Supplemental Table S1: Changes in gene expression of adherens junctions, tight junctions, and gap junctions after activation of IL-6 classical (CS) and trans-signaling (TS) in human retinal endothelial cells (HRECs).

Symbol	Gene Name	FC (TS vs. UT)	Adj. *p*-value (TS vs. UT)	FC (CS vs. UT)	Adj. *p*-value (CS vs. UT)
		Adherens Junctions			
CTNNA1	*Catenin alpha 1*	−1.04	0.525	−1.24	0.213
CTNNA2	*Catenin alpha 2*	NA	NA	NA	NA
CTNNA3	*Catenin alpha 3*	NA	NA	NA	NA
CTNNAL1	*Catenin alpha-like 1*	−1.21	4.36×10^{-5}	−1.16	0.404
CTNNB1	*Catenin beta 1*	1.07	0.235	−1.17	0.380
CTNNBIP1	*Catenin beta interacting protein 1*	−1.29	6.05×10^{-4}	−1.37	0.086
CTNNBL1	*Catenin beta-like 1*	−1.08	0.352	−1.35	0.078
CTNND1	*Catenin delta 1*	1.72	0.089	1.06	0.889
CTNND2	*Catenin delta 2*	NA	NA	NA	NA
CDH1	*Cadherin 1*	NA	NA	NA	NA
CDH2	*Cadherin 2*	−1.09	0.112	−1.13	0.474
CDH3	*Cadherin 3*	NA	NA	NA	NA
CDH4	*Cadherin 4*	NA	NA	NA	NA
CDH5	*Cadherin 5*	−1.08	0.138	−1.14	0.467
CDH6	*Cadherin 6*	−1.66	5.96×10^{-20}	−1.10	0.637
CDH7	*Cadherin 7*	NA	NA	NA	NA
CDH8	*Cadherin 8*	NA	NA	NA	NA
CDH9	*Cadherin 9*	NA	NA	NA	NA
CDH10	*Cadherin 10*	NA	NA	NA	NA
CDH11	*Cadherin 11*	1.74	3.08×10^{-14}	−1.06	0.774
CDH12	*Cadherin 12*	1.97	2.35×10^{-4}	−1.11	NA
CDH13	*Cadherin 13*	−1.12	0.076	−1.21	0.290
CDH15	*Cadherin 15*	1.38	0.108	−1.48	NA
CDH16	*Cadherin 16*	NA	NA	NA	NA
CDH17	*Cadherin 17*	NA	NA	NA	NA
CDH18	*Cadherin 18*	NA	NA	NA	NA
CDH19	*Cadherin 19*	NA	NA	NA	NA
CDH20	*Cadherin 20*	NA	NA	NA	NA
CDH22	*Cadherin 22*	NA	NA	NA	NA
CDH23	*Cadherin 23*	NA	NA	NA	NA
CDH24	*Cadherin 24*	−1.67	8.42×10^{-15}	−1.21	0.202
CDH26	*Cadherin 26*	NA	NA	NA	NA
		Tight Junctions			
CLDN1	*Claudin 1*	−3.27	6.91×10^{-10}	−1.52	NA
CLDN2	*Claudin 2*	NA	NA	NA	NA
CLDN3	*Claudin 3*	−4.44	3.91×10^{-8}	−1.45	NA
CLDN4	*Claudin 4*	−1.26	0.368	1.75	NA
CLDN5	*Claudin 5*	−1.04	0.723	−1.39	0.052
CLDN6	*Claudin 6*	NA	NA	NA	NA
CLDN7	*Claudin 7*	−1.13	0.131	−1.30	0.155
CLDN8	*Claudin 8*	NA	NA	NA	NA
CLDN9	*Claudin 9*	NA	NA	NA	NA
CLDN10	*Claudin 10*	NA	NA	NA	NA
CLDN11	*Claudin 11*	−1.85	2.79×10^{-52}	−1.25	0.181
CLDN12	*Claudin 12*	1.25	0.003	1.02	0.936
CLDN14	*Claudin 14*	−1.36	2.17×10^{-4}	−1.15	NA
CLDN15	*Claudin 15*	1.04	0.823	1.48	0.048
CLDN16	*Claudin 16*	NA	NA	NA	NA
CLDN17	*Claudin 17*	NA	NA	NA	NA
CLDN18	*Claudin 18*	NA	NA	NA	NA
CLDN19	*Claudin 19*	NA	NA	NA	NA
CLDN20	*Claudin 20*	NA	NA	NA	NA
CLDN22	*Claudin 22*	NA	NA	NA	NA
CLDN23	*Claudin 23*	NA	NA	NA	NA
CLDND1	*Claudin domain containing 1*	1.08	0.217	−1.19	0.373
CLDND2	*Claudin domain containing 2*	NA	NA	NA	NA
TJAP1	*Tight junction associated protein 1*	−1.06	0.473	−1.06	0.732
TJP1	*Tight junction protein 1*	1.17	0.013	1.04	0.866
TJP2	*Tight junction protein 2*	−1.31	9.83×10^{-8}	−1.12	0.548
TJP3	*Tight junction protein 3*	NA	NA	NA	NA

Gap Junctions					
GJA1	*Gap junction protein alpha 1*	1.49	1.75×10^{-18}	−1.18	0.366
GJA3	*Gap junction protein alpha 3*	NA	NA	NA	NA
GJA4	*Gap junction protein alpha 4*	−2.41	2.36×10^{-9}	−1.89	NA
GJA5	*Gap junction protein alpha 5*	NA	NA	NA	NA
GJA8	*Gap junction protein alpha 8*	NA	NA	NA	NA
GJA9	*Gap junction protein alpha 9*	NA	NA	NA	NA
GJA10	*Gap junction protein alpha 10*	NA	NA	NA	NA
GJB1	*Gap junction protein beta 1*	NA	NA	NA	NA
GJB2	*Gap junction protein beta 2*	NA	NA	NA	NA
GJB3	*Gap junction protein beta 3*	NA	NA	NA	NA
GJB4	*Gap junction protein beta 4*	NA	NA	NA	NA
GJB5	*Gap junction protein beta 5*	NA	NA	NA	NA
GJB6	*Gap junction protein beta 6*	NA	NA	NA	NA
GJB7	*Gap junction protein beta 7*	NA	NA	NA	NA
GJC1	*Gap junction protein gamma 1*	−1.19	0.002	−1.09	0.661
GJC2	*Gap junction protein gamma 2*	−1.19	0.438	−1.33	NA
GJC3	*Gap junction protein gamma 3*	NA	NA	NA	NA
GJD2	*Gap junction protein delta 2*	NA	NA	NA	NA
GJD3	*Gap junction protein delta 3*	1.16	0.056	−1.24	0.207
GJD4	*Gap junction protein delta 4*	NA	NA	NA	NA

FC: Fold Change; **TS vs. UT:** IL-6 trans-signaling vs. untreated; **CS vs. UT:** IL-6 classical signaling vs. untreated; **Adj. *p*-value:** FDR adjusted *p*-value; **NA:** adj. *p*-values were not calculated due to smaller read counts. Data represents UT (n=5), TS (n=5), and CS (n=5).