

dataset		10x annotation	IgBlast
PBMCs_of_a_healthy_donor	#cells	1363	1321
	#chains	4216	2644
PBMCs_CD19	#cells	1231	1204
	#chains	3933	2753
Human_NSCLC_tumor	#cells	2977	2877
	#chains	7513	4871
GM12878_Human	#cells	854	854
	#chains	2700	1699
PBMCs_C57BL_6_mice	#cells	4761	4738
	#chains	17154	9627
PBMCs_BALB/c_mice	#cells	4852	4827
	#chains	17598	10517
C57BL_6_mouse_splenocytes	#cells	4424	4420
	#chains	16036	9519

Table1: Comparison of number of cells and chains

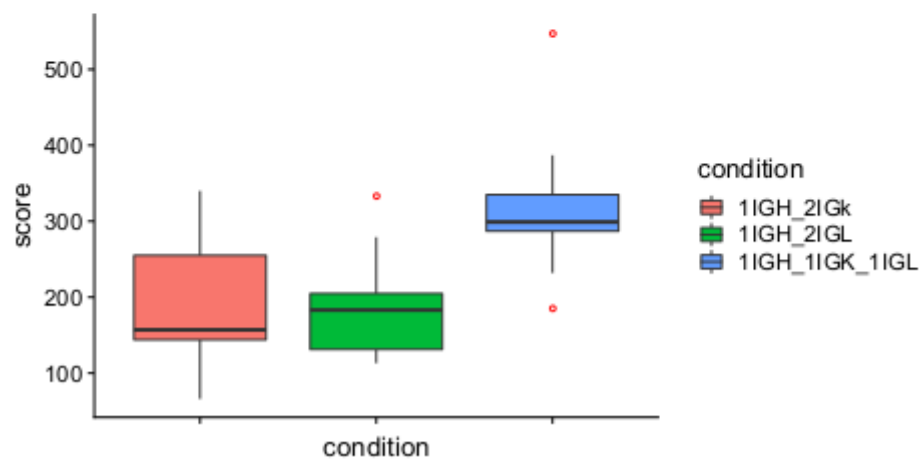
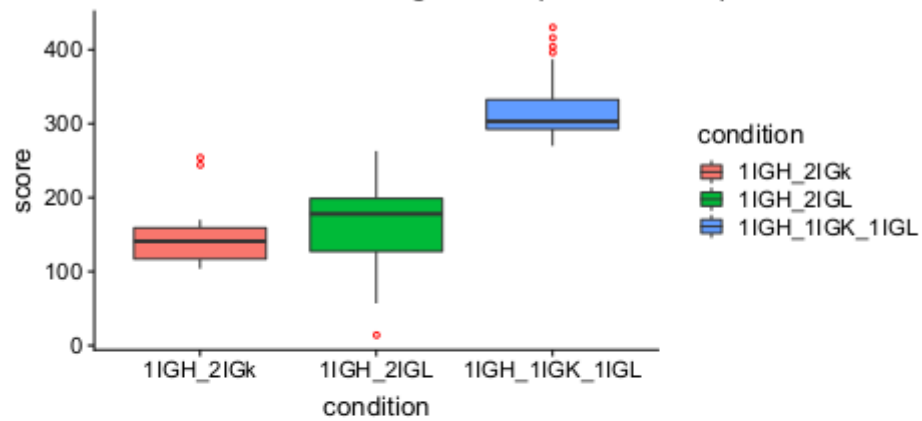
	1IGH	1IGK	1IGL	1IGH_1IGK	1IGH_1IGL	1IGH_2IGK	1IGH_1IGK_1IGL	Other
	PBMCs_of_a_healthy_donor							
10x annotation	0.44%	2.20%	0.59%	35.51%	23.11%	4.04%	8.66%	25.46%
IgBlast	0.76%	3.33%	1.59%	49.66%	39.44%	0.76%	1.74%	2.73%
	PBMCs_CD19							
10x annotation	0.41%	1.87%	0.81%	35.34%	18.20%	3.57%	11.29%	28.51%
IgBlast	0.91%	3.32%	1.16%	47.34%	27.57%	1.74%	4.57%	13.37%
	Human_NSCLC_tumor							
10x annotation	2.69%	6.28%	4.20%	30.94%	22.04%	3.53%	9.67%	20.66%
IgBlast	5.53%	17.52%	12.13%	33.79%	23.53%	0.80%	1.70%	5.01%
	GM12878_human							
10x annotation	0.70%	-----	1.17%	0.47%	52.34%	-----	0.35%	44.96%
IgBlast	0.94%	-----	1.64%	0.59%	94.50%	-----	0.23%	2.11%
	PBMCs_C57BL_6_mice							
10x annotation	0.06%	2.84%	0.53%	15.46%	3.70%	5.42%	32.51%	39.49%
IgBlast	1.08%	14.06%	1.39%	58.48%	7.75%	7.60%	2.24%	7.41%
	PBMCs_BALB/c_mice							
10x annotation	0.12%	2.35%	0.27%	19.11%	2.23%	6%	34.67%	35.26%
IgBlast	0.60%	8.60%	0.37%	65.86%	6.03%	6.98%	1.72%	9.84%
	C57BL_6_mouse_splenocytes							
10x annotation	0.07%	1.20%	0.05%	32.59%	2.60%	12.50%	17.74%	33.25%
IgBlast	0.68%	4.73%	0.32%	72.58%	4.98%	7.38%	3.19%	6.15%

Table2: B cells distribution by chain type

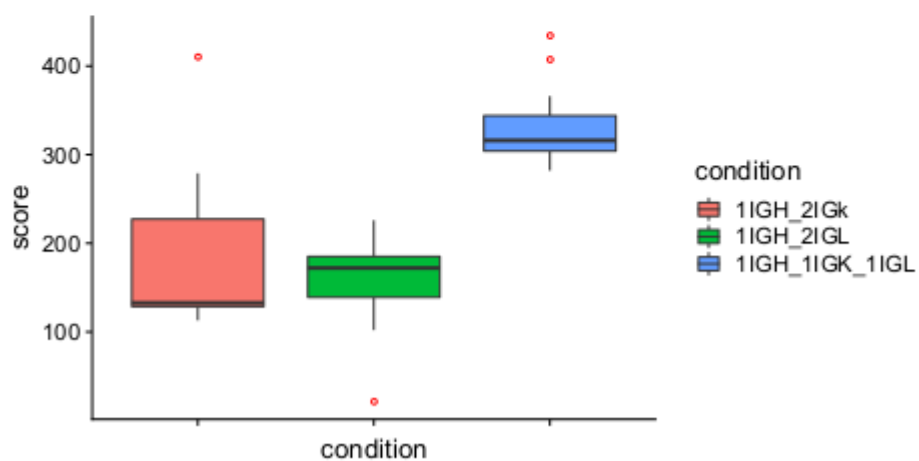
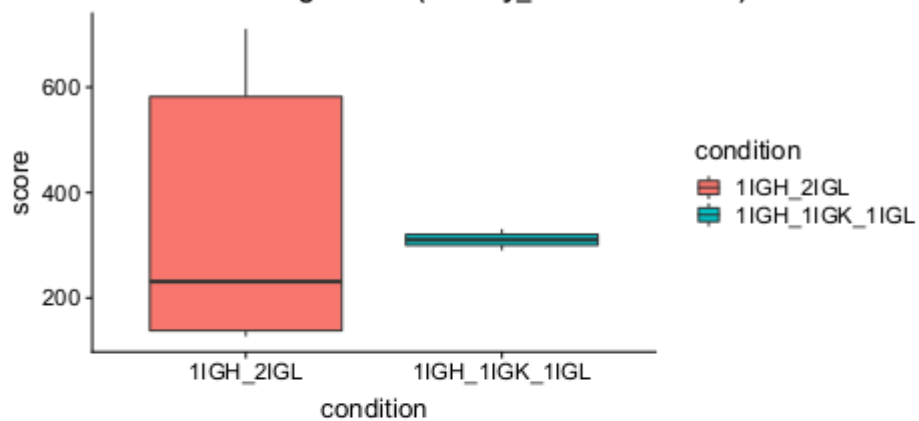
	1 chain	2 chains	3 chains	4 chains	5 chains	6 chains	> 6 chains
PBMCs_of_a_healthy_donor							
10x annotation	1.91%	24.72%	44.02%	22.45%	5.43%	1.09%	0.07%
IgBlast	5.68%	89.10%	4.62%	0.61%	-----	-----	-----
PBMCs_CD19							
10x annotation	1.79%	29.57%	38.10%	18.12%	6.58%	3.49%	2.27%
IgBlast	5.40%	75.33%	9.88%	6.06%	2.08%	0.83%	0.42%
Human_NSCLC_tumor							
10x annotation	10.65%	44.58%	30.53%	10.85%	2.82%	0.54%	0.03%
IgBlast	35.18%	60.90%	3.37%	0.56%	-----	-----	-----
GM12878_human							
10x annotation	0.70%	32.08%	34.54%	19.67%	9.60%	2.81%	0.59%
IgBlast	2.58%	96.02%	1.29%	0.12%	---	----	----
PBMCs_C57BL_6_mice							
10x annotation	2.14%	15.04%	29.76%	33.8%	15.04%	3.68%	0.54%
IgBlast	16.53%	68.64%	10.98%	3.02%	0.74%	0.08%	0.02%
C57BL_6_mouse_splenocytes							
10x annotation	0.70%	14.58%	33.43%	31.62%	14.22%	3.98%	1.47%
IgBlast	5.72%	78.19%	11.97%	3.44%	0.52%	0.11%	0.05%
PBMCs_BALB/c_mice							
10x annotation	1.85%	15.83%	31.45%	30.26%	13.66%	4.53%	2.4%
IgBlast	9.57%	73.13%	10.36%	4.89%	1.31%	0.41%	0.33%

Table2: B cells distribution by number of chains in a cell

Plot of distance between two light chain (CD19-NSCLC)



Distance between two light chain(healthy_donor-GM12878)



of distance between two light chain(BALBc-splenocytes-C57BL)

