9</i>	cccaagctcttttcatcca	ttactgccaggggactcgt	32	
<i>CDKN1A</i>	ccgaggcactcagaggag	agctgctcgctgtccact	70	
<i>CDKN1C</i>	ctcctttcccccttctctcg	tccatcggtgatgtgctg	55	
<i>COL1A1</i>	gtcgcactgggtgatgctg	gggtgtgtccacctcgag	w/o	fibrosis
<i>CYP1A1</i>	tccaagagtccaccttcc	aagcatgatcagtgtaggatct	66	
<i>DDIT3</i>	aaggcactgagcgtatcatgt	tgaagatacacttcttctgaacac	87	
<i>FASLG</i>	tggggatgttcagctcttc	gtgtgcatctggctggtaga	17	
<i>FN1</i>	ccagtcacagctattcctg	acaaccacggatgagctg	w/o	isoform: ED-A FN1; fibrosis
<i>FOSL1</i>	aaccggagggaaggaactgac	ctgcagcccagatttctca	4	
<i>GAPD</i>	gctctctgctcctctgttc	acgaccaaaccggtgactc	60	reference gene
<i>GAPD</i>	gagtcaaccgatttggtcgt	ttgattttggagggatctcg	w/o	reference gene
<i>GPX1</i>	caaccagtttgggcatcag	gtcacctcgcaacttctcg	77	
<i>GUSB</i>	cgccctgcctatctgtattc	tccccacagggagtggtgtag	57	reference gene
<i>HMOX</i>	cagtcaggcagagggtgatag	cctgcaactcctcaaagagc	15	
<i>HSPA1A</i>	ggagtccttacgccttcaaca	ccagcaccttcttctgtcg	88	
<i>HSPA2</i>	cgaggttaccttcgacattga	tgttttccttacgggtgctc	70	
<i>IL10</i>	gatgccttcagcagagtga	gcaaccacaggaacccttaa	67	
<i>IL17A</i>	ccccaaagcagtttagactatgg	ttgaaggatgaggggtctcg	23	
<i>IL17B</i>	gtggatgtccaacaagaggag	ctggggtcgtgggtgatg	45	
<i>IL17C</i>	ccctcagctacgaccagt	cttctgtgatagcggctct	16	
<i>IL17D</i>	gccctgggcctacagaat	acgacgggtgggcatgtag	27	
<i>IL17E</i>	catgtaccagggtcagtgaga	tctgtcctctccctctcag	27	
<i>IL17F</i>	ggcatcatcaatgaaaacca	tgggggtcccaagtgacag	10	
<i>IL17RA</i>	gtcatctgtcctcgtctg	tgggtcatcactgtatttttact	85	
<i>IL17RB</i>	gtcgtcgtgctgctaa	actctggagatggcccagt	21	
<i>IL17RC</i>	cgaagcttggaacagcatcc	cagatgcacgtgtgcacat	3	
<i>IL18RAP</i>	cagatattctggatcctgtcgag	tgctttgcagctaatagttaaagg	47	
<i>IL22</i>	caacaggctaagcacatgtca	actgtgtccttcagcttttgc	6	
<i>IL23A</i>	cagcttcagctcctccact	gactgaggcttggaaatctgc	14	
<i>IL6</i>	gatgagtacaaaagtcctgatcca	ctgcagccactggttctgt	40	
<i>IL6</i>	ccccagtacccccaggagaagat	gctgagatgccgtcaggatgta	w/o	
<i>IL8</i>	agacagcagagcacacaagc	aggaaggctccaagagag	72	
<i>MMP1</i>	acgaatttgccgacagagat	gtccttggggatccgtgta	26	
<i>MUC5AC</i>	agcaccagtgcccaagtct	actcctggcagtcctatgc	43	
<i>PALLD</i>	ttgaagggtccagttcaaca	tcaggctggcagagatatga	w/o	fibrosis
<i>PGK1</i>	ctgtgggggtatttgaatgg	cttcaggagctccaaactg	w/o	reference gene
<i>PPIA</i>	ttcatctgcactgccaagac	tcgagttgtccacagtcagc	w/o	reference gene
<i>RORC</i>	cagcgtccaacatcttct	ccacatctcccacatggact	69	
<i>RXFP1</i>	tggagtatgcttccctcttca	tgcggccaaattaatacca	59	
<i>SOCS1</i>	cccctggtgtgtgtagcag	gtaggagggtcgagttcagg	36	
<i>SOCS3</i>	gacttcgattcgggaccag	aactgtctgtgggtgaccat	70	
<i>SOD2</i>	ctggacaaacctcagcccta	tgatggcttcagcaactc	77	
<i>TIPARP</i>	ggaaattcttctgtagggacca	gttggcttctcaatcaatcg	58	
<i>TNF</i>	cagccttctccttctctgat	gccagagggtcgtattagaga	29	



**Supplementary Table S2.** Change in gene expression (mean, x-fold) compared to control after 24 h of exposure.  
*highlighted are values with p<0.0013 (Bonferroni correction)*

Cell type		BEAS										THP-1										PBMC	
Exposure		Aqueous cigarette smoke extract (CSE) [%]																					
		2.2		2.5		2.9		3.3		4.0		2.2		2.9		4.0		5.0		4.0			
Gene	Function	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value		
RXFP1	adhesion, relaxin receptor	1.0	0.9616	1.0	0.6854	1.2	0.8748	18.1	0.0494	83.1	0.0012	-3.8	0.0345	-21.7	0.0030	-2.3	0.0082	-1.9	0.0082	n.d.			
CASP3	apoptosis	1.3	0.0020	1.4	0.0026	1.7	0.0021	2.0	<0.001	1.9	0.0072	1.4	0.0387	1.6	0.0081	1.8	0.0237	1.1	0.4855	1.8	0.0138		
CASP4	apoptosis	1.0	0.8182	1.9	0.0389	3.5	0.0017	3.4	0.0152	-1.2	0.7507	1.6	0.3637	3.6	0.0032	-1.5	0.0809	-1.7	0.0179	-3.8	0.0011		
CASP5	apoptosis	-1.7	0.2078	-1.5	0.1899	4.0	0.0124	22.1	0.0063	49.3	<0.001	2.4	0.0191	17.1	0.0043	41.0	0.0012	5.5	0.0220	-1.7	0.0108		
CASP9	apoptosis	1.5	<0.001	1.5	0.0140	-1.2	0.0401	-1.8	0.0010	-2.4	<0.001	1.4	0.0442	3.0	0.0082	-1.8	0.0201	-1.3	0.1159	1.3	0.0223		
FASLG	apoptosis	1.1	0.8468	12.6	0.0035	36.3	<0.001	372.4	<0.001	807.1	<0.001	1.0	0.8091	1.0	0.7071	4.6	<0.001	154.0	<0.001	-4.8	0.0010		
FOSL1	apoptosis	3.9	<0.001	6.4	<0.001	11.6	<0.001	14.5	<0.001	8.0	<0.001	2.4	0.0290	10.6	0.0053	5.1	0.0141	3.4	0.0018	4.0	<0.001		
TIPARP	cellular stress, DNA damage	6.7	<0.001	6.2	<0.001	5.4	<0.001	5.3	<0.001	4.5	<0.001	2.6	0.0045	8.2	<0.001	5.9	<0.001	4.6	<0.001	1.9	0.0158		
HSPA1A	cellular stress	1.1	0.8068	3.0	0.0229	25.3	<0.001	58.2	<0.001	47.8	<0.001	2.0	0.0016	17.2	<0.001	144.4	<0.001	38.6	0.0030	17.4	<0.001		
HSPA2	cellulare stress	-1.3	0.1095	-1.0	0.8171	2.2	0.0049	6.4	<0.001	11.6	<0.001	1.4	0.0042	3.2	0.0038	16.4	<0.001	13.5	<0.001	15.5	<0.001		
ABCB1	drug metabolism	1.0	0.3739	7.7	0.0674	61.6	<0.001	1212.8	<0.001	13809.1	<0.001	-1.4	0.4226	7.1	0.0226	64.6	0.0059	63.7	0.0061	-2.5	0.0056		
CYP1A1	drug metabolism, AhR-related	37.7	<0.001	25.4	<0.001	10.1	<0.001	8.2	<0.001	9.3	<0.001	9.6	0.0071	44.7	0.0025	1.7	0.3108	1.6	0.2420	-151.2	<0.001		
IL17A	IL17 family	-1.1	0.8896	1.3	0.4676	2.1	0.1510	3.0	0.0261	3.5	0.0141	1.5	0.2189	6.4	0.0622	10.2	0.0411	9.8	0.0081	-1.4	0.6898		
IL17B	IL17 family	6.0	0.0440	4.4	0.0861	39.2	<0.001	171.4	0.0054	1043.1	<0.001	1.8	0.1487	1.1	0.8091	7.9	<0.001	4.4	0.0181	4.2	<0.001		
IL17C	IL17 family	1.4	0.2349	1.2	0.6855	2.3	0.1215	2.7	0.0043	-1.1	0.8524	2.3	0.1856	-1.2	0.8793	2.3	0.7950	1.7	0.5188	-5.2	0.0011		
IL17D	IL17 family	-1.1	0.7222	-1.1	0.8848	1.2	0.3880	1.3	0.2243	1.1	0.7007	-1.1	0.6610	-2.7	0.3362	1.2	0.9775	-1.1	0.9046	1.1	0.2050		
IL17E	IL17 family	1.1	0.9646	-1.2	0.7165	1.1	0.4878	1.0	0.8253	0.9	0.6754	-1.2	0.8371	1.0	0.6400	1.1	0.5378	1.1	0.4502	1.3	0.1959		
IL17F	IL17 family	8.1	0.0251	6.4	0.3416	42.2	<0.001	272.8	<0.001	769.4	<0.001	5.4	0.7329	6.1	0.4226	288.2	<0.001	301.3	<0.001	198.5	<0.001		
IL17RA	IL17 receptor family	2.0	<0.001	2.1	0.0060	1.7	0.0117	1.0	0.7836	-2.1	0.0334	1.5	0.1109	-1.2	0.1947	-1.8	0.0363	-1.1	0.3037	-3.5	<0.001		
IL17RB	IL17 receptor family	-1.5	0.1861	-1.6	0.1837	-1.5	0.5033	2.8	0.0519	10.7	<0.001	2.2	0.1829	7.7	0.0261	43.7	0.0076	8.2	0.0261	-2.2	0.0069		
IL17RC	IL17 receptor family	2.3	<0.001	2.5	0.0011	1.7	0.0052	-1.1	0.4969	-2.1	<0.001	3.1	<0.001	2.9	0.0399	-1.4	0.5778	1.0	0.8845	3.3	0.0015		
IL23A	IL17-related	1.3	0.2480	1.2	0.2652	1.7	0.0230	2.2	0.0098	4.4	<0.001	1.2	0.0423	-1.1	0.2979	1.4	0.2021	1.9	0.0503	1.2	0.2451		
RORC	IL17-related	-3.1	<0.001	-9.8	0.0290	-46.2	0.0013	-16.9	<0.001	-22.0	0.0135	-1.4	0.6345	-1.0	0.8648	-1.2	0.3748	-1.4	0.5748	1.1	0.9073		
IL10	inflammation	1.0	0.8838	1.0	0.2283	1.0	0.1819	6.9	0.1589	85.5	<0.001	-1.8	0.0042	-2.7	0.0078	-3.9	0.0011	-10.4	<0.001	-6.8	<0.001		
IL18RAP	inflammation	1.1	0.8446	-1.2	0.7546	15.7	<0.001	159.0	<0.001	674.8	<0.001	-1.2	0.3915	-1.3	0.4615	-1.2	0.8053	-2.5	0.8233	1.3	0.2627		
IL22	inflammation	3.7	0.0037	4.2	0.1220	2.4	0.1931	16.1	0.0190	52.1	<0.001	1.1	0.3314	1.0	0.8091	5.4	0.0098	61.0	<0.001	22.7	<0.001		
IL6	inflammation	-1.2	0.1164	-1.0	0.4350	1.9	0.0132	5.8	<0.001	5.4	<0.001	1.0	0.3911	2.7	0.0555	2.9	0.0286	1.0	0.8092	-4.2	<0.001		
IL8	inflammation	-1.1	0.7886	2.3	0.0343	13.0	0.0018	77.4	<0.001	53.4	<0.001	5.6	<0.001	33.6	<0.001	6.1	0.0220	5.1	0.0018	-1.5	<0.001		
TNF	inflammation	1.1	0.7759	1.2	0.6354	5.0	0.0028	14.7	0.0059	217.8	<0.001	4.0	0.0043	4.6	0.0019	2.7	0.0368	3.4	0.0196	1.6	0.0058		
DDIT3	marker of ER stress	3.8	<0.001	5.8	<0.001	11.2	<0.001	12.9	<0.001	16.9	<0.001	3.7	<0.001	7.6	<0.001	4.7	<0.001	5.4	<0.001	5.9	<0.001		
MUC5AC	mucosa protection, IL17-related	1.4	0.1527	-3.7	0.1697	-6.0	0.0142	2.9	0.2775	15.9	<0.001	n.d.		n.d.		n.d.		n.d.		n.d.			
CDKN1C	negative regulator of cell proliferation	-1.7	0.0082	-1.8	0.0083	1.3	0.0897	3.9	0.0053	14.3	<0.001	8.2	0.0025	22.1	<0.001	54.5	<0.001	51.4	<0.001	7.4	<0.001		
SOD2	oxidative stress	1.4	<0.001	1.6	<0.001	2.1	<0.001	3.0	<0.001	2.6	<0.001	1.7	0.0454	2.8	0.0031	5.0	<0.001	3.1	0.0030	-2.3	<0.001		
HMOX	oxidative stress, NRF2-related	6.8	<0.001	5.5	<0.001	8.0	<0.001	21.6	<0.001	13.8	<0.001	157.2	<0.001	1855.4	<0.001	424.2	<0.001	32.7	0.0021	1.2	0.0533		
GPX1	peroxidase	1.2	0.0036	1.1	0.0520	-1.1	0.0118	1.4	0.1027	3.1	<0.001	1.1	0.3314	-2.0	0.0212	1.6	0.0216	2.2	0.0111	-2.6	<0.001		
CDKN1A	senescence	1.4	0.0051	1.5	0.0116	2.6	<0.001	4.6	<0.001	4.5	<0.001	3.1	0.0036	5.8	<0.001	4.9	<0.001	2.5	<0.001	2.4	<0.001		
SOCS1	suppressor of cytokine signaling	-1.2	0.0369	-1.1	0.1766	2.3	0.0074	6.9	<0.001	7.1	<0.001	7.4	0.0011	25.2	<0.001	35.0	<0.001	27.2	<0.001	-1.4	0.0130		
SOCS3	SOCS, IL-17-related	1.2	0.3953	1.0	0.9446	-1.9	0.2742	1.7	0.0969	1.9	0.0259	4.2	0.0074	2.3	0.6923	10.5	0.0261	3.9	0.0837	4.2	<0.001		
MMP1	tissue remodeling, collagenase	89.8	<0.001	503.8	<0.001	3727.9	<0.001	9200.5	<0.001	1077.4	<0.001	9.5	0.0903	10.9	0.0532	12.2	0.0013	4.7	<0.001	-21.1	<0.001		

n.d.; not detectable

Cell type		BEAS													
Exposure		Mercury [μM]								Cadmium [μM]				Brefeldin A [μM]	
		0.29		0.58		1.2		2.3		19		38		17.8	
Gene	Function	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value	x-fold	p-value
<i>RXFP1</i>	adhesion, relaxin receptor	1.0	0.3150	1.0	0.1128	9.9	<0.001	42.4	0.0287	1.0	0.6410	<b>118.2</b>	<0.001	1.1	0.8856
<i>CASP3</i>	apoptosis	-1.3	0.0076	-1.3	0.0399	-1.1	0.4378	-1.3	0.0190	<b>-1.5</b>	<0.001	<b>-5.8</b>	<0.001	2.5	0.0044
<i>CASP4</i>	apoptosis	-1.0	0.9863	4.3	0.0374	1.8	0.4033	2.1	0.3617	-5.7	0.0254	1.2	0.7278	-1.1	0.9654
<i>CASP5</i>	apoptosis	1.1	0.8088	1.8	0.1504	8.1	0.0093	<b>33.5</b>	<0.001	1.3	0.5748	<b>40.7</b>	<0.001	1.1	0.8946
<i>CASP9</i>	apoptosis	<b>-1.4</b>	<0.001	<b>-2.4</b>	<0.001	<b>-3.1</b>	<0.001	<b>-3.7</b>	<0.001	<b>-1.6</b>	<0.001	<b>-2.0</b>	<0.001	2.0	0.0028
<i>FASLG</i>	apoptosis	1.0	0.3092	3.2	0.0101	<b>8.2</b>	<0.001	<b>50.7</b>	<0.001	1.0	0.6521	<b>17.1</b>	<0.001	-1.1	0.9854
<i>FOSL1</i>	apoptosis	1.8	0.0011	<b>4.2</b>	<0.001	<b>7.6</b>	<0.001	<b>5.4</b>	<0.001	3.0	<0.001	<b>15.0</b>	<0.001	3.2	0.0598
<i>TIPARP</i>	cellular stress, DNA damage	-1.0	0.9820	1.4	0.0142	<b>2.5</b>	<0.001	<b>3.3</b>	<0.001	1.2	0.2252	<b>3.2</b>	<0.001	2.4	0.2065
<i>HSPA1A</i>	cellulare stress	-1.4	0.0076	<b>19.9</b>	<0.001	<b>44.4</b>	<0.001	<b>101.0</b>	<0.001	<b>4.4</b>	<0.001	<b>134.3</b>	<0.001	-2.7	0.0506
<i>HSPA2</i>	cellulare stress	-1.7	<0.001	1.4	0.0385	<b>3.4</b>	<0.001	<b>10.5</b>	<0.001	-1.2	0.0370	<b>1.6</b>	<0.001	-3.5	0.0483
<i>ABCB1</i>	drug metabolism	-1.0	0.1778	<b>8.5</b>	<0.001	<b>37.2</b>	<0.001	<b>619.9</b>	<0.001	3.1	0.0417	<b>1791.1</b>	<0.001	1.0	0.8654
<i>CYP1A1</i>	drug metabolism, AhR-related	-1.4	0.2777	-1.3	0.3150	1.2	0.3502	1.7	0.1747	1.2	0.6300	<b>5.2</b>	<0.001	1.6	0.3100
<i>IL17A</i>	IL17 family	1.1	0.3042	3.1	0.0897	<b>1.6</b>	<0.001	6.2	0.0039	-1.6	0.0211	<b>4.2</b>	<0.001	-2.2	0.4599
<i>IL17B</i>	IL17 family	-4.1	0.2307	1.2	0.5829	6.5	0.0087	<b>80.8</b>	<0.001	1.3	0.5405	<b>103.5</b>	<0.001	6.1	0.0748
<i>IL17C</i>	IL17 family	-2.5	0.1471	1.3	0.6835	-2.2	0.2333	-1.1	0.8580	-1.3	0.6571	-1.6	1.0000	-2.5	0.3264
<i>IL17D</i>	IL17 family	-2.1	0.0030	<b>-4.3</b>	<0.001	-2.5	0.0039	-1.7	0.0352	-1.5	0.0957	-1.2	0.3854	4.9	0.0107
<i>IL17E</i>	IL17 family	-1.3	0.3483	-1.1	0.2844	1.5	0.5317	1.1	0.6270	1.2	0.4423	-1.1	0.2979	1.1	0.8246
<i>IL17F</i>	IL17 family	2.3	0.2817	2.4	0.1188	4.0	0.1040	<b>38.5</b>	<0.001	1.0	1.0000	<b>32.0</b>	<0.001	14.9	0.0124
<i>IL17RA</i>	IL17 receptor family	1.1	0.3091	-1.0	0.9317	-1.5	0.0245	<b>-2.3</b>	<0.001	-1.3	0.0927	-1.7	0.0069	2.3	0.0078
<i>IL17RB</i>	IL17 receptor family	-2.3	0.0071	-2.5	0.0051	1.3	0.5581	<b>6.7</b>	<0.001	-1.6	0.1211	-1.3	0.3476	<b>3.6</b>	<0.001
<i>IL17RC</i>	IL17 receptor family	1.2	0.0261	-1.3	0.0037	-1.9	0.0011	<b>-4.9</b>	<0.001	-1.2	0.0433	<b>-2.1</b>	<0.001	3.7	0.0036
<i>IL23A</i>	IL17-related	-1.1	0.5298	1.6	0.3032	1.1	0.6200	<b>5.0</b>	<0.001	1.2	0.1997	<b>10.7</b>	<0.001	1.1	0.8846
<i>RORC</i>	IL17-related	-3.7	0.4175	-6.7	0.6251	-5.4	0.3725	-15.9	0.2740	-3.3	0.0626	-10.5	0.1460	-1.1	0.3858
<i>IL10</i>	inflammation	1.0	0.9317	1.0	0.5581	2.2	0.0328	<b>25.6</b>	<0.001	1.0	0.2258	<b>139.7</b>	<0.001	1.0	0.6200
<i>IL18RAP</i>	inflammation	1.0	1.0000	1.8	0.0047	<b>20.1</b>	<0.001	<b>343.9</b>	<0.001	<b>21.0</b>	<0.001	<b>2290.8</b>	<0.001	1.0	1.0000
<i>IL22</i>	inflammation	1.0	0.3715	-1.9	0.3896	2.6	0.1299	3.6	0.0202	1.0	0.8977	15.2	0.0017	1.0	1.0000
<i>IL6</i>	inflammation	-1.3	0.3433	-1.4	0.2444	1.5	0.1935	<b>7.9</b>	<0.001	1.7	0.1075	<b>8.8</b>	<0.001	5.0	0.0631
<i>IL8</i>	inflammation	2.0	<0.001	<b>6.4</b>	<0.001	<b>14.2</b>	<0.001	<b>53.7</b>	<0.001	<b>4.3</b>	<0.001	<b>133.6</b>	<0.001	-1.8	0.5608
<i>TNF</i>	inflammation	-1.4	0.2795	-1.1	0.7895	2.5	0.0274	<b>13.1</b>	<0.001	-1.0	0.9472	<b>58.5</b>	<0.001	-1.7	0.4784
<i>DDIT3</i>	marker of ER stress	1.1	0.2167	<b>3.4</b>	<0.001	<b>7.1</b>	<0.001	<b>12.1</b>	<0.001	<b>1.8</b>	<0.001	<b>17.5</b>	<0.001	<b>40.5</b>	<0.001
<i>MUC5AC</i>	mucosa protection, IL17-related	-6.6	0.1016	-1.5	0.3155	<b>5.0</b>	<0.001	<b>45.1</b>	<0.001	2.8	0.0033	<b>260.8</b>	<0.001	-5.2	0.4668
<i>CDKN1C</i>	negative regulator of cell proliferation	-2.7	<0.001	2.0	0.0013	<b>8.0</b>	<0.001	<b>20.8</b>	<0.001	<b>2.7</b>	<0.001	<b>189.3</b>	<0.001	-1.5	0.5387
<i>SOD2</i>	oxidative stress	-1.3	0.0554	1.2	0.1209	<b>2.0</b>	<0.001	<b>3.1</b>	<0.001	-1.0	0.8987	-1.4	0.0033	-1.0	0.9972
<i>HMOX</i>	oxidative stress, NRF2-related	<b>6.5</b>	<0.001	<b>29.2</b>	<0.001	<b>44.0</b>	<0.001	<b>56.6</b>	<0.001	<b>29.2</b>	<0.001	<b>244.2</b>	<0.001	3.4	0.0019
<i>GPX1</i>	peroxidase	<b>-3.6</b>	<0.001	<b>-7.0</b>	<0.001	<b>-7.0</b>	<0.001	<b>-4.1</b>	<0.001	<b>-3.4</b>	<0.001	<b>-1.8</b>	<0.001	-1.4	0.5633
<i>CDKN1A</i>	senescence	<b>-1.5</b>	<0.001	<b>1.4</b>	<0.001	<b>3.9</b>	<0.001	<b>6.0</b>	<0.001	<b>-1.7</b>	<0.001	<b>1.8</b>	<0.001	3.1	0.0161
<i>SOCS1</i>	suppressor of cytokine signaling	<b>-2.8</b>	<0.001	-1.1	0.7065	<b>2.0</b>	<0.001	<b>5.9</b>	<0.001	-1.1	0.0252	<b>10.3</b>	<0.001	-3.5	0.1888
<i>SOCS3</i>	SOCS, IL-17-related	-2.0	0.0128	-5.1	0.0348	-2.3	0.0067	-1.5	0.2750	-1.7	0.0446	-1.2	0.5075	-1.5	0.7428
<i>MMP1</i>	tissue remodeling, collagenase	<b>10.4</b>	<0.001	<b>170.7</b>	<0.001	<b>814.2</b>	<0.001	<b>1834.1</b>	<0.001	<b>53.5</b>	<0.001	<b>494.3</b>	<0.001	6.2	0.0288

n.d.; not detectable