

TABLE S8: Genes set enrichment analysis revealed a significant overrepresentation of the KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION set in low Combo score patients compared to high Combo score patients ($P < 0.0001$).

PROBE	GENE SYMBOL	GENE_TITLE	RANK METRIC SCORE	RUNNING ES	CORE ENRICHMENT
CXCL12	CXCL12	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	0.374263227	0.03703449	Yes
IL1B	IL1B	interleukin 1, beta	0.300350547	0.06454179	Yes
CSF1R	CSF1R	colony stimulating factor 1 receptor, formerly McDonough feline sarcoma viral (v-fms) oncogene homolog	0.283336967	0.09102628	Yes
VEGFC	VEGFC	vascular endothelial growth factor C	0.244603112	0.100454465	Yes
CCL8	CCL8	chemokine (C-C motif) ligand 8	0.242488205	0.12374423	Yes
LTB	LTB	lymphotoxin beta (TNF superfamily, member 3)	0.240899578	0.14687385	Yes
IL28A	IL28A	interleukin 28A (interferon, lambda 2)	0.239025205	0.17004527	Yes
IL8	IL8	interleukin 8	0.234310955	0.18951121	Yes
CCL18	CCL18	chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)	0.232407987	0.21224633	Yes
LIFR	LIFR	leukemia inhibitory factor receptor alpha	0.231997937	0.23494011	Yes
CCR7	CCR7	chemokine (C-C motif) receptor 7	0.224684015	0.25043607	Yes
CXCL5	CXCL5	chemokine (C-X-C motif) ligand 5	0.213358849	0.25948358	Yes
IL18	IL18	interleukin 18 (interferon-gamma-inducing factor)	0.198532909	0.2575765	Yes
FLT3	FLT3	fms-related tyrosine kinase 3	0.193516344	0.2692385	Yes
EPOR	EPOR	erythropoietin receptor	0.193038225	0.2877743	Yes
EGFR	EGFR	epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	0.191823065	0.30503395	Yes
TNFRSF1B	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B	0.18100886	0.30205262	Yes
TNFSF8	TNFSF8	tumor necrosis factor (ligand) superfamily, member 8	0.178310588	0.31495064	Yes
CSF3R	CSF3R	colony stimulating factor 3 receptor (granulocyte)	0.168965831	0.31560072	Yes
CCL16	CCL16	chemokine (C-C motif) ligand 16	0.167191952	0.32899308	Yes
IL18RAP	IL18RAP	interleukin 18 receptor accessory protein	0.165709525	0.3433897	Yes
IL2RB	IL2RB	interleukin 2 receptor, beta	0.15987362	0.34681502	Yes
CCR9	CCR9	chemokine (C-C motif) receptor 9	0.156392083	0.35381186	Yes
CXCL6	CXCL6	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	0.15075317	0.35701	Yes
IL21R	IL21R	interleukin 21 receptor	0.150014937	0.36959383	Yes
PF4V1	PF4V1	platelet factor 4 variant 1	0.146394417	0.3778902	Yes
TNFSF9	TNFSF9	tumor necrosis factor (ligand) superfamily, member 9	0.145140558	0.38882902	Yes
TGFB2	TGFB2	transforming growth factor, beta 2	0.144315422	0.4015305	Yes
TNFSF4	TNFSF4	tumor necrosis factor (ligand) superfamily, member 4 (tax-transcriptionally activated glycoprotein 1, 34kDa)	0.144280821	0.41584364	Yes
IL12B	IL12B	interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	0.138393223	0.41664222	Yes
CXCL1	CXCL1	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	0.13808839	0.42963895	Yes
PDGFRA	PDGFRA	platelet-derived growth factor receptor, alpha polypeptide	0.13194555	0.42540362	Yes
FAS	FAS	Fas (TNF receptor superfamily, member 6)	0.126809865	0.42503455	Yes
CCL23	CCL23	chemokine (C-C motif) ligand 23	0.123425379	0.43055415	Yes
IL1R1	IL1R1	interleukin 1 receptor, type I	0.120059006	0.4352729	Yes
TNFRSF11A	TNFRSF11A	tumor necrosis factor receptor superfamily, member 11a, NFkB activator	0.119455054	0.44546843	Yes
PPBP	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	0.118266091	0.45346746	Yes
TNFSF13B	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b	0.116980471	0.46087545	Yes
GHR	GHR	growth hormone receptor	0.114393204	0.46617678	Yes
PF4	PF4	platelet factor 4 (chemokine (C-X-C motif) ligand 4)	0.112276815	0.47195697	Yes
IL1RAP	IL1RAP	interleukin 1 receptor accessory protein	0.111347876	0.4804123	Yes
CX3CR1	CX3CR1	chemokine (C-X3-C motif) receptor 1	0.105247162	0.47648525	Yes
BMPR1B	BMPR1B	bone morphogenetic protein receptor, type IB	0.103471495	0.48345444	Yes