

Longitudinal analysis of the evolution of cellular immunity to SARS-CoV-2 induced by infection and vaccination

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Supplementary Table 1.
SARS-CoV-2- specific T cell
responses (SFC/2x10⁵ VSTs)

		Infected donors																	
D#	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
D#1	Pre-I	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo2 post-I	6768	63	3292	5965	9	30	0	13	49	55	13	7	16	63	226	13	96	53
	Pre-V	2917	2	547	1994	1	0	0	1	0	2	0	2	0	0	6	4	0	0
	Post-V1	7067	24	4483	6120	0	0	0	0	0	0	0	31	nt	98	nt	18	45	28
	Post-V2	7115	45	5605	5139	0	5	7	14	11	20	1	14	1	7	20	32	39	97
	Mo3 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo4 post-V	9682	0	1302	3139	0	3	0	0	12	7	0	2	0	0	2	14	0	0
	Mo5 post-V	6464	0	545	4950	0	16	0	0	0	17	0	22	8	6	5	0	3	0
	Mo6 post-V	2919	4	640	2116	0	2	0	0	0	16	0	0	1	9	3	3	0	0
	Pre-B	5667	45	925	4236	0	0	0	8	0	46	114	0	17	73	12	13	0	0
	Mo1 post-B	4072	0	614	4128	0	0	0	0	0	0	0	0	0	9	0	0	42	0
	Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo8 post-B	1557	0	570	3079	2	26	1	20	6	19	0	0	5	7	0	0	9	0
D#2	Pre-I	32	2	3	266	1	3	1	1	1	1	0	4	1	1	3	2	0	14
	Mo2 post-I	2498	18	4496	1935	16	257	16	6	68	104	3	385	6	9	9	15	6	11
	Pre-V	6682	0	5733	6457	132	0	712	0	2	0	0	20	50	125	31	93	56	2
	Post-V1	4788	6	1108	1254	8	151	3	57	73	222	0	129	8	0	4	36	4	9
	Post-V2	7234	0	2661	2303	0	0	0	0	2	55	0	209	0	0	0	0	0	0
	Mo3 post-V	5330	2	1483	1322	0	7	3	11	15	14	0	92	7	3	4	1	1	0
	Mo4 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo5 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo6 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Pre-B	1814	13	1051	1026	5	20	17	4	23	13	2	125	0	0	1	6	0	0
	Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo2 post-B	8195	0	2475	1443	0	23	0	0	9	16	0	0	0	0	14	14	0	5
	Mo8 post-B	5122	0	1916	1842	4	0	0	0	0	23	0	39	0	0	0	0	1	0
D#3	Pre-I	793	2	nt	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Mo2 post-I	1139	17	477	576	14	23	4	9	33	49	0	7	34	7	153	6	13	4
	Pre-V	3892	83	1154	1712	34	60	73	31	58	50	9	34	26	35	136	19	31	13
	Post-V1	7934	190	2190	1851	102	0	644	99	74	65	109	458	34	5	88	0	99	34
	Post-V2	2949	8	933	668	2	0	0	0	2	27	0	20	5	0	5	8	4	3
	Mo3 post-V	4285	144	1378	2387	24	12	27	13	23	264	0	4	0	9	32	22	0	11
	Mo4 post-V	3779	0	398	1058	27	8	48	0	36	59	7	58	18	9	0	0	3	0
	Mo5 post-V	1763	8	1042	591	12	13	8	1	1	16	3	5	6	2	3	0	4	8
	Mo6 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Pre-B	1214	121	513	767	0	1	30	0	21	142	1	8	6	0	3	7	1	9
	Mo1 post-B	2373	11	839	606	5	0	6	3	0	20	1	259	1	3	0	3	4	13
	Mo2 post-B	8575	0	913	65	0	0	0	0	0	17	0	52	0	0	20	0	0	0
	Mo8 post-B	6423	70	1596	682	5	14	0	11	12	13	0	42	0	94	30	21	2	19
D#4	Pre-I	142	6	30	5	0	2	4	10	5	11	1	16	1	5	3	1	6	7
	Mo2 post-I	3166	10	1456	1042	621	29	10	5	43	269	5	45	15	12	41	67	8	12
	Pre-V	3703	23	1966	1931	1	20	2690	3	125	1240	1	17	29	20	11	25	16	38
	Post-V1	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Post-V2	4453	0	836	514	0	9	80	0	4	307	0	0	0	1	0	0	0	0*
D#5	Pre-I	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo2 post-I	5285	45	1272	784	26	0	6	71	0	38	6	0	0	100	0	39	43	59

	Pre-V	7353	9	11261	5335	0	0	20	0	82	0	0	13	0	25	0	0	0	2	
	Post-V1	6194	7	3764	2365	0	13	114	0	147	5	3	15	0	0	0	1	0	0	
	Post-V2	11777	0	4012	3956	0	0	0	0	0	0	0	54	0	0	9	0	0	28	
	Mo3 post-V	9006	90	2785	2644	89	37	51	7	13	93	102	28	10	84	97	90	43	656	
	Mo4 post-V	2682	0	1860	1037	0	0	0	0	31	0	0	0	77	109	12	141	71	162	
	Mo5 post-V	3112	1	745	955	6	5	28	13	259	4	4	11	5	19	0	3	7	1	
	Mo6 post-V	5557	30	3911	1250	5	11	26	3	39	11	6	8	8	10	14	0	0	23	
	Pre-B	1652	3	1282	912	0	1	27	1	28	6	0	1	1	0	7	0	0	25	
	Mo1 post-B	5951	0	2028	2059	19	11	13	3	31	13	18	25	16	45	21	5	4	19	
	Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Mo8 post-B	8884	7	2131	3483	12	13	13	11	49	14	13	286	10	9	7	5	5	26	
Vaccinated donors																				
D#6	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	360	4	23	61	6	4	0	22	8	9	4	9	5	12	2	2	6	68	
	Post-V1	2202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Post-V2	8344	0	0	162	0	0	0	0	0	9	29	0	0	0	0	0	17	0	
	Mo3 post-V	6774	0	13	3	0	2	0	0	2	0	12	1	0	1	0	3	1	0	
	Mo4 post-V	8509	1	1	10	0	0	0	13	0	2	0	10	0	1	2	0	0	11	
	Mo5 post-V	11661	0	19	13	4	0	1	18	44	13	7	61	0	6	0	0	0	11	
	Mo6 post-V	5077	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Mo1 post-B	1757	0	0	40	0	5	1	0	38	0	0	10	0	4	2	0	5	7	
Mo2 post-B	5133	0	0	0	0	0	0	0	0	0	0	0	4	6	0	0	0	0		
Mo8 post-B	10441	0	0	28	0	0	0	4	0	0	0	17	1	0	0	0	0	0		
D#7	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	733	18	14	13	7	23	12	5	10	8	5	7	3	3	4	3	5	6	
	Post-V1	8588	18	10	22	58	10	59	14	22	19	9	8	31	12	7	0	5	10	
	Post-V2	7904	0	0	0	0	0	9	0	3	0	0	0	35	7	0	14	10	20	
	Mo3 post-V	13333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Mo4 post-V	2448	0	5	5	2	5	0	4	2	0	0	13	0	1	0	5	0	0	
	Mo5 post-V	13251	0	9	0	0	0	0	0	0	0	0	85	0	0	0	0	0	26	
	Mo6 post-V	5606	5	19	2	15	0	10	5	0	1	0	0	0	0	0	2	0	0	
	Pre-B	5462	0	26	2	0	0	0	0	0	1	0	18	0	6	18	0	0	5	
	Mo1 post-B	7363	8	9	26	3	31	10	9	6	4	21	14	13	0	6	7	0	26	
Mo2 post-B	11271	29	20	0	32	23	22	12	9	12	38	45	24	9	11	0	18	14		
Mo8 post-B	12276	16	1845	4600	15	29	25	23	47	17	25	583	44	10	23	76	23	49		
D#8	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	413	4	4	5	4	2	3	2	2	1	1	12	3	2	6	4	2	13	
	Post-V1	1305	45	46	0	23	0	55	24	25	14	43	30	21	40	51	30	24	19	
	Post-V2	5976	0	0	0	25	27	0	0	0	0	0	0	54	133	0	0	0	0	
	Mo3 post-V	3094	11	34	2	26	16	39	4	28	17	6	12	23	27	0	18	12	34	
	Mo4 post-V	1260	0	37	44	23	35	30	29	13	56	39	13	0	12	14	0	0	0	
	Mo5 post-V	6504	77	0	70	141	31	103	289	31	38	105	17	46	74	28	98	100	46	
	Mo6 post-V	1617	1	1	0	2	0	14	7	6	6	11	11	0	1	10	9	0	9	
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc		
Mo8 post-B	2107	23	0	2	5	5	0	0	4	0	3	5	6	0	0	6	14	9		
D#9	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	172	31	62	0	0	1	14	1	27	66	2	0	5	9	17	7	0	13	
	Post-V1	1769	0	0	0	93	0	43	0	0	0	0	6	0	0	0	0	0	0	
	Post-V2	11670	9	77	19	227	12	95	0	375	111	1	0	392	412	36	8	18	10	
	Mo3 post-V	nt	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	
	Mo4 post-V	6256	0	0	2	10	0	0	38	0	0	73	0	35	23	22	0	0	0	
	Mo5 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Mo6 post-V	10128	0	0	0	21	0	0	0	9	6	0	7	0	0	0	0	0	0	
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
Mo1 post-B	11473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

	Mo2 post-B	13850	0	0	0	0	0	0	0	0	0	0	4	6	0	0	0	0*		
D#10	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	33	2	9	126	1	3	11	2	9	11	1	5	3	6	6	6	6	6	10
	Post-V1	755	7	33	135	15	8	0	1	14	7	8	8	1	0	4	0	0	0	0
	Post-V2	1181	1	64	28	0	0	0	0	39	0	0	0	49	44	3	0	1	19	
	Mo3 post-V	nt	14	87	87	0	0	2	0	0	14	0	0	9	3	3	7	5	23	
	Mo4 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo5 post-V	1078	4	110	6	2	2	0	0	6	1	10	4	4	6	0	0	0	0	
	Mo6 post-V	2934	0	10	16	0	0	0	0	0	0	0	0	0	0	0	0	13	20	
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
Mo8 post-B	1366	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	1		
D#11	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	140	1	70	2	0	0	18	25	0	15	2	15	0	3	3	1	6	118	
	Post-V1	207	0	0	5	0	0	6	0	5	0	0	0	0	0	0	0	0	39	
Post-V2	2972	3	12	14	10	1	46	5	7	4	2	6	11	55	106	8	4	207*		
D#12	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	812	3	18	1872	1	3	4	1	5	14	1	1	3	4	4	1	4	5	
	Post-V1	3844	0	0	3927	0	4	1	2	8	0	0	7	10	0	88	0	0	0	
	Post-V2	7215	51	2	351	11	0	0	31	8	0	4	0	0	24	0	0	0	0	
	Mo3 post-V	7030	0	0	1008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Mo4 post-V	4336	12	0	590	0	3	0	0	0	3	0	0	0	0	0	3	0	0	
	Mo5 post-V	10857	0	64	216	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Mo6 post-V	14091	6	0	722	0	0	0	0	0	0	0	0	0	0	0	0	33	40	
	Pre-B	10411	0	78	204	0	0	0	14	0	705	0	0	38	0	0	45	0	0	
Mo1 post-B	13610	14	9	327	21	21	1	26	19	0	0	12	29	0	0	0	0	0		
Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc		
Mo8 post-B	11061	3	15	237	2	5	6	4	14	13	2	15	0	1	4	9	0	0		
D#13	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	37	2	22	7	2	2	3	1	2	4	3	3	1	2	1	2	6	18	
	Post-V1	5866	7	82	5	0	0	0	0	0	1	0	6	6	5	4	0	0	0	
	Post-V2	7040	0	0	0	0	79	0	0	0	164	124	44	31	5	0	0	0	29	
	Mo3 post-V	3849	0	20	6	0	2	0	0	5	1	0	5	1	0	4	1	2	11	
	Mo4 post-V	3105	3	33	1	0	0	0	0	0	1	0	0	0	0	0	0	2	16	
	Mo5 post-V	6365	1	17	13	3	12	2	8	12	5	4	0	5	1	3	1	3	0	
	Mo6 post-V	8062	0	2	6	22	0	0	0	0	0	0	0	0	2	0	0	0	2	
	Pre-B	740	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	14	
Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc		
Mo2 post-B	5083	56	34	9	0	12	61	16	26	30	23	25	43	1	0	19	8	37*		
D#14	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	58	8	16	45	7	1	12	5	6	5	3	5	8	11	16	3	6	5	
	Post-V1	601	0	0	29	0	0	0	12	27	88	66	82	55	41	66	31	34	34	
	Post-V2	9631	72	0	90	0	0	32	0	14	137	20	0	119	0	48	38	51	98	
	Mo3 post-V	1998	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	
Mo4 post-V	3294	0	3	1	3	3	0	2	16	4	5	3	12	16	4	0	4	0*		
D#15	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	354	6	7	20	2	6	15	11	11	3	9	22	5	7	3	9	9	8	
	Post-V1	4022	1	3	6	2	0	9	1	8	1	3	8	8	3	0	0	0	2	
	Post-V2	13334	188	142	86	139	74	144	206	85	52	74	52	18	45	76	101	24	52	
	Mo3 post-V	2652	8	22	6	0	21	7	6	0	14	8	6	0	114	108	5	38	47	
	Mo4 post-V	11727	0	2	8	0	2	4	0	0	1	1	1	3	0	0	0	0	4	
Mo5 post-V	8030	20	41	18	5	0	12	10	7	29	6	0	12	21	12	6	0	0		
Mo6 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc		
Pre-B	3160	0	0	0	1	0	0	0	0	0	3	0	0	1	0	0	0	0*		
D#16	Time	S	E	M	N	NSP					AP			NSP						

						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	150	4	4	1567	1	0	8	5	2	3	3	9	6	35	43	7	5	8	
	Post-V1	2833	0	0	4805	0	0	0	0	0	1	0	14	0	0	0	0	0	0	
	Post-V2	5881	10	0	1996	4	0	51	5	2	0	0	0	0	13	204	0	0	0	
	Mo3 post-V	4449	0	12	733	26	4	9	1	9	12	19	7	3	52	90	7	18	1	
	Mo4 post-V	4770	0	0	503	0	0	0	0	0	0	0	0	0	0	10	0	0	0	
	Mo5 post-V	6997	5	27	562	17	19	11	13	6	18	27	13	20	10	14	6	10	9	
	Mo6 post-V	2281	0	3	194	0	1	2	1	0	0	0	4	0	1	0	0	4	0	
	Pre-B	7652	24	0	2975	9	18	0	0	0	0	3	9	0	27	51	0	0	1	
	Mo1 post-B	10502	0	0	148	12	4	0	2	0	12	0	25	0	5	13	0	20	3	
	Mo2 post-B	4222	83	26	484	16	11	17	16	15	9	17	16	9	0	2	14	4	4	
	Mo8 post-B	4857	0	0	78	0	0	0	0	0	0	0	3	0	0	2	0	0	0	
D#17	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	43	3	14	8	2	1	4	7	10	11	3	1	3	6	3	1	11	8	
	Post-V1	1220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Post-V2	721	6	6	9	0	0	0	8	1	1	0	31	0	16	6	13	15	5	
	Mo3 post-V	13999	0	4	48	1	0	0	0	7	9	0	1	0	0	0	0	0	0	
	Mo4 post-V	6868	0	10	12	0	0	0	8	0	38	3	3	0	2	0	0	0	0	
	Mo5 post-V	10561	9	14	7	10	7	3	5	6	3	5	9	13	14	3	9	3	13	
	Mo6 post-V	13315	0	0	0	0	0	0	10	6	0	0	0	0	0	0	0	0	0	
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo1 post-B	8172	9	8	61	0	3	10	8	4	18	5	6	1	2	1	2	0	0	
	Mo2 post-B	13792	4	0	0	27	0	0	4	0	6	1	8	0	4	1	2	0	2	
Mo8 post-B	13059	2	2	2	5	8	3	6	6	5	1	4	3	4	3	1	4	3		
D#18	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	41	3	1	4	1	4	4	4	2	33	2	5	2	3	16	15	6	1	
	Post-V1	5486	95	86	69	357	38	62	14	97	3	18	24	227	234	16	51	69	62	
	Post-V2	2605	7	0	50	11	8	11	0	12	156	14	116	0	23	1	1	0	25	
	Mo3 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Mo4 post-V	8775	5	8	5	0	1	0	13	892	94	0	13	0	8	9	0	0	3	
	Mo5 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Mo6 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo2 post-B	6838	2	0	10	0	0	2	0	0	88	0	8	0	13	0	3	2	1	
Mo8 post-B	6878	3	4	6	0	5	4	2	14	91	11	18	0	0	0	2	0	1		
D#19	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	132	2	9	5	1	1	1	3	4	5	2	3	1	3	10	3	4	5	
	Post-V1	624	0	0	0	0	0	0	0	0	0	0	0	0	91	364	0	0	0	
	Post-V2	6630	159	22	22	62	30	11	37	18	24	78	28	11	33	12	11	28	18	
Mo3 post-V	3563	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1*		
D#20	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	81	14	10	1941	7	4	9	10	20	14	8	9	6	10	7	7	7	14	
	Post-V1	416	3	0	944	5	0	0	0	6	0	2	0	6	3	1	0	0	2	
	Post-V2	8200	11	nt	nt	0	18	10	24	14	0	4	0	0	7	5	0	0	47	
Mo3 post-V	nt	0	0	736	0	0	0	0	0	0	nt	0	0	0	0	0	nt	nt*		
D#21	Time	S	E	M	N	NSP					AP			NSP						
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16	
	Pre-V	146	1	8	3	2	7	1	2	10	26	3	4	25	19	34	21	4	11	
	Post-V1	311	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	0	0	
	Post-V2	12878	0	0	0	0	0	0	0	0	0	0	0	9	12	0	0	3	0	
	Mo3 post-V	12411	9	152	73	65	43	3	0	36	38	0	0	0	32	0	53	0	0	
	Mo4 post-V	4632	3	31	32	16	4	21	33	27	36	51	33	26	42	53	33	15	19	
	Mo5 post-V	4950	13	29	15	10	4	7	7	9	13	4	6	2	88	9	9	4	7	
	Mo6 post-V	6790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	21	
	Pre-B	1212	10	2	1	1	2	3	3	1	0	4	1	1	2	11	8	4	8	
Mo1 post-B	10481	0	0	31	0	0	0	9	6	5	0	21	32	34	0	0	0	3		
Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	

	Mo8 post-B	4386	1	0	1	2	2	5	3	1	3	0	4	0	9	23	2	2	5
D#22	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
	Pre-V	158	5	33	939	0	8	11	5	6	14	6	3	3	1	6	4	2	16
	Post-V1	1086	13	62	4144	75	6	39	49	8	19	0	25	8	9	0	10	51	44
	Post-V2	7051	0	12	505	29	7	22	18	4	9	30	27	0	26	12	3	0	19
	Mo3 post-V	2572	8	25	274	10	6	5	2	4	5	1	0	6	13	14	10	4	8
	Mo4 post-V	4820	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mo5 post-V	9963	56	76	98	62	64	49	45	61	65	44	105	28	35	14	8	15	21
Mo6 post-V	7057	0	0	0	0	0	15	0	2	38	0	0	0	0	0	0	0	8*	
D#23	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
	Pre-V	101	5	21	9	1	2	6	4	4	6	7	6	3	6	5	2	2	1
	Post-V1	184	0	159	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Post-V2	5327	7	99	33	0	6	0	0	4	3	0	19	243	235	115	0	6	29
	Mo3 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo4 post-V	5140	2	112	10	9	27	5	13	118	15	13	17	27	9	16	0	6	1
	Mo5 post-V	2442	0	3	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0
	Mo6 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Pre-B	1412	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	
Mo1 post-B	7986	0	93	9	0	0	0	2	0	0	0	0	0	0	0	0	0	0*	
D#24	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
	Pre-V	886	7	14	41	4	4	5	4	11	3	3	7	5	116	178	20	8	13
	Post-V1	1291	47	199	27	39	0	16	15	28	22	25	0	0	15	0	0	21	9
	Post-V2	12465	0	0	149	21	0	3	0	0	0	0	17	0	1	93	73	1	90
	Mo3 post-V	11348	10	42	250	1	23	14	11	29	0	8	10	0	73	161	17	13	10
	Mo4 post-V	4061	2	21	8	3	0	3	4	6	3	3	2	0	11	11	3	17	2
Mo5 post-V	4130	0	2	4	0	0	1	0	0	0	0	0	0	0	2	0	3	0*	
D#25	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
	Pre-V	149	8	16	11	7	8	5	9	6	3	4	14	9	12	10	7	3	11
	Post-V1	839	0	0	0	0	0	0	0	0	0	0	0	10	22	3	0	0	8
	Post-V2	13063	0	0	0	0	0	0	0	0	0	0	0	0	0	3	46	51	6
	Mo3 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo4 post-V	13089	0	1	11	0	0	11	0	0	0	2	2	7	1	6	0	0	0
	Mo5 post-V	8731	3	20	20	18	2	10	5	11	10	16	5	1	4	10	14	3	7
	Mo6 post-V	1609	11	0	0	69	0	0	63	0	0	0	0	0	0	0	0	0	0
	Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo1 post-B	5374	0	1	10	0	5	3	0	0	0	0	1	0	1	0	0	0	0	
Mo2 post-B	8012	4	0	31	3	0	0	0	0	0	0	12	0	0	0	0	0	11	
Mo8 post-B	3749	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	
D#26	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
	Pre-V	115	14	23	2628	22	25	15	12	18	3	10	12	17	7	18	10	8	5
	Post-V1	11083	0	50	876	0	0	0	40	0	0	0	0	0	0	0	0	0	9
	Post-V2	3492	1	9	413	0	0	3	3	2	5	1	4	0	2	2	2	5	4
	Mo3 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	Mo4 post-V	13358	2	9	196	1	5	1	0	2	1	0	2	1	7	7	1	5	4
	Mo5 post-V	6071	0	7	37	0	25	10	1	7	5	0	1	8	0	0	0	1	1
	Mo6 post-V	10883	19	80	401	41	36	42	19	13	29	40	29	32	26	20	61	5	16
	Pre-B	9911	11	21	911	9	11	13	9	0	5	0	16	7	5	51	0	0	3
Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	
Mo8 post-B	4766	0	0	134	0	3	0	2	0	2	0	7	0	0	6	2	0	0	
D#27	Time	S	E	M	N	NSP					AP			NSP					
						1	3	4	5	6	7A	7B	8	10	12	13	14	15	16
	Pre-V	886	5	0	1	1	0	0	0	0	0	2	0	0	4	0	0	0	4
	Post-V1	622	3	0	5	4	0	1	0	0	4	4	0	0	62	3	0	0	1
	Post-V2	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo3 post-V	1172	0	0	0	17	57	0	5	5	2	0	32	0	0	0	0	0	0	
Mo4 post-V	2386	0	104	1	4	3	0	1	0	20	0	0	0	0	27	8	0	4	

Mo5 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo6 post-V	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Pre-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo1 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo2 post-B	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
Mo8 post-B	3799	6	5	13	5	11	13	0	9	11	0	6	13	22	15	6	5	45

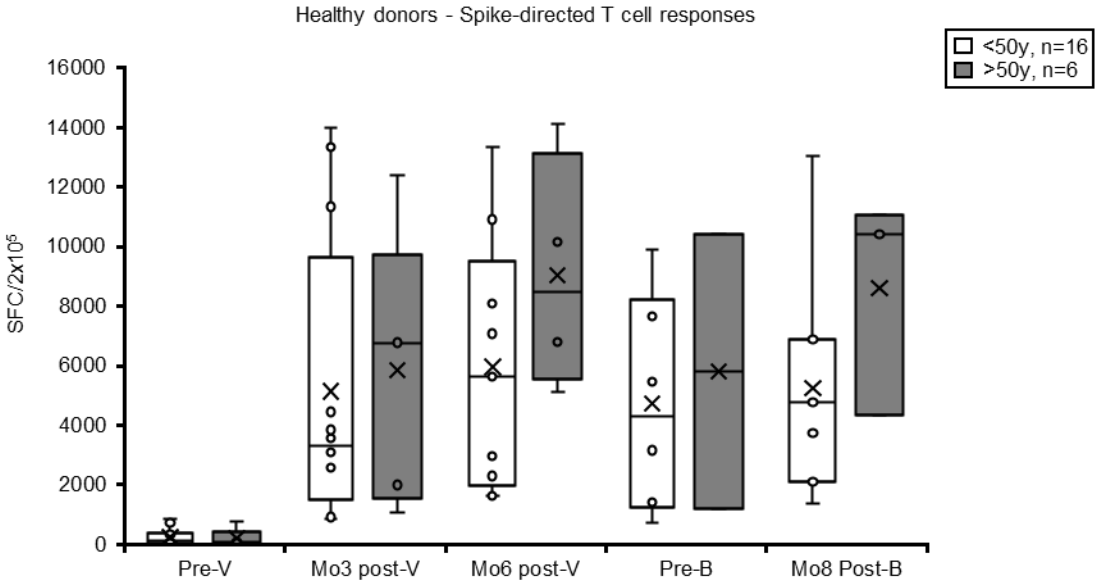
Pre-I: pre-infection; Post-I: post-infection; Pre-V: pre-vaccination; Post-V1: post-vaccination (dose 1); Post-V2: post-vaccination (dose 2); Pre-B: pre-booster; post-B: post-booster; nc: not collected; nt: not tested; *: last time point collected; †: donor infected post booster administration

Supplementary Figure Legends

Supplementary Figure 1: Spike-directed T cell immunity in <50y vs >50y vaccinated individuals as assessed by ELISpot assay in serial samples. Results are presented as SFC \pm SEM. Abbreviations: Pre-V: pre-vaccination; Post-V: post-vaccination; Pre-B: pre-booster; post-B: post-booster.

Supplementary Figure 2: Proportion of anti-SARS-CoV-2 T cells reactive against Spike and non-spike proteins in a boosted+infected (A) vs a boosted subject (B). Abbreviations: Post-V2: post-vaccine dose 2; Pre-B: pre-booster; post-B: post-booster.

Supplementary Figure 1



Supplementary Figure 2

