CGD samples

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Project interface

Individual patient reports and a detailed account of received sample can be found via this (Link).

Basic stats

Average number of integrations per subject in PBMC at Y1: 9208

Average number of sampled cells (Chao1 estimate) per subject in PBMC at Y1: 64,034

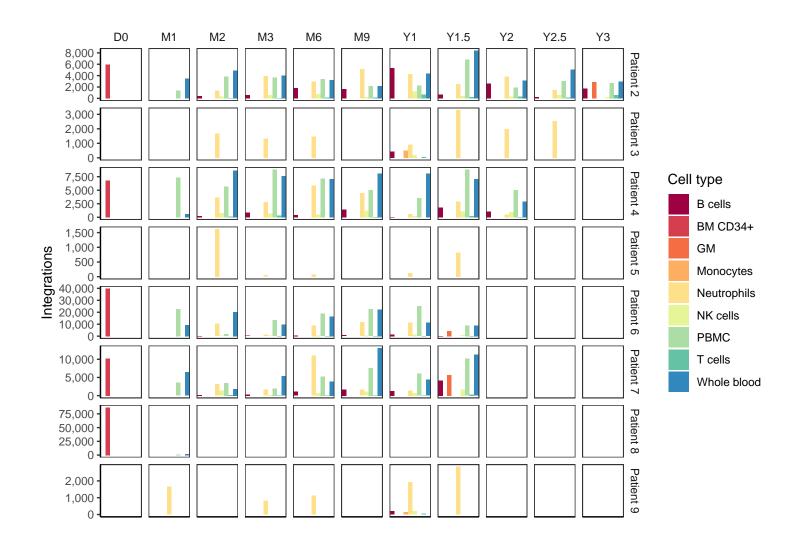
Max. rel. abund. of clones in PBMC at Y1: 0.30%

Max. rel. abund. of clones near SETBP1, PRDM16 and MECOM in PBMC at Y1: 0.04%

Max. rel. abund. of clones in PBMC (all time points): 0.96%

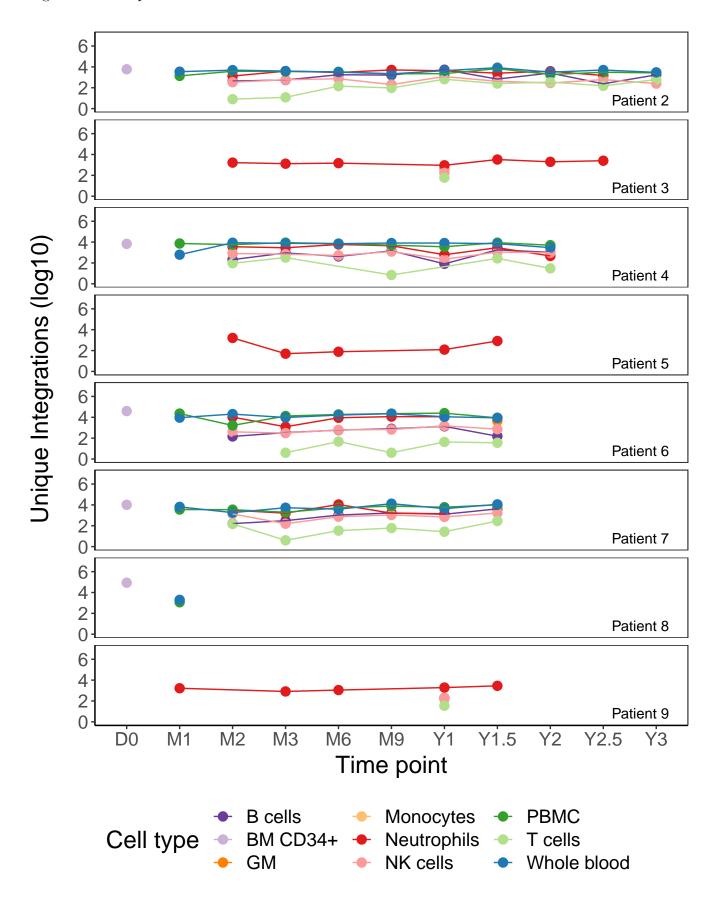
Observed integrations

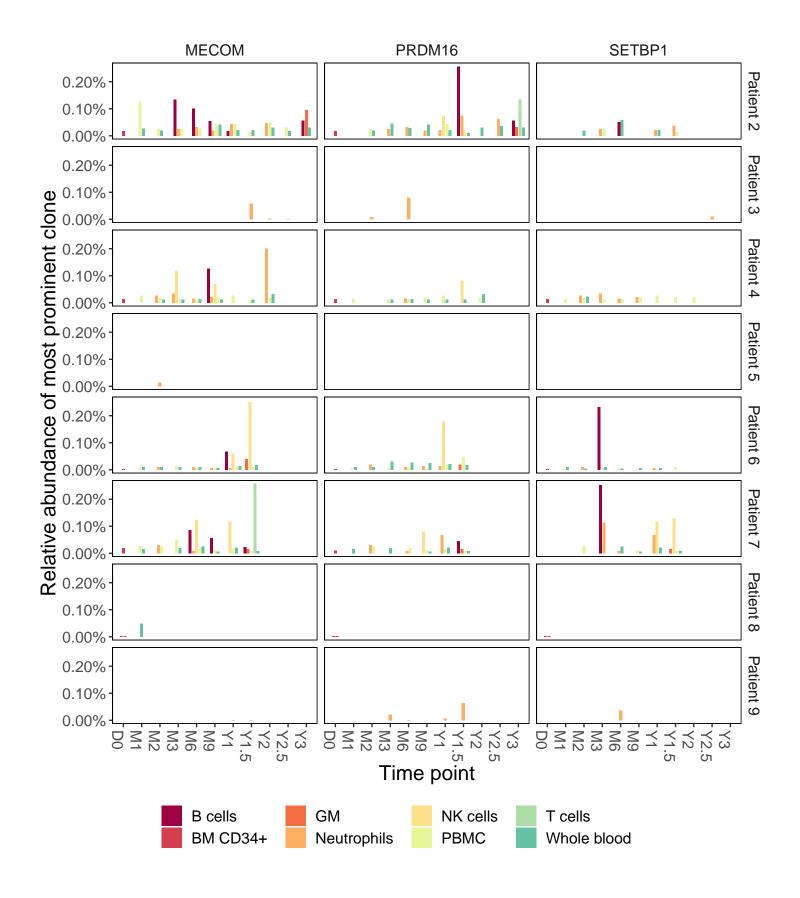
Bar graph format



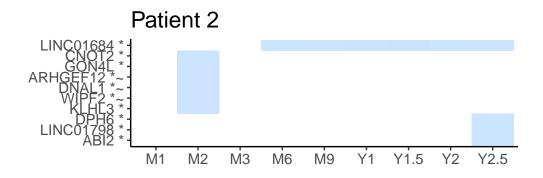
Observerd integrations

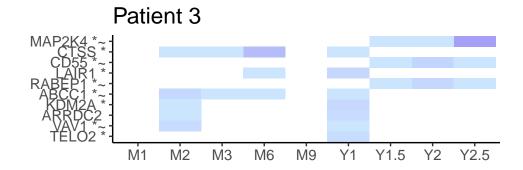
log10 scale line plot format.

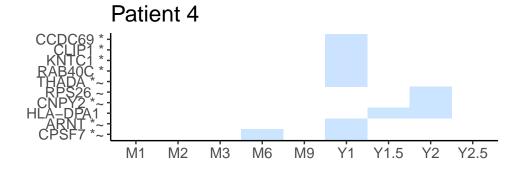


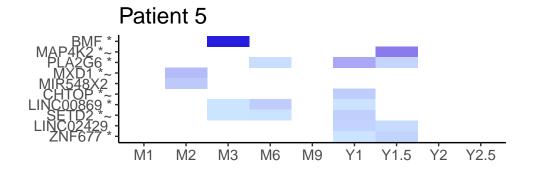


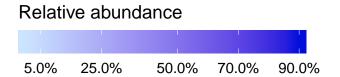
Neutrophils heat maps



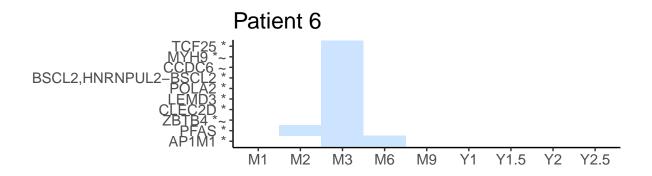


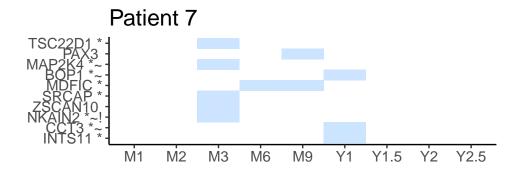


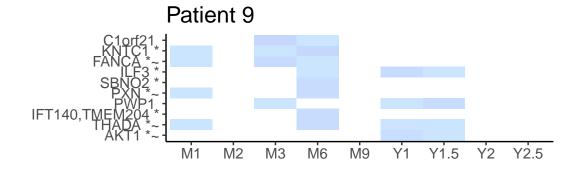


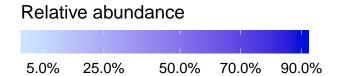


Neutrophils heat maps (cont.)









Sample and data collection summary

Patient 2 Patient 2 Patient 2 Patient 2 Patient 2 Patient 2	D0 M1	BM CD34+	228,684						
Patient 2 Patient 2	M1		,	6,000	5,902	0.016	8.68	0.999	2,903
Patient 2		Whole blood	811,500	3,701	3,473	0.058	8.13	0.997	1,623
	M1	PBMC	819,709	1,585	1,370	0.123	7.16	0.991	578
Patient 2	M1.5	Whole blood	$391,\!644$	3,061	2,889	0.054	7.94	0.997	1,359
	M1.5	PBMC	$729,\!808$	3,079	2,760	0.095	7.88	0.994	1,221
Patient 2	M1.5	T cells	$14,\!827$	20	16	0.188	2.59	0.935	7
Patient 2	M1.5	Neutrophils	823,166	5,086	4,768	0.059	8.44	0.997	2,226
Patient 2	M1.5	B cells	$14,\!187$	15	15	0.000	2.71	1.000	8
Patient 2	M1.5	NK cells	$421,\!212$	279	214	0.191	5.27	0.982	75
Patient 2	M2	Whole blood	$935,\!273$	5,308	4,881	0.074	8.46	0.996	2,228
Patient 2	M2	PBMC	834,192	4,104	3,823	0.065	8.22	0.996	1,772
Patient 2	M2	T cells	19,907	9	8	0.097	2.04	0.983	4
Patient 2	M2	Neutrophils	846,993	1,629	1,327	0.155	7.12	0.990	513
Patient 2	M2	B cells	803,159	582	437	0.210	5.96	0.981	147
Patient 2	M2	NK cells	824,410	496	341	0.260	5.67	0.972	94
Patient 2	M3	Whole blood	$922,\!656$	4,459	3,977	0.099	8.24	0.995	1,748
Patient 2	M3	PBMC	1,081,487	4,143	3,638	0.109	8.15	0.994	1,567
Patient 2	M3	T cells	10,243	15	12	0.172	2.40	0.964	5
Patient 2	M3	Neutrophils	$752,\!277$	4,147	3,889	0.059	8.24	0.997	1,816
Patient 2	M3	B cells	840,852	741	555	0.216	6.18	0.978	185
Patient 2	M3	NK cells	$787,\!485$	749	584	0.195	6.25	0.981	210
Patient 2	M6	Whole blood	$835{,}725$	3,461	3,174	0.077	8.03	0.996	1,444
Patient 2	M6	PBMC	781,640	3,633	3,361	0.070	8.09	0.996	1,545
Patient 2	M6	T cells	747,431	229	143	0.335	4.62	0.932	29
Patient 2	M6	Neutrophils	856,984	3,134	2,907	0.068	7.94	0.996	1,341
Patient 2	M6	B cells	802,830	1,996	1,768	0.105	7.43	0.993	771
Patient 2	M6	NK cells	681,244	897	729	0.165	6.50	0.986	281
Patient 2	M9	Whole blood	719,175	2,369	2,150	0.085	7.64	0.995	966
Patient 2	M9	PBMC	733,032	2,354	2,165	0.075	7.64	0.995	989
Patient 2	M9	T cells	749,273	145	96	0.319	4.16	0.911	24
Patient 2	M9	Neutrophils	673,911	5,403	5,119	0.050	8.51	0.997	2,418
Patient 2	M9	B cells	497,904	1,818	1,633	0.094	7.35	0.994	725
Patient 2	M9	NK cells	436,854	269	202	0.222	5.15	0.970	68
Patient 2	Y1	Whole blood	854,698	4,706	4,354	0.071	8.33	0.994	2,002
Patient 2	Y1	PBMC	366,836	2,342	2,257	0.035	7.71	0.998	1,087
Patient 2	Y1	T cells	719,832	816	656	0.184	6.32	0.974	249
Patient 2	Y1	Neutrophils	740,040	4,524	4,230	0.062	8.30	0.994	1,969
Patient 2	Y1	B cells	724,673	5,966	5,352	0.094	8.54	0.995	2,370
Patient 2	Y1	NK cells	759,335	1,360	1,163	0.132	6.98	0.989	484
Patient 2	Y1.5	Whole blood	815,415	9,082	8,380	0.074	8.98	0.994	3,840
Patient 2	Y1.5	PBMC	742,538	7,155	6,851	0.041	8.81	0.998	3,274
Patient 2	Y1.5	T cells	714,046	307	250	0.167	5.42	0.981	97
Patient 2	Y1.5	Neutrophils	564,447	2,681	2,504	0.063	7.77	0.993	1,164
Patient 2	Y1.5	B cells	779,683	782	678	0.123	6.45	0.989	288
Patient 2	Y1.5	NK cells	750,430	552	417	0.205	5.92	0.981	142
Patient 2	Y2	Whole blood	669,770	3,353	3,125	0.263 0.064	8.01	0.996	1,449
Patient 2	Y2	PBMC	772,240	2,034	1,855	0.082	7.49	0.995	839
Patient 2	Y2	T cells	580,973	409	350	0.032	5.78	0.987	146
Patient 2	Y2	Neutrophils	603,261	4,158	3,832	0.132 0.074	8.21	0.987 0.995	1,754
Patient 2	Y2	B cells	1,245,364	2,898	2,563	0.074 0.106	7.80	0.993	1,115
Patient 2	Y2	NK cells	751,802	388	284	0.100 0.242	5.45	0.964	91
Patient 2	Y2.5	Whole blood	403,870	5,462	5,039	0.242 0.073	8.49	0.904 0.995	2,309
Patient 2	Y2.5	PBMC	405,870	3,208	3,060	0.073 0.044	8.00	0.995 0.997	$\frac{2,309}{1,457}$
Patient 2	Y2.5	T cells	459,656	186	152	0.044 0.159	4.94	0.997 0.984	60
Patient 2	Y2.5					0.139 0.064	7.28	0.984 0.996	
		Neutrophils R colls	259,042	1,602	1,493 240				693
Patient 2	Y2.5	B cells	5,815	240		0.000	5.48	1.000	121
Patient 2	Y2.5	NK cells	322,259	647	606	0.060	6.38	0.996	283
Patient 2	Y3	Whole blood	542,746	3,292	2,986	0.087	7.96	0.994	1,341
Patient 2 Patient 2	Y3 Y3	PBMC T cells	451,535 $374,559$	2,852 750	2,655 603	$0.066 \\ 0.185$	$7.85 \\ 6.20$	$0.995 \\ 0.968$	1,230 229

Patient Timepoint CellType TotalReads InferredCells UniqueSites Gini Shar Patient 2 Y3 GM 855,535 3,176 2,824 0.100 7.90 Patient 2 Y3 B cells 39,673 1,752 1,716 0.020 7.44 Patient 3 M2 Neutrophils 78,305 1,703 1,665 0.022 7.41 Patient 3 M3 Neutrophils 24,656 1,353 1,313 0.029 7.17 Patient 3 M6 Neutrophils 88,650 1,526 1,481 0.029 7.29 Patient 3 Y1 Neutrophils 94,011 960 918 0.043 6.79 Patient 3 Y1 T cells 75,970 70 60 0.132 4.01 Patient 3 Y1 B cells 43,178 517 433 0.144 5.99 Patient 3 Y1 Monocytes 56,850 605 498 0.158 <th>0.994 1 0.999 8 0.968 7 0.999 8 0.998 6 0.998 7 0.996 4 0.980 2 0.987 1 0.976 6 0.981 1</th> <th>UC50 1,237 841 79 814 637 719 439 26 175 60 196 1,362</th>	0.994 1 0.999 8 0.968 7 0.999 8 0.998 6 0.998 7 0.996 4 0.980 2 0.987 1 0.976 6 0.981 1	UC50 1,237 841 79 814 637 719 439 26 175 60 196 1,362
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Patient 4 M2 Whole blood 556,011 8,807 8,669 0.015 9.06 Patient 4 M2 PBMC 296,620 5,768 5,716 0.009 8.65 Patient 4 M2 T cells 733,741 142 94 0.326 4.00 Patient 4 M2 Neutrophils 412,840 3,698 3,608 0.024 8.18 Patient 4 M2 B cells 506,410 289 208 0.238 5.18 Patient 4 M2 NK cells 579,947 912 802 0.110 6.63 Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94	0.991 2	259
Patient 4 M2 PBMC 296,620 5,768 5,716 0.009 8.65 Patient 4 M2 T cells 733,741 142 94 0.326 4.00 Patient 4 M2 Neutrophils 412,840 3,698 3,608 0.024 8.18 Patient 4 M2 B cells 506,410 289 208 0.238 5.18 Patient 4 M2 NK cells 579,947 912 802 0.110 6.63 Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94		3,546
Patient 4 M2 T cells 733,741 142 94 0.326 4.00 Patient 4 M2 Neutrophils 412,840 3,698 3,608 0.024 8.18 Patient 4 M2 B cells 506,410 289 208 0.238 5.18 Patient 4 M2 NK cells 579,947 912 802 0.110 6.63 Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94		4,266
Patient 4 M2 Neutrophils 412,840 3,698 3,608 0.024 8.18 Patient 4 M2 B cells 506,410 289 208 0.238 5.18 Patient 4 M2 NK cells 579,947 912 802 0.110 6.63 Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94		2,833
Patient 4 M2 B cells 506,410 289 208 0.238 5.18 Patient 4 M2 NK cells 579,947 912 802 0.110 6.63 Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94		24
Patient 4 M2 NK cells 579,947 912 802 0.110 6.63 Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94		1,760
Patient 4 M3 Whole blood 623,037 7,824 7,663 0.020 8.94		64
		347
Patient 4 M3 PBMC 514 151 8 969 8 803 0.018 9.08		3,752
		4,319
Patient 4 M3 T cells 219,935 345 326 0.054 5.73		154
Patient 4 M3 Neutrophils 484,363 2,960 2,846 0.037 7.94		1,367
Patient 4 M3 B cells 559,728 1,042 920 0.107 6.77		400
Patient 4 M3 NK cells 833,981 844 696 0.156 6.45 Patient 4 M6 Whole blood 485,703 7,335 7,055 0.037 8.85		275
		3,388 3,414
Patient 4 M6 PBMC 746,246 7,449 7,138 0.040 8.86 Patient 4 M6 Neutrophils 696,184 6,218 5,901 0.049 8.66		2,793
Patient 4 M6 B cells 562,743 523 425 0.171 5.93		164
Patient 4 M6 NK cells 571,188 683 529 0.206 6.09		188
Patient 4 M9 Whole blood 649,117 8,554 8,088 0.052 8.97		3,812
Patient 4 M9 PBMC 703,729 5,312 5,053 0.047 8.51		2,398
Patient 4 M9 T cells 49,533 11 7 0.234 1.85		3
Patient 4 M9 Neutrophils 456,379 4,727 4,437 0.058 8.37		2,074
Patient 4 M9 B cells 897,529 1,583 1,454 0.076 7.25		663
Patient 4 M9 NK cells 1,053,997 1,431 1,241 0.123 7.04		526
Patient 4 Y1 Whole blood 866,630 8,830 8,126 0.075 8.97		3,712
Patient 4 Y1 PBMC 917,504 3,771 3,551 0.056 8.15		1,666
Patient 4 Y1 Neutrophils 868,550 744 614 0.160 6.32		243
Patient 4 Y1 B cells 938,080 129 83 0.252 4.29		26
Patient 4 Y1 NK cells 819,277 308 224 0.227 5.28	0.976	71
Patient 4 Y1.5 Whole blood 231,682 7,748 7,102 0.078 8.83	0.995 3	3,229
Patient 4 Y1.5 PBMC 203,629 9,665 8,800 0.084 9.04	0.995	3,968
Patient 4 Y1.5 T cells 192,342 304 276 0.088 5.56	0.990	125
Patient 4 Y1.5 Neutrophils 232,351 3,061 2,905 0.049 7.95	0.997 1	1,375
Patient 4 Y1.5 B cells 171,563 1,846 1,800 0.024 7.48	0.998 8	878
Patient 4 Y1.5 NK cells 179,928 1,209 1,102 0.085 6.94	0.991 4	498
Patient 4 Y2 Whole blood 330,956 3,135 2,954 0.055 7.96	0.997 1	1,387
Patient 4 Y2 PBMC 228,752 5,394 5,026 0.066 8.48		2,330
Patient 4 Y2 T cells 89,269 47 30 0.326 3.08		7
Patient 4 Y2 Neutrophils 262,355 498 466 0.061 6.12		218
Patient 4 Y2 B cells 253,779 1,083 1,045 0.034 6.94		504
Patient 4 Y2 NK cells 285,189 1,116 958 0.135 6.73		401
Patient 5 M2 Neutrophils 7,050 1,666 1,620 0.027 7.38		788
Patient 5 M3 Neutrophils 504 63 50 0.201 3.62		19
Patient 5 M6 Neutrophils 107 77 77 0.000 4.34		39
Patient 5 Y1 Neutrophils 47,309 129 123 0.045 4.79		59
Patient 5 Y1.5 Neutrophils 174,230 840 825 0.018 6.71	0.999	406

(continuea)									
Patient	Timepoint	CellType	TotalReads	InferredCells	UniqueSites	Gini	Shannon	Pielou	UC50
Patient 6	D0	BM CD34+	489,357	40,091	39,843	0.006	10.59	1.000	19,798
Patient 6	M1	Whole blood	927,964	9,577	9,233	0.035	9.12	0.998	4,445
Patient 6	M1	PBMC	$655,\!252$	23,393	22,712	0.028	10.02	0.999	11,016
Patient 6	M2	Whole blood	$758,\!462$	20,957	20,312	0.030	9.91	0.999	9,834
Patient 6	M2	PBMC	882,112	1,790	1,655	0.070	7.38	0.996	761
Patient 6	M2	T cells	74	1	1	0.000	0.00	NaN	1
Patient 6	M2	Neutrophils	747,982	10,600	10,322	0.026	9.23	0.999	5,023
Patient 6	M2	B cells	922,744	194	146	0.194	4.89	0.982	50
Patient 6	M2	NK cells	895,263	456	403	0.105	5.95	0.992	176
Patient 6	M3 M3	Whole blood PBMC	750,380 $883,998$	9,851 13,818	9,527	0.032	9.15 9.48	0.999 0.998	4,602 $6,355$
Patient 6 Patient 6	M3	T cells	301,804	15,616 5	13,263 4	$0.039 \\ 0.150$	9.48 1.33	0.998 0.961	0,333
Patient 6	M3	Neutrophils	1,070,469	1,497	1,234	0.150 0.153	7.04	0.989	486
Patient 6	M3	B cells	775,253	430	339	0.183	5.72	0.982	125
Patient 6	M3	NK cells	658,895	380	306	0.166	5.64	0.986	117
Patient 6	M6	Whole blood	692,994	18,691	16,424	0.111	9.65	0.994	7,079
Patient 6	M6	PBMC	712,309	21,692	18,721	0.124	9.77	0.993	7,876
Patient 6	M6	T cells	1,164,324	67	47	0.290	3.35	0.869	14
Patient 6	M6	Neutrophils	667,930	9,792	8,988	0.077	9.07	0.996	4,093
Patient 6	M6	B cells	821,116	720	588	0.160	6.29	0.987	229
Patient 6	M6	NK cells	$868,\!597$	774	618	0.173	6.34	0.986	232
Patient 6	M9	Whole blood	$549,\!231$	28,799	22,200	0.201	9.88	0.987	7,801
Patient 6	M9	PBMC	599,775	29,083	22,482	0.199	9.89	0.987	7,941
Patient 6	M9	T cells	11,705	4	4	0.000	1.39	1.000	3
Patient 6	M9	Neutrophils	564,783	13,594	11,655	0.129	9.29	0.993	4,859
Patient 6	M9	B cells	670,361	944	795	0.138	6.61	0.990	324
Patient 6 Patient 6	M9 Y1	NK cells Whole blood	214,095 $734,193$	720 13,585	671 $11,232$	$0.064 \\ 0.156$	6.48 9.23	$0.996 \\ 0.989$	$312 \\ 4,440$
Patient 6	Y1	PBMC	681,803	35,496	24,995	0.150 0.256	9.23	0.989	7,248
Patient 6	Y1	T cells	177,952	59 59	43	0.234	3.64	0.967	14
Patient 6	Y1	Neutrophils	887,574	13,737	11,277	0.161	9.23	0.989	4,409
Patient 6	Y1	B cells	847,035	1,484	1,359	0.079	7.17	0.995	618
Patient 6	Y1	NK cells	924,405	1,685	1,523	0.088	7.29	0.995	681
Patient 6	Y1.5	Whole blood	207,654	10,852	8,886	0.164	8.98	0.988	3,461
Patient 6	Y1.5	PBMC	174,075	10,771	8,866	0.160	8.99	0.989	3,481
Patient 6	Y1.5	T cells	10,054	36	36	0.000	3.58	1.000	19
Patient 6	Y1.5	GM	$199,\!158$	4,949	4,399	0.103	8.33	0.993	1,925
Patient 6	Y1.5	B cells	35,089	168	154	0.077	5.01	0.994	71
Patient 6	Y1.5	NK cells	175,275	798	732	0.076	6.56	0.995	334
Patient 7 Patient 7	D0 M1	BM CD34+ Whole blood	552,271 $575,229$	10,690 6,539	10,234 $6,441$	$0.041 \\ 0.015$	9.22 8.76	$0.998 \\ 0.999$	4,890 $3,172$
Patient 7	M1	PBMC	598,960	3,695	3,574	0.013	8.17	0.999 0.998	1,727
Patient 7	M2	Whole blood	499,523	1,883	1,816	0.032 0.034	7.49	0.998	875
Patient 7	M2	PBMC	691,359	3,612	3,495	0.034 0.032	8.15	0.998	1,690
Patient 7	M2	T cells	615,807	238	151	0.332	4.65	0.927	33
Patient 7	M2	Neutrophils	591,947	3,221	3,105	0.035	8.03	0.998	1,495
Patient 7	M2	B cells	530,071	206	160	0.198	4.94	0.974	58
Patient 7	M2	NK cells	651,775	1,507	1,359	0.091	7.17	0.994	606
Patient 7	M3	Whole blood	$74,\!546$	5,398	5,340	0.011	8.58	1.000	2,642
Patient 7	M3	PBMC	81,124	1,995	1,965	0.015	7.58	0.999	968
Patient 7	M3	T cells	111,722	8	4	0.375	1.07	0.774	1
Patient 7	M3	Neutrophils	784,105	1,751	1,604	0.079	7.34	0.995	729
Patient 7	M3	B cells	690,263	396	308	0.193	5.61	0.980	111
Patient 7	M3 M6	NK cells	633,250	220	157	0.244	4.89	0.967	48
Patient 7 Patient 7	M6 M6	Whole blood PBMC	562,996 $587,203$	3,989 5,410	3,879 $5,269$	$0.027 \\ 0.025$	$8.25 \\ 8.56$	0.999 0.999	1,885 2,565
Patient 7 Patient 7	M6	T cells	254,024	5,410 55	5,269 34	0.025 0.363	$\frac{8.50}{2.97}$	0.999 0.842	2,565
Patient 7	M6	Neutrophils	594,523	11,246	10,954	0.025	9.29	0.842 0.999	5,332
Patient 7	M6	B cells	722,954	1,162	1,059	0.023 0.082	6.93	0.995	$\frac{3,352}{479}$
Patient 7	M6	NK cells	617,168	819	740	0.090	6.56	0.993	331
Patient 7	M9	Whole blood	565,346	13,606	13,101	0.036	9.46	0.998	6,299
Patient 7	M9	PBMC	609,445	7,885	7,603	0.035	8.92	0.998	3,661
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Patient	Timepoint	CellType	${\it Total Reads}$	${\bf Inferred Cells}$	${\bf Unique Sites}$	Gini	Shannon	Pielou	UC50
Patient 7	M9	T cells	595,543	96	60	0.331	3.78	0.924	13
Patient 7	M9	Neutrophils	$5,\!666$	1,622	1,606	0.010	7.38	0.999	796
Patient 7	M9	B cells	580,563	1,759	1,699	0.033	7.42	0.998	820
Patient 7	M9	NK cells	481,047	1,252	1,082	0.129	6.88	0.985	457
Patient 7	Y1	Whole blood	$711,\!657$	4,578	4,378	0.042	8.36	0.997	2,090
Patient 7	Y1	PBMC	584,483	6,363	6,031	0.051	8.67	0.996	2,850
Patient 7	Y1	T cells	$32,\!417$	30	27	0.094	3.25	0.985	13
Patient 7	Y1	Neutrophils	597,636	1,484	1,409	0.049	7.23	0.997	668
Patient 7	Y1	B cells	362,795	1,320	1,262	0.042	7.12	0.997	603
Patient 7	Y1	NK cells	524,942	850	702	0.163	6.42	0.979	278
Patient 7	Y1.5	Whole blood	449,284	12,292	11,232	0.083	9.23	0.990	5,087
Patient 7	Y1.5	PBMC	473,294	11,200	10,126	0.093	9.09	0.986	4,527
Patient 7	Y1.5	T cells	$472,\!514$	389	283	0.237	5.48	0.970	89
Patient 7	Y1.5	GM	549,929	6,057	5,655	0.065	8.57	0.992	2,627
Patient 7	Y1.5	B cells	537,995	4,385	4,151	0.052	8.28	0.994	1,959
Patient 7	Y1.5	NK cells	$566,\!530$	2,335	1,665	0.274	7.02	0.946	498
Patient 8	D0	BM CD34+	$265,\!184$	49,283	49,039	0.005	10.80	1.000	24,398
Patient 8	D0	BM CD34+	$227,\!489$	37,916	37,754	0.004	10.54	1.000	18,797
Patient 8	M1	Whole blood	$165,\!420$	2,035	1,957	0.037	7.56	0.998	940
Patient 8	M1	PBMC	$118,\!407$	1,193	1,155	0.031	7.04	0.998	559
Patient 9	M1	Neutrophils	$50,\!391$	1,680	1,657	0.014	7.41	0.999	818
Patient 9	M3	Neutrophils	39,304	836	817	0.022	6.70	0.999	400
Patient 9	M6	Neutrophils	$58,\!160$	1,120	1,108	0.011	7.01	0.999	549
Patient 9	Y1	T cells	14,630	41	35	0.128	3.50	0.984	15
Patient 9	Y1	B cells	$55,\!682$	269	198	0.227	5.13	0.970	64
Patient 9	Y1	NK cells	51,028	289	197	0.273	5.05	0.956	53
Patient 9	Y1	Monocytes	70,759	168	137	0.170	4.80	0.976	54
Patient 9	Y1	Neutrophils	$63,\!481$	1,981	1,919	0.030	7.55	0.998	929
Patient 9	Y1.5	Neutrophils	424,928	2,972	2,833	0.045	7.93	0.997	1,348