

Supplementary Table S1. Summary of all significant and top three (if available, in bold) closest BCC “relatives” by cell type.

Cell Type	BCC score (median), Q1, Q3	BCC- “Relatives” score (median)	Q1	Q3	P-value
Th2	4.188E-18, 0, 0.01980129	PRAD = 1.07E-17	0	0.01706565	0.6102
		KICH = 0.001056705	0	0.007381045	0.151
		KIRC = 2.23E-17	0	0.03051409	0.1368
MSC	0.188433346, 0.08336783, 0.28205374	SKCM = 0.16096867	0.07202425	0.25446426	0.3872
Total CD8+	0.00445073, 0, 0.043739228	GBM = 0.01048155	0	0.03021879	0.2741
		LGG = 0	0	0.01996548	0.05719
Tgd	0, 0, 0.008231755	THCA = 0	0	0.008063912	0.7752
		CHOL = 0	0	0.01282003	0.6099
		LIHC = 0	0	0.006720286	0.5979
		KICH = 0	0	0.009986598	0.5525
		TGCT = 0	0	0.003538575	0.3495
		GBM = 0	0	0.001140639	0.244
		KIRC = 0	0	0.002117059	0.2002
		DLBC = 0	0	0.01388940	0.08334
		SARC = 0	0	0.002129824	0.07291
B-cells	0.04857795, 0.020757612, 0.086950544	THYM = 0.055183104	0.03108108	0.08455359	0.3715
		GBM = 0.04815724	0.028318876	0.075344991	0.2374
Total Lymphocytes	0.39140159, 0.3132104, 0.4688854	SARC = 0.416998654	0.3124302	0.5153758	0.2290
Macrophages	0.25033106, 0.1763854, 0.3784326	ESCA = 0.2331247	0.1675734	0.3352133	0.5397
		KICH = 0.276729	0.1843325	0.3949821	0.4904
		BLCA = 0.2590653	0.16693727	0.33762817	0.3333
		ACC = 0.2594566	0.2071582	0.3565666	0.3128
		STAD = 0.2654186	0.19623848	0.33075342	0.2366
		HNSC = 0.2748354	0.2069556	0.3561280	0.2252
Total NK	0.0325587, 0.005046464, 0.053041073	DLBC = 0.2793964	0.18870890	0.33007984	0.08976
		THYM = 0.02682497	0.009408674	0.049124771	0.6696
		ESCA = 0.02523973	0.01152386	0.04604726	0.4214
		KIRP = 0.02878749	0.01382830	0.04874396	0.3381
		UVM = 0.02839242	0.01406619	0.04997250	0.25
		READ = 0.02042911	0.003387114	0.041380355	0.2457
		UCS = 0.0360689	0.01366458	0.07025842	0.2434
		KIRC = 0.03447636	0.01423560	0.05709336	0.2311
		SARC = 0.02980665	0.01438558	0.04549609	0.1979
		BLCA = 0.03280019	0.01570095	0.05698518	0.1718
		DLBC = 0.01879405	0.004128464	0.042910416	0.1221

		PRAD = 0.03551566	0.01577075	0.05472112	0.09082
		LUSC = 0.02415559	0.01062867	0.03874510	0.07355
		CHOL = 0.04473911	0.02815367	0.06960667	0.05944
		COAD = 0.02242313	0.006309632	0.041589770	0.05544
		THCA = 0.03297953	0.01616638	0.05686914	0.0512
		SKCM = 0.02038228	0.006983169	0.040457560	0.05057
Tregs	0, 0, 0	ACC = 0	0	0	0.9991
		LAML = 0	0	0.00315034	0.3533
Total CD4+	0.15296126, 0.1031139, 0.2082608	CHOL = 0.156189	0.1321129	0.1952696	0.6959
		SARC = 0.1562586	0.1154291	0.2083701	0.6334
		SKCM = 1412604	0.08728384	0.19168763	0.5715
		UCS = 0.145859	0.08257441	0.22042976	0.5447
		THCA = 0.1411155	0.1003041	0.1867856	0.4649
		LIHC = 0.1652248	0.1152202	0.2237863	0.4642
		BLCA = 0.1649314	0.09478596	0.23077402	0.2715
		MESO = 0.1472571	0.11229869	0.18824632	0.2135
		CESC = 0.1667974	0.1167771	0.2087164	0.2112
		KICH = 0.1782413	0.12870279	0.22144281	0.17
		PAAD = 0.1700216	0.12820877	0.21796094	0.1254
		TGCT = 0.1730064	0.1346265	0.2090150	0.08706
		PCPG = 0.175342	0.13049092	0.23039868	0.08318