

Supplemental Table 1 - Direction and degree of change for all samples as in Barone et al. Figure 6\*

Sample ID	Disease at day 0	Sample source	Population analyzed	Total cells	Studied intervention	Outcome	Day compared	# cells, [0,5]	# cells, [5,15]	# cells, [15,85]	# cells, [85,95]	# cells, [95,100]	# cells, total	Change magnitude	Change direction
RV_N001	Healthy	PBMC	CD4+ T cells	1.20E+06	Rhinovirus challenge	infected	7	0	594	1197238	1537	631	1200000	68.266%	-0.090
RV_N002	Healthy	PBMC	CD4+ T cells	9.00E+05	Rhinovirus challenge	uninfected	7	623	2194	897183	0	0	900000	99.526%	-0.002
RV_N003	Healthy	PBMC	CD4+ T cells	2.40E+06	Rhinovirus challenge	uninfected	7	0	286	2394730	4308	676	2400000	81.122%	-0.008
RV_N004	Healthy	PBMC	CD4+ T cells	2.40E+06	Rhinovirus challenge	infected	7	297	5018	2390487	4138	60	2400000	80.954%	0.009
RV_N005	Healthy	PBMC	CD4+ T cells	2.22E+06	Rhinovirus challenge	infected	7	26	496	2219427	51	0	2220000	3.186%	0.847
RV_N006	Healthy	PBMC	CD4+ T cells	1.64E+06	Rhinovirus challenge	infected	7	9	3536	1632259	4104	92	1640000	5.974%	-0.072
RV_N007	Healthy	PBMC	CD4+ T cells	1.28E+06	Rhinovirus challenge	infected	7	0	87	1279385	507	21	1280000	2.700%	0.469
RV_N008	Healthy	PBMC	CD4+ T cells	1.30E+06	Rhinovirus challenge	infected	7	2818	5429	1291753	0	0	1300000	32.688%	-0.200
RV_N009	Healthy	PBMC	CD4+ T cells	1.04E+06	Rhinovirus challenge	infected	7	0	90	1038916	739	255	1040000	2.020%	0.997
COV_024	COVID-19	PBMC	All cells	6.34E+04	N/A	ICU	3	3	1105	58091	3580	647	63426	0.047%	-0.043
COV_026	COVID-19	PBMC	All cells	1.19E+05	N/A	ICU	6	4	338	111308	5389	2409	119448	1.025%	0.991
COV_027	COVID-19	PBMC	All cells	4.90E+04	N/A	ICU	1	12	1859	45592	1532	11	49006	18.412%	-0.713
COV_029	COVID-19	PBMC	All cells	1.64E+05	N/A	ICU	4	12208	17659	113306	17287	3920	164380	64.947%	0.026
COV_032	COVID-19	PBMC	All cells	3.21E+05	N/A	non ICU	6	119305	18635	51651	31496	99643	320730	3.915%	0.053
COV_034	COVID-19	PBMC	All cells	4.97E+05	N/A	ICU	7	97380	70135	164237	99849	64921	496522	31.962%	-0.460
COV_035	COVID-19	PBMC	All cells	8.14E+04	N/A	ICU	4	141	3044	74262	3341	610	81398	0.923%	0.625
COV_036	COVID-19	PBMC	All cells	2.96E+05	N/A	non ICU	5	5494	5497	271632	7703	6112	296438	9.811%	-0.514
COV_037	COVID-19	PBMC	All cells	5.81E+03	N/A	ICU	5	1839	523	977	538	1937	5814	0.765%	-0.898
COV_039	COVID-19	PBMC	All cells	1.94E+05	N/A	ICU	4	45209	12696	88567	30561	16717	193750	0.395%	-1.000
COV_040	COVID-19	PBMC	All cells	4.84E+04	N/A	ICU	6	347	1477	42432	3151	959	48366	6.307%	0.065
COV_041	COVID-19	PBMC	All cells	9.82E+04	N/A	ICU	4	15488	9468	62216	8458	2598	98228	0.311%	-1.000
MB_004	Melanoma	PBMC	All cells	1.69E+05	α-PD immunotherapy	complete	3	4975	20025	115912	22236	5672	168820	2.780%	-0.849
MB_005	Melanoma	PBMC	All cells	1.54E+05	α-PD immunotherapy	complete	3	1117	1636	149069	2042	60	153924	0.005%	1.000
MB_006	Melanoma	PBMC	All cells	1.92E+05	α-PD immunotherapy	progressive	5	11418	4735	172333	3476	276	192238	1.679%	0.668
MB_007	Melanoma	PBMC	All cells	1.72E+05	α-PD immunotherapy	progressive	3	536	2916	168874	154	0	172480	0.000%	0.000
MB_008	Melanoma	PBMC	All cells	2.33E+05	α-PD immunotherapy	partial	3	5991	7137	211481	8094	491	233194	6.083%	-0.953
MB_009	Melanoma	PBMC	All cells	4.65E+05	α-PD immunotherapy	stable	3	1838	6903	455082	1401	0	465224	0.053%	1.000
MB_010	Melanoma	PBMC	All cells	3.94E+05	α-PD immunotherapy	partial	3	0	478	392391	851	20	393740	0.069%	-1.000
MB_012	Melanoma	PBMC	All cells	1.65E+05	α-PD immunotherapy	partial	3	459	6870	147120	7973	2306	164728	0.015%	-0.664
MB_013	Melanoma	PBMC	All cells	4.29E+05	α-PD immunotherapy	partial	6	56	579	424404	3654	449	429142	0.025%	1.000
MB_041	Melanoma	PBMC	All cells	3.45E+05	α-PD immunotherapy	progressive	3	0	0	344611	13	0	344624	0.217%	-1.000
AML_F001	AML	PBMC	All cells	6.31E+04	Chemotherapy	CR	5	31498	7	131	161	31341	63138	0.028%	1.000
AML_F002	AML	PBMC	All cells	7.40E+04	Chemotherapy	CR	8	29663	5074	5134	3878	30209	73958	0.002%	1.000
AML_F003	AML	PBMC	All cells	6.83E+05	Chemotherapy	PD	5	1667	48603	556652	55640	20082	682644	0.006%	0.822
AML_F004	AML	PBMC	All cells	3.41E+05	Chemotherapy	CR	8	139293	21982	25628	16694	137025	340622	0.001%	-1.000
AML_F007	AML	PBMC	All cells	1.94E+05	Chemotherapy	CR	8	6203	14309	144865	22967	5370	193714	0.118%	0.778

\*For studied interventions and outcomes, see original manuscripts for detailed information. Day compared indicates the actual day a sample was taken relative to a day 0 comparison in all cases. #cells indicates the number of cells in each percentile grouping (e.g. [0,5] indicates the number of cells whose KNN area had less than or equal to 5% change in T-REX analysis). Change magnitude and direction are as in Figure 6A.