

Supplementary Table 1. Overview of glioma studies in discovery set

	TOTAL		Glioma International Case Control Study [1]		MD Anderson GWAS [2, 3]		San Francisco Adult Glioma Study [4]		Gliomascan [5]		UK GWAS [2, 3, 6]		German GWAS [3]		French GWAS [3, 6]		USCF-Mayo [1, 4, 7, 8]	
	Cases	Controls	Cases	Controls	Cases	Controls	Cases	Controls	Cases	Controls	Cases	Controls	Cases	Controls	Cases	Controls	Cases	Controls
Total^a	12,455	18,169	4,564	3,265	1,175	2,236	677	3,940	1,652	2,725	631	2,699	846	1,310	1,423	1,190	1,519	804
<i>GB</i>	6,183	--	2,460	--	652	--	511	--	903	--	270	--	431	--	430	--	526	--
<i>Non-GB</i>	5,820	--	1,898	--	523	--	166	--	472	--	361	--	415	--	993	--	992	--
<i>WHO grade II-III Astrocytoma</i>	--	--	894	--	243	--	166	--	235	--	**	--	**	--	**	--	**	--
<i>WHO grade II-III Oligodendroglioma</i>	--	--	576	--	149	--	0	--	157	--	**	--	**	--	**	--	**	--
Sex																		
<i>Male</i>	7,513	6,487	2,733	1,868	771	1,094	440	1,553	943	1,465	394	**	474	**	816	**	942	507
<i>Female</i>	5,046	6,483	1,831	1,397	476	1,142	237	2,387	709	1,260	237	**	372	**	607	**	577	297
Mean Age	--	--	54	54	46	** ^b	54	33	56	67	46 ^c		51 ^c		48 ^c	** ^d	54	54
Array	--	--	Illumina Oncoarray		Illumina610Q		Illumina370D		Illumina 610Q, Illumina 550K, Illumina 660W		Illumina 610Q		Illumina 610Q		Illumina 610Q		Illumina Oncoarray	
Source of controls	--		Clinic and population-based		CGEMS breast and prostate controls [9, 10]		Population-based controls and Illumina IControlDB IControls		Cases and matched controls from: AHS, CLUE, CPS-II, CoSM/SMC, GLIOGENE, HPFS, INT-SD, MCCS, MEC, NCI-BTS, NHS, NIOSH-UMHS, NSHDS, NYUWHS, PHS, PLCO, SMWHS, VITAL, WHS [11-28]		1958 UK birth cohort		Three population studies: KORA, POPGEN, and the Heinz Nixdorf Recall study[29-31]		ascertained from the SU.VI.MA [32]		Mayo Clinic general medical exam controls	

^a Histology information not available for all cases and frequencies may not add to 100%

^b Continuous age is not available, age distribution in males is 50-59: 12.3%, 60-69: 56.7%, 70-79: 30.7%, 80-89: 0.3% and age distribution in females is: 0-54: 4.3%, 55-59: 15.0%, 60-64: 23.6%, 65-69: 27.5%, 70-74: 19.0%, 75-79: 10.7%;

^c Age data available only for pooled sample

^d women aged 35–60 years; men aged 45–60 years

Supplementary Table 2. Overview of included studies of immune and atopic traits

Autoimmune or atopic disease	N	Cases	Controls	Sample Prevalence	Population Prevalence	Without HLA region					With HLA region				
						Heritability (h ²) (SE)	λ	Max(χ^2)	Intercept (SE)	Ratio ^a	Heritability (h ²) (SE)	λ	Max(χ^2)	Intercept (SE)	Ratio
Auto-immune diseases															
Celiac disease (Dubois, et al. 2010) [33]	15,283	4,533	10,750	29.66%	0.74%[34]	0.16 (0.01) ^b	1.11	1.14	1.06 (0.01)	0.47 (0.07)	0.16 (0.00) ^b	1.11	1.14	1.06 (0.01)	0.47 (0.07)
Crohn's disease (ICD-10: K50) (UK Biobank) [35]	361,194	968	360,226	0.27%	0.22%[35]	0.19 (0.05) ^c	1.04	1.04	1.0 (0.01)	0.05 (0.20)	0.19 (0.05) ^c	1.04	1.04	1.00 (0.01)	0.06 (0.20)
Lupus (Bentham, et al. 2015) [36]	13,210	7,219	5,991	54.65%	0.08%[37]	0.13 (0.01) ^b	1.17	1.22	1.11 (0.01)	0.50 (0.05)	0.21 (0.00) ^b	1.17	1.27	1.09 (0.02)	0.33 (0.07)
Multiple sclerosis (IMSGC, et al. 2011) [38]	27,148	9,772	17,376	36.00%	0.15%[39]	0.02 (0.01) ^b	1.03	1.08	1.06 (0.01)	0.66 (0.12)	0.05 (0.00) ^b	1.04	1.11	1.06 (0.01)	0.51 (0.09)
Primary biliary cirrhosis (Cordel, et al. 2015) [40]	13,239	2,764	10,475	20.88%	0.04%[41]	0.18 (0.01) ^b	1.05	1.11	1.00 (0.01)	0.03 (0.10)	0.19 (0.00)	1.06	1.12	1.01 (0.01)	0.05 (0.10)
Psoriasis (ICD-10: L40) (UK Biobank) [35]	361,194	487	360,707	0.13%	3.10%[42]	0.26 (0.11) ^c	1.02	1.02	0.99 (0.01)	< 0 ^d	0.30 (0.11) ^c	1.02	1.03	0.99 (0.01)	< 0 ^d
Rheumatoid arthritis (UK Biobank) [35]	361,194	1,605	359,589	0.44%	0.55%[43]	0.08 (0.04)	1.02	1.02	1.00 (0.01)	0.08 (0.30)	0.10 (0.04) ^c	1.02	1.03	1.00 (0.01)	0.13 (0.26)
Type 1 diabetes (UK Biobank) [35]	361,194	583	360,611	0.16%	0.50%[44]	0.19 (0.09) ^c	1.02	1.02	0.99 (0.01)	< 0 ^d	0.28 (0.11) ^c	1.02	1.03	1.00 (0.01)	< 0 ^d
Ulcerative colitis (Jostins, et al. 2012) [45]	27,728	6,945	20,783	25.05%	0.29%[46]	0.13 (0.01) ^b	1.24	1.30	1.17 (0.01)	0.57 (0.05)	0.13 (0.00) ^b	1.24	1.30	1.17 (0.01)	0.57 (0.05)
Atopic diseases (UK Biobank) [35]															
Hayfever or allergic rhinitis (doctor diagnosed)	91,787	20,904	70,883	22.77%	7.70%[47]	0.09 (0.04) ^c	1.04	1.04	1.01 (0.01)	0.23 (0.22)	0.10 (0.04)	1.04	1.04	1.01 (0.01)	0.21 (0.21)
Asthma (ICD-10: J45)	361,194	1,993	359,501	0.55%	13.60%[47]	0.06 (0.02) ^c	1.06	1.08	1.02 (0.01)	0.28 (0.11)	0.06 (0.02)	1.06	1.09	1.03 (0.01)	0.29 (0.11)
Eczema (self-report)	361,141	9,321	351,820	2.58%	7.90%[48]	0.16 (0.02) ^c	1.12	1.16	1.00 (0.01)	0.02 (0.06)	0.16 (0.02)	1.13	1.17	1.00 (0.01)	0.01 (0.06)
Complete blood count traits (UK Biobank) [35]															
Basophil count	349856	--	--	--	--	0.02 (0.00)	1.20	1.27	1.10 (0.01)	0.40 (0.04)	0.13 (0.02)	1.20	1.27	1.10 (0.01)	0.36 (0.04)
Basophil percentage	349861	--	--	--	--	0.05 (0.01)	1.18	1.39	1.05 (0.02)	0.14 (0.05)	0.13 (0.02)	1.14	1.25	1.03 (0.02)	0.11 (0.06)
Eosinophil count	349856	--	--	--	--	0.16 (0.02)	1.53	2.39	1.10 (0.05)	0.08 (0.04)	0.17 (0.02)	1.53	2.46	1.10 (0.05)	0.07 (0.04)
Eosinophil percentage	349861	--	--	--	--	0.19 (0.02)	1.53	2.59	1.10 (0.06)	0.07 (0.04)	0.19 (0.02)	1.53	2.62	1.12 (0.06)	0.07 (0.04)
Haematocrit percentage	350475	--	--	--	--	0.13 (0.01)	1.61	2.23	1.21 (0.05)	0.18 (0.04)	0.14 (0.02)	1.61	2.33	1.21 (0.06)	0.16 (0.05)
Haemoglobin concentration	350474	--	--	--	--	0.14 (0.01)	1.63	2.29	1.22 (0.05)	0.18 (0.04)	0.16 (0.02)	1.63	2.48	1.19 (0.08)	0.13 (0.05)
High light scatter reticulocyte count	344729	--	--	--	--	0.18 (0.02)	1.20	1.26	1.21 (0.08)	0.13 (0.05)	0.19 (0.02)	1.77	2.73	1.23 (0.10)	0.13 (0.06)
High light scatter reticulocyte percentage	344729	--	--	--	--	0.18 (0.02)	1.18	1.38	1.21 (0.08)	0.13 (0.05)	0.13 (0.02)	1.30	1.58	1.07 (0.04)	0.13 (0.07)
Immature reticulocyte fraction	344728	--	--	--	--	0.11 (0.01)	1.52	2.37	1.20 (0.07)	0.19 (0.07)	0.12 (0.01)	1.51	2.11	1.21 (0.09)	0.19 (0.08)
Lymphocyte count	349856	--	--	--	--	0.18 (0.01)	1.52	2.59	1.14 (0.04)	0.09 (0.03)	0.20 (0.02)	1.72	2.69	1.14 (0.05)	0.08 (0.03)
Lymphocyte percentage	349861	--	--	--	--	0.15 (0.01)	1.60	2.19	1.12 (0.04)	0.10 (0.03)	0.15 (0.01)	1.56	2.25	1.14 (0.04)	0.11 (0.03)
Mean corpuscular haemoglobin	350472	--	--	--	--	0.21 (0.02)	1.61	2.25	1.19 (0.08)	0.11 (0.05)	0.27 (0.05)	1.55	3.24	1.08 (0.12)	0.04 (0.05)
Mean corpuscular haemoglobin concentration	350468	--	--	--	--	0.05 (0.01)	1.73	2.60	1.04 (0.02)	0.10 (0.05)	0.07 (0.01)	1.23	1.53	1.01 (0.04)	0.02 (0.08)
Mean corpuscular volume	350473	--	--	--	--	0.21 (0.02)	1.70	2.57	1.23 (0.09)	0.13 (0.05)	0.26 (0.04)	1.60	3.18	1.15 (0.10)	0.07 (0.05)
Mean platelet (thrombocyte) volume	350470	--	--	--	--	0.28 (0.03)	1.49	2.05	1.30 (0.10)	0.13 (0.04)	0.13 (0.02)	1.58	3.66	1.18 (0.12)	0.07 (0.04)
Mean reticulocyte volume	344728	--	--	--	--	0.17 (0.02)	1.69	2.51	1.20 (0.08)	0.14 (0.05)	0.19 (0.02)	1.47	2.60	1.20 (0.08)	0.13 (0.05)
Mean spheroid cell volume	344729	--	--	--	--	0.17 (0.02)	1.54	2.21	1.22 (0.07)	0.15 (0.05)	0.13 (0.02)	1.55	2.54	1.20 (0.08)	0.13 (0.05)
Monocyte count	349856	--	--	--	--	0.18 (0.02)	1.53	2.75	1.26 (0.07)	0.17 (0.04)	0.18 (0.02)	1.59	2.63	1.26 (0.07)	0.16 (0.04)

Monocyte percentage	349861	--	--	--	--	0.16 (0.02)	1.22	1.43	1.22 (0.07)	0.17 (0.05)	0.16 (0.02)	1.46	2.37	1.23 (0.07)	0.17 (0.05)
Neutrophil count	349856	--	--	--	--	0.15 (0.01)	1.58	2.79	1.12 (0.03)	0.10 (0.03)	0.17 (0.02)	1.64	2.37	1.11 (0.05)	0.08 (0.03)
Neutrophil percentage	349861	--	--	--	--	0.14 (0.01)	1.58	3.30	1.10 (0.04)	0.09 (0.03)	0.13 (0.02)	1.51	2.10	1.10 (0.04)	0.09 (0.04)
Nucleated red blood cell count	349848	--	--	--	--	-0.00 (0.00)	1.46	2.46	1.00 (0.01)	< 0 ^d	0.13 (0.02)	1.00	1.00	1.00 (0.01)	< 0 ^d
Nucleated red blood cell percentage	349845	--	--	--	--	-0.00 (0.00)	1.54	2.47	1.00 (0.01)	< 0 ^d	0.13 (0.02)	0.99	0.99	1.00 (0.01)	< 0 ^d
Platelet count	350474	--	--	--	--	0.25 (0.02)	1.56	2.50	1.20 (0.05)	0.10 (0.03)	0.27 (0.02)	1.73	3.14	1.16 (0.06)	0.07 (0.03)
Platelet crit	350471	--	--	--	--	0.21 (0.02)	1.44	2.34	1.23 (0.05)	0.13 (0.03)	0.22 (0.02)	1.70	2.78	1.20 (0.05)	0.11 (0.03)
Platelet distribution width	350470	--	--	--	--	0.20 (0.02)	1.63	2.25	1.17 (0.07)	0.10 (0.04)	0.13 (0.02)	1.46	2.63	1.14 (0.08)	0.09 (0.05)
Red blood cell (erythrocyte) count	350475	--	--	--	--	0.19 (0.02)	1.52	2.13	1.23 (0.06)	0.14 (0.03)	0.20 (0.02)	1.73	2.76	1.23 (0.06)	0.13 (0.04)
Red blood cell (erythrocyte) distribution width	350473	--	--	--	--	0.20 (0.02)	1.00	1.00	1.09 (0.06)	0.06 (0.04)	0.22 (0.03)	1.50	2.73	1.06 (0.08)	0.03 (0.05)
Reticulocyte count	344729	--	--	--	--	0.18 (0.02)	0.99	0.99	1.18 (0.07)	0.11 (0.04)	0.13 (0.02)	1.33	1.60	1.06 (0.04)	0.10 (0.06)
Reticulocyte percentage	344728	--	--	--	--	0.17 (0.02)	1.70	3.01	1.16 (0.07)	0.11 (0.04)	0.19 (0.02)	1.68	2.63	1.17 (0.09)	0.10 (0.05)
White blood cell (leukocyte) count	350470	--	--	--	--	0.18 (0.02)	1.68	2.68	1.13 (0.04)	0.09 (0.03)	0.20 (0.02)	1.76	2.64	1.12 (0.05)	0.08 (0.03)

^a Calculated as: $\frac{(intercept-1)}{mean(\chi^2)-1}$.

^b Liability-adjusted heritability

^c Adjusted using prevalence of trait in UK Biobank

^d Not able to be calculated

Supplementary Table 3. Coefficients, standard errors, and p values for GTex cell lines used for cell-type specific analyses individually and harmonic mean p (p_{HM}) within tissue category, bold indicates p<0.05

Category	Cell line	All glioma				GB				Non-GB							
		p _{HM}	Coefficient	SE	P	p _{HM}	Coefficient	SE	P	p _{HM}	Coefficient	SE	P				
Adipose	Subcutaneous fat abdominal	0.3578	7.5x10 ⁻⁹	9.1x10 ⁻⁹	0.2057	0.2599	2.8x10 ⁻⁹	1.1x10 ⁻⁸	0.4013	0.3859	1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.1147				
	Subcutaneous fat		7.7x10 ⁻⁹	8.8x10 ⁻⁹	0.1903		-9.4x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5356		1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.1138				
	Adipocytes		-4x10 ⁻⁹	7.9x10 ⁻⁹	0.6937		-1.8x10 ⁻⁹	1.1x10 ⁻⁸	0.5670		-8.7x10 ⁻⁹	1x10 ⁻⁸	0.8042				
	Adipose subcutaneous		9.2x10 ⁻⁹	8.1x10 ⁻⁹	0.1283		1.6x10 ⁻⁸	1x10 ⁻⁸	0.0570		-3.7x10 ⁻⁹	9.2x10 ⁻⁹	0.6568				
	Adipose visceral (omentum)		7.1x10 ⁻⁹	9.5x10 ⁻⁹	0.2275		1.4x10 ⁻⁸	1.3x10 ⁻⁸	0.1294		-9.3x10 ⁻¹⁰	9.6x10 ⁻⁹	0.5387				
Blood/Immune	Synovial fluid	0.6660	-6.4x10 ⁻¹⁰	1x10 ⁻⁸	0.5249	0.5887	9x10 ⁻⁹	1.3x10 ⁻⁸	0.2368	0.7261	-9.4x10 ⁻⁹	1.4x10 ⁻⁸	0.7463				
	Lymph nodes		-2.4x10 ⁻⁹	8.8x10 ⁻⁹	0.6084		-1.3x10 ⁻⁸	1x10 ⁻⁸	0.9100		-1.2x10 ⁻¹⁰	1.2x10 ⁻⁸	0.5043				
	Lymphoid tissue		-1.8x10 ⁻⁹	8.5x10 ⁻⁹	0.5856		-9.9x10 ⁻⁹	1x10 ⁻⁸	0.8285		-2x10 ⁻⁹	1.2x10 ⁻⁸	0.5650				
	Precursor cells b lymphoid		-2.1x10 ⁻⁹	7.7x10 ⁻⁹	0.6051		-2.6x10 ⁻¹⁰	9.6x10 ⁻⁹	0.5110		1.5x10 ⁻⁹	1.1x10 ⁻⁸	0.4434				
	B lymphocytes		1.7x10 ⁻⁸	1.1x10 ⁻⁸	0.0650		1.4x10 ⁻⁸	1.3x10 ⁻⁸	0.1390		1.9x10 ⁻⁸	1.4x10 ⁻⁸	0.0892				
	T lymphocytes regulatory		-6.1x10 ⁻¹⁰	9.8x10 ⁻⁹	0.5248		-1.1x10 ⁻⁹	1x10 ⁻⁸	0.5426		-4.6x10 ⁻⁹	1.4x10 ⁻⁸	0.6243				
	T lymphocytes		5.8x10 ⁻⁹	1x10 ⁻⁸	0.2870		1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1481		-1.3x10 ⁻⁸	1x10 ⁻⁸	0.8875				
	Leukocytes		7.4x10 ⁻⁹	1.2x10 ⁻⁸	0.2711		1.9x10 ⁻⁸	1.5x10 ⁻⁸	0.0995		-7.3x10 ⁻⁹	1.4x10 ⁻⁸	0.6954				
	Macrophages alveolar		3.7x10 ⁻⁹	9.9x10 ⁻⁹	0.3526		2.8x10 ⁻⁹	1.1x10 ⁻⁸	0.4018		4x10 ⁻⁹	1.1x10 ⁻⁸	0.3593				
	Erythroid cells		9.7x10 ⁻⁹	9.3x10 ⁻⁹	0.1489		-3.6x10 ⁻⁹	9x10 ⁻⁹	0.6566		2.3x10 ⁻⁸	1.4x10 ⁻⁸	0.0461				
	Granulocyte precursor cells		1.4x10 ⁻⁸	1.2x10 ⁻⁸	0.1216		1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1159		-2.8x10 ⁻¹⁰	1.7x10 ⁻⁸	0.5063				
	Monocyte macrophage precursor cells		-1.9x10 ⁻⁹	1.1x10 ⁻⁸	0.5672		4.7x10 ⁻⁹	1.2x10 ⁻⁸	0.3489		8.6x10 ⁻⁹	1.7x10 ⁻⁸	0.3019				
	Myeloid progenitor cells		5.9x10 ⁻⁹	1.2x10 ⁻⁸	0.3153		6.9x10 ⁻⁹	1.4x10 ⁻⁸	0.3101		1.2x10 ⁻⁸	1.7x10 ⁻⁸	0.2394				
	Granulocyte macrophage progenitor cells		-1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.8678		-5.5x10 ⁻⁹	1.2x10 ⁻⁸	0.6804		-3.3x10 ⁻⁹	1.7x10 ⁻⁸	0.5753				
	Megakaryocyte erythroid progenitor cells		7.5x10 ⁻⁹	1.1x10 ⁻⁸	0.2558		-5.7x10 ⁻⁹	1.2x10 ⁻⁸	0.6778		1.6x10 ⁻⁸	1.5x10 ⁻⁸	0.1486				
	Hematopoietic stem cells		5.2x10 ⁻⁹	1.2x10 ⁻⁸	0.3259		4.2x10 ⁻⁹	1.3x10 ⁻⁸	0.3727		1.6x10 ⁻⁸	1.6x10 ⁻⁸	0.1561				
	Blood platelets		-5.3x10 ⁻⁹	8.3x10 ⁻⁹	0.7372		-3.8x10 ⁻⁹	9.5x10 ⁻⁹	0.6550		-9x10 ⁻⁹	1x10 ⁻⁸	0.8053				
	Plasma cells		3.5x10 ⁻⁹	9.1x10 ⁻⁹	0.3486		3.3x10 ⁻⁹	1.1x10 ⁻⁸	0.3815		-1.1x10 ⁻⁹	1.1x10 ⁻⁸	0.5386				
	Cd4 positive t lymphocytes		-4.5x10 ⁻⁹	9.2x10 ⁻⁹	0.6875		3.7x10 ⁻⁹	9.6x10 ⁻⁹	0.3486		-2x10 ⁻⁸	1.1x10 ⁻⁸	0.9727				
	Leukocytes mononuclear		1.5x10 ⁻⁸	1.1x10 ⁻⁸	0.0891		2.3x10 ⁻⁸	1.4x10 ⁻⁸	0.0448		2.6x10 ⁻⁹	1.2x10 ⁻⁸	0.4170				
	Blood cells		-1.3x10 ⁻⁹	1.2x10 ⁻⁸	0.5422		1.8x10 ⁻⁸	1.6x10 ⁻⁸	0.1185		-1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.9151				
	Fetal blood		4.2x10 ⁻⁹	1.2x10 ⁻⁸	0.3624		1.1x10 ⁻⁸	1.4x10 ⁻⁸	0.2254		8.1x10 ⁻⁹	1.2x10 ⁻⁸	0.2444				
	Serum		7.1x10 ⁻⁹	9.7x10 ⁻⁹	0.2328		1.2x10 ⁻⁸	1.3x10 ⁻⁸	0.1652		4.3x10 ⁻⁹	1.2x10 ⁻⁸	0.3612				
	Blood		-1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.8693		-4x10 ⁻⁹	1.3x10 ⁻⁸	0.6179		-1.1x10 ⁻⁸	1.4x10 ⁻⁸	0.7869				
	Monocytes		-4.2x10 ⁻⁹	9.9x10 ⁻⁹	0.6643		4.7x10 ⁻⁹	1.3x10 ⁻⁸	0.3571		-9x10 ⁻⁹	1.1x10 ⁻⁸	0.7862				
	Bone marrow cells		-4.3x10 ⁻⁹	1.1x10 ⁻⁸	0.6527		1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1315		-1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.8919				
	Neutrophils		-2.6x10 ⁻⁹	9.4x10 ⁻⁹	0.6080		1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.1093		-1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.8341				
	Killer cells natural		-7.2x10 ⁻⁹	1x10 ⁻⁸	0.7568		-3x10 ⁻⁹	1.3x10 ⁻⁸	0.5927		-2.2x10 ⁻⁸	1.1x10 ⁻⁸	0.9758				
	Lymphocytes null		6.8x10 ⁻⁹	1x10 ⁻⁸	0.2510		-2.2x10 ⁻⁹	1.4x10 ⁻⁸	0.5628		3.9x10 ⁻⁹	1.3x10 ⁻⁸	0.3801				
	Lymphocytes		1x10 ⁻⁸	1.2x10 ⁻⁸	0.1848		1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.2082		5x10 ⁻⁹	1.3x10 ⁻⁸	0.3455				
	Spleen		-1.9x10 ⁻⁹	9.2x10 ⁻⁹	0.5821		-7.3x10 ⁻⁹	1.1x10 ⁻⁸	0.7426		2.2x10 ⁻⁹	1.1x10 ⁻⁸	0.4229				
	Palatine tonsil		4.4x10 ⁻¹⁰	9.8x10 ⁻⁹	0.4822		-6.4x10 ⁻⁹	1.3x10 ⁻⁸	0.6918		1.7x10 ⁻⁹	1.3x10 ⁻⁸	0.4489				
	Phagocytes		2.3x10 ⁻⁹	1.2x10 ⁻⁸	0.4208		1.4x10 ⁻⁸	1.4x10 ⁻⁸	0.1457		-1x10 ⁻⁸	1.1x10 ⁻⁸	0.8133				
	Dendritic cells		3x10 ⁻⁹	1.1x10 ⁻⁸	0.3920		1.5x10 ⁻⁸	1.5x10 ⁻⁸	0.1491		-1.9x10 ⁻⁹	1.2x10 ⁻⁸	0.5624				
	Macrophages		-3.3x10 ⁻⁹	1x10 ⁻⁸	0.6258		5.5x10 ⁻¹⁰	1.1x10 ⁻⁸	0.4807		-1x10 ⁻⁹	1.3x10 ⁻⁸	0.5333				
	Mononuclear phagocyte system		1.2x10 ⁻⁸	1.3x10 ⁻⁸	0.1711		2.2x10 ⁻⁸	1.5x10 ⁻⁸	0.0774		-7.4x10 ⁻¹⁰	1.3x10 ⁻⁸	0.5225				
	Immune system		-7.8x10 ⁻⁹	9.7x10 ⁻⁹	0.7889		-8.7x10 ⁻⁹	1.2x10 ⁻⁸	0.7701		2.1x10 ⁻⁹	1.3x10 ⁻⁸	0.4344				
	Cells EBV-transformed lymphocytes		2x10 ⁻⁸	1.1x10 ⁻⁸	0.0324		9.4x10 ⁻⁹	1.2x10 ⁻⁸	0.2218		2.6x10 ⁻⁸	1.3x10 ⁻⁸	0.0263				
	Spleen		2.1x10 ⁻⁸	1.2x10 ⁻⁸	0.0479		2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0588		2.1x10 ⁻⁸	1.6x10 ⁻⁸	0.0892				
	Whole blood		-5x10 ⁻⁹	9.7x10 ⁻⁹	0.6980		5.8x10 ⁻⁹	1.1x10 ⁻⁸	0.3004		-9x10 ⁻⁹	1.1x10 ⁻⁸	0.7899				
	Cardiovascular		Arteries	0.0774	1.4x10 ⁻⁸		9.5x10 ⁻⁹	0.0705	0.0311		1.3x10 ⁻⁸	1x10 ⁻⁸	0.0996	0.3611	1.7x10 ⁻⁸	1.3x10 ⁻⁸	0.1004
			Umbilical veins		-1x10 ⁻⁹		8.9x10 ⁻⁹	0.5454			-9.1x10 ⁻⁹	1.2x10 ⁻⁸	0.7853		1x10 ⁻⁹	1.3x10 ⁻⁸	0.4688
Veins		-6.3x10 ⁻¹⁰	9x10 ⁻⁹		0.5280	-9.6x10 ⁻⁹	1.1x10 ⁻⁸	0.8000		4.6x10 ⁻⁹	1.2x10 ⁻⁸	0.3568					

	Blood vessels		2×10^{-8}	1.2×10^{-8}	0.0454		1.9×10^{-8}	1.5×10^{-8}	0.0940		1.1×10^{-8}	1.3×10^{-8}	0.1972
	Atrial appendage		-2.9×10^{-9}	8.1×10^{-9}	0.6394		-1.2×10^{-8}	8.9×10^{-9}	0.9161		6.7×10^{-9}	1.2×10^{-8}	0.2837
	Heart atria		-1.4×10^{-9}	8.3×10^{-9}	0.5652		-1.5×10^{-8}	9×10^{-9}	0.9504		1.5×10^{-8}	1.2×10^{-8}	0.1046
	Aortic valve		2.3×10^{-9}	8.3×10^{-9}	0.3914		-4.2×10^{-10}	1×10^{-8}	0.5169		-5.6×10^{-9}	1.1×10^{-8}	0.6903
	Heart ventricles		-1.1×10^{-8}	7.8×10^{-9}	0.9259		-1.9×10^{-8}	8.8×10^{-9}	0.9845		-1.5×10^{-10}	1.1×10^{-8}	0.5051
	Heart		-1.1×10^{-8}	7.1×10^{-9}	0.9451		-2.3×10^{-8}	8.4×10^{-9}	0.9966		4.2×10^{-9}	1.1×10^{-8}	0.3469
	Artery aorta		1.9×10^{-8}	8.7×10^{-9}	0.0162		1.8×10^{-8}	1.1×10^{-8}	0.0457		1.7×10^{-8}	1×10^{-8}	0.0468
	Artery coronary		1.2×10^{-8}	8.1×10^{-9}	0.0632		1.4×10^{-8}	1×10^{-8}	0.0825		7×10^{-9}	1.1×10^{-8}	0.2589
	Artery tibial		2×10^{-8}	8.2×10^{-9}	0.0081		2.8×10^{-8}	9.9×10^{-9}	0.0021		1.4×10^{-8}	1.1×10^{-8}	0.1132
	Heart atrial appendage		-6.2×10^{-9}	7×10^{-9}	0.8126		-2.2×10^{-8}	7.9×10^{-9}	0.9972		9.8×10^{-9}	1.1×10^{-8}	0.1785
	Heart left ventricle		-2.2×10^{-8}	7.4×10^{-9}	0.9987		-3×10^{-8}	8.7×10^{-9}	0.9997		-7.8×10^{-9}	1.2×10^{-8}	0.7438
CNS	Cerebellum	0.0221	1.5×10^{-8}	8.5×10^{-9}	0.0421	0.0709	1.2×10^{-8}	1.1×10^{-8}	0.1261	0.0249	1.2×10^{-8}	9.4×10^{-9}	0.1079
	Brain stem		1.6×10^{-8}	7.8×10^{-9}	0.0193		1.4×10^{-8}	9×10^{-9}	0.0579		1.7×10^{-8}	9.9×10^{-9}	0.0401
	Hippocampus		1.2×10^{-8}	7.6×10^{-9}	0.0573		1.1×10^{-8}	9×10^{-9}	0.1125		1.8×10^{-8}	9.6×10^{-9}	0.0335
	Entorhinal cortex		1.8×10^{-8}	7.6×10^{-9}	0.0099		1.3×10^{-8}	9.2×10^{-9}	0.0845		2.8×10^{-8}	1×10^{-8}	0.0029
	Limbic system		1.2×10^{-8}	7.8×10^{-9}	0.0632		8.5×10^{-9}	9.4×10^{-9}	0.1829		1.9×10^{-8}	9.8×10^{-9}	0.0280
	Mesencephalon		1.1×10^{-8}	7.8×10^{-9}	0.0858		1.1×10^{-8}	9.2×10^{-9}	0.1053		1.4×10^{-8}	1.1×10^{-8}	0.0878
	Hypothalamo hypophyseal system		1.9×10^{-8}	1×10^{-8}	0.0342		2.8×10^{-8}	1.3×10^{-8}	0.0174		4×10^{-9}	1×10^{-8}	0.3525
	Hypothalamus		1.2×10^{-8}	1×10^{-8}	0.1121		2×10^{-8}	1.3×10^{-8}	0.0574		-4.4×10^{-9}	1.1×10^{-8}	0.6587
	Diencephalon		2.1×10^{-8}	8.8×10^{-9}	0.0086		2.5×10^{-8}	1.1×10^{-8}	0.0090		9.7×10^{-9}	1.2×10^{-8}	0.2038
	Corpus striatum		1.9×10^{-8}	8.5×10^{-9}	0.0125		9.8×10^{-9}	9.9×10^{-9}	0.1604		3×10^{-8}	1.4×10^{-8}	0.0142
	Basal ganglia		1.5×10^{-8}	8×10^{-9}	0.0278		4.5×10^{-9}	8.7×10^{-9}	0.3022		3×10^{-8}	1.3×10^{-8}	0.0138
	Frontal lobe		2.4×10^{-9}	6.8×10^{-9}	0.3643		7.5×10^{-9}	7.8×10^{-9}	0.1662		-5.6×10^{-9}	9.3×10^{-9}	0.7275
	Visual cortex		1.3×10^{-8}	7.4×10^{-9}	0.0455		8.6×10^{-9}	8.7×10^{-9}	0.1616		1.7×10^{-8}	1.1×10^{-8}	0.0587
	Parietal lobe		1.9×10^{-8}	7.5×10^{-9}	0.0062		2.1×10^{-8}	8.5×10^{-9}	0.0075		1.9×10^{-8}	1.1×10^{-8}	0.0383
	Cerebral cortex		1.1×10^{-8}	7.1×10^{-9}	0.0621		5.8×10^{-9}	8.1×10^{-9}	0.2386		2×10^{-8}	9.7×10^{-9}	0.0208
	Metencephalon		1.3×10^{-8}	8.7×10^{-9}	0.0660		1.2×10^{-8}	1.1×10^{-8}	0.1355		9.2×10^{-9}	9.4×10^{-9}	0.1641
	Brain		1.4×10^{-8}	6.6×10^{-9}	0.0153		1.1×10^{-8}	7.7×10^{-9}	0.0782		2.2×10^{-8}	9.6×10^{-9}	0.0094
	Retina		5.9×10^{-9}	7.9×10^{-9}	0.2275		3×10^{-9}	8.4×10^{-9}	0.3590		1.2×10^{-8}	1.1×10^{-8}	0.1393
	Neural stem cells		9×10^{-9}	9.6×10^{-9}	0.1744		1.1×10^{-8}	1.1×10^{-8}	0.1573		9.4×10^{-9}	1.2×10^{-8}	0.2244
	Brain amygdala		8×10^{-9}	6.5×10^{-9}	0.1106		1.1×10^{-8}	7.7×10^{-9}	0.0746		1.1×10^{-8}	7.8×10^{-9}	0.0750
	Brain Anterior cingulate cortex (BA24)		8.7×10^{-9}	6.4×10^{-9}	0.0875		9.7×10^{-9}	7.4×10^{-9}	0.0944		1.1×10^{-8}	8.1×10^{-9}	0.0915
	Brain Caudate (basal ganglia)		1.5×10^{-8}	6.9×10^{-9}	0.0147		1.8×10^{-8}	8.8×10^{-9}	0.0184		9.2×10^{-9}	7.8×10^{-9}	0.1192
	Brain cerebellar hemisphere		3×10^{-9}	7.5×10^{-9}	0.3463		3.2×10^{-9}	9×10^{-9}	0.3628		2.4×10^{-9}	7.4×10^{-9}	0.3726
	Brain cerebellum		2.4×10^{-9}	7.1×10^{-9}	0.3687		-1.7×10^{-9}	8.5×10^{-9}	0.5780		6×10^{-9}	7.6×10^{-9}	0.2154
	Brain cortex		8.2×10^{-9}	6.8×10^{-9}	0.1132		1.3×10^{-8}	8×10^{-9}	0.0478		8.1×10^{-9}	8.1×10^{-9}	0.1578
	Brain frontal cortex (ba9)		8.9×10^{-9}	6.7×10^{-9}	0.0914		1.1×10^{-8}	8×10^{-9}	0.0854		9.1×10^{-9}	7.8×10^{-9}	0.1217
	Brain hippocampus		6.9×10^{-9}	6.4×10^{-9}	0.1400		8.6×10^{-9}	7.8×10^{-9}	0.1353		9.8×10^{-9}	7.7×10^{-9}	0.1024
	Brain hypothalamus		1.2×10^{-8}	6.1×10^{-9}	0.0210		8.6×10^{-9}	7.4×10^{-9}	0.1224		1.9×10^{-8}	7.6×10^{-9}	0.0061
	Brain Nucleus accumbens (basal ganglia)		9×10^{-9}	6.7×10^{-9}	0.0897		1.2×10^{-8}	8.6×10^{-9}	0.0895		4.5×10^{-9}	8×10^{-9}	0.2844
	Brain Putamen (basal ganglia)		1.1×10^{-8}	6.6×10^{-9}	0.0414		1.2×10^{-8}	8.3×10^{-9}	0.0715		9.2×10^{-9}	7.8×10^{-9}	0.1184
	Brain Spinal cord (cervical c-1)		1.4×10^{-8}	6.2×10^{-9}	0.0143		3.6×10^{-9}	7.4×10^{-9}	0.3126		2.2×10^{-8}	8.3×10^{-9}	0.0039
	Brain Substantia nigra		2×10^{-8}	6.7×10^{-9}	0.0016		1.6×10^{-8}	7.8×10^{-9}	0.0214		2.3×10^{-8}	8.9×10^{-9}	0.0053
Digestive	A03 556 124 369 intestinal mucosa	0.4426	1.5×10^{-8}	1×10^{-8}	0.0766	0.5070	1.3×10^{-8}	1.1×10^{-8}	0.1133	0.5851	1.8×10^{-8}	1.3×10^{-8}	0.0716
	A03 556 124 526 767 rectum		-1×10^{-8}	1×10^{-8}	0.8441		-1.4×10^{-8}	1.2×10^{-8}	0.8809		-1.9×10^{-8}	1.1×10^{-8}	0.9526
	A03 556 124 684 intestine small		-1.1×10^{-9}	1.1×10^{-8}	0.5391		-8×10^{-9}	1.3×10^{-8}	0.7269		1×10^{-8}	1.8×10^{-8}	0.2821
	A03 556 124 intestines		-8.8×10^{-9}	1×10^{-8}	0.8061		-7.6×10^{-9}	1.3×10^{-8}	0.7240		-1.5×10^{-8}	1.2×10^{-8}	0.8873
	A03 556 249 124 ileum		2×10^{-8}	1.3×10^{-8}	0.0683		1.8×10^{-8}	1.6×10^{-8}	0.1301		2.2×10^{-8}	2×10^{-8}	0.1404
	A03 556 249 249 209 cecum		-1.1×10^{-8}	8.8×10^{-9}	0.8901		-8.8×10^{-9}	1×10^{-8}	0.8010		-1.9×10^{-8}	1.1×10^{-8}	0.9610
	A03 556 249 249 356 668 colon sigmoid		8.2×10^{-9}	9.2×10^{-9}	0.1842		3.5×10^{-9}	1.2×10^{-8}	0.3835		-4.5×10^{-10}	1.1×10^{-8}	0.5159
	A03 556 249 249 356 colon		-1.3×10^{-8}	1×10^{-8}	0.8910		-7.3×10^{-9}	1.3×10^{-8}	0.7122		-2.6×10^{-8}	1.2×10^{-8}	0.9878
	A03 556 500 760 464 parotid gland		1.7×10^{-8}	1.1×10^{-8}	0.0720		1.7×10^{-8}	1.3×10^{-8}	0.0974		2.2×10^{-8}	1.4×10^{-8}	0.0593

	A03 556 500 760 salivary glands		1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1335		1.8x10 ⁻⁸	1.4x10 ⁻⁸	0.0909		8.6x10 ⁻⁹	1.6x10 ⁻⁸	0.2942
	A03 556 875 500 esophagus		6.7x10 ⁻⁹	8.7x10 ⁻⁹	0.2191		1.1x10 ⁻⁸	1.1x10 ⁻⁸	0.1570		-9x10 ⁻⁹	1x10 ⁻⁸	0.8103
	A03 556 875 875 stomach		3.6x10 ⁻⁹	1.1x10 ⁻⁸	0.3684		6.1x10 ⁻⁹	1.3x10 ⁻⁸	0.3226		-2.8x10 ⁻¹¹	1.6x10 ⁻⁸	0.5007
	A03 556 875 upper gastrointestinal tract		-2.7x10 ⁻⁹	1.1x10 ⁻⁸	0.6022		3.9x10 ⁻⁹	1.3x10 ⁻⁸	0.3819		-7.7x10 ⁻⁹	1.3x10 ⁻⁸	0.7176
	A03 556 gastrointestinal tract		-2.1x10 ⁻⁹	1.1x10 ⁻⁸	0.5775		8.8x10 ⁻⁹	1.3x10 ⁻⁸	0.2462		-1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.8165
	Colon sigmoid		6.1x10 ⁻⁹	8.7x10 ⁻⁹	0.2417		8.7x10 ⁻⁹	1x10 ⁻⁸	0.1949		-3.7x10 ⁻⁹	1.1x10 ⁻⁸	0.6272
	Colon transverse		8.9x10 ⁻⁹	9.9x10 ⁻⁹	0.1843		9.8x10 ⁻⁹	1.1x10 ⁻⁸	0.1929		8.8x10 ⁻⁹	1.3x10 ⁻⁸	0.2452
	Esophagus gastroesophageal junction		6.1x10 ⁻⁹	8.7x10 ⁻⁹	0.2431		1.1x10 ⁻⁸	1.1x10 ⁻⁸	0.1552		-5.7x10 ⁻¹⁰	1x10 ⁻⁸	0.5227
	Esophagus mucosa		1.4x10 ⁻⁸	8.9x10 ⁻⁹	0.0519		1.4x10 ⁻⁸	9.9x10 ⁻⁹	0.0732		1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0604
	Esophagus muscularis		2.6x10 ⁻⁹	8.4x10 ⁻⁹	0.3765		6x10 ⁻⁹	1.1x10 ⁻⁸	0.2835		-1.5x10 ⁻⁹	9.3x10 ⁻⁹	0.5639
	Small intestine terminal ileum		-4.1x10 ⁻⁹	1.2x10 ⁻⁸	0.6361		-1.3x10 ⁻⁸	1.5x10 ⁻⁸	0.8123		7.6x10 ⁻⁹	1.5x10 ⁻⁸	0.3025
	Stomach		1.9x10 ⁻⁹	8.3x10 ⁻⁹	0.4114		-5.5x10 ⁻¹⁰	9.8x10 ⁻⁹	0.5222		3.1x10 ⁻⁹	1x10 ⁻⁸	0.3796
Endocrine	Adrenal cortex	0.8625	-2x10 ⁻⁹	9.7x10 ⁻⁹	0.5831	0.8102	8.5x10 ⁻¹⁰	1.3x10 ⁻⁸	0.4733	0.9178	-9.1x10 ⁻⁹	1.1x10 ⁻⁸	0.7950
	Adrenal glands		-6.4x10 ⁻⁹	9.1x10 ⁻⁹	0.7611		-5.6x10 ⁻⁹	1.2x10 ⁻⁸	0.6759		-1.1x10 ⁻⁸	1x10 ⁻⁸	0.8566
	Thyroid gland		-3.3x10 ⁻⁹	8.4x10 ⁻⁹	0.6508		-5.6x10 ⁻⁹	1x10 ⁻⁸	0.7108		-4.8x10 ⁻⁹	1x10 ⁻⁸	0.6794
	Endocrine glands		2.1x10 ⁻¹⁰	8.5x10 ⁻⁹	0.4903		-7.4x10 ⁻⁹	1x10 ⁻⁸	0.7666		-4.1x10 ⁻⁹	1.1x10 ⁻⁸	0.6394
	Endocrine cells		⁻⁹ 2x10 ⁻⁹	8.1x10 ⁻⁹	0.8718		-8.5x10 ⁻⁹	1.1x10 ⁻⁸	0.7873		-1.8x10 ⁻⁸	9.5x10 ⁻⁹	0.9735
	Adrenal gland		-8.8x10 ⁻⁹	9.6x10 ⁻⁹	0.8220		3.9x10 ⁻⁹	1.2x10 ⁻⁸	0.3705		-2x10 ⁻⁸	1.1x10 ⁻⁸	0.9662
	Pituitary		6.8x10 ⁻¹¹	8.4x10 ⁻⁹	0.4968		4.2x10 ⁻⁹	1x10 ⁻⁸	0.3420		-4.1x10 ⁻⁹	9.1x10 ⁻⁹	0.6729
	Thyroid		1.1x10 ⁻⁹	8x10 ⁻⁹	0.4434		2.4x10 ⁻⁹	9.6x10 ⁻⁹	0.4005		-9.4x10 ⁻⁹	1.1x10 ⁻⁸	0.8115
Liver	Liver	0.3935	8.9x10 ⁻⁹	9.3x10 ⁻⁹	0.1679	0.3987	1x10 ⁻⁸	1.1x10 ⁻⁸	0.1694	0.2907	6.9x10 ⁻⁹	1.1x10 ⁻⁸	0.2709
	Hepatocytes		7.5x10 ⁻⁹	1.2x10 ⁻⁸	0.2598		1x10 ⁻⁸	1.4x10 ⁻⁸	0.2381		1.4x10 ⁻⁹	1.3x10 ⁻⁸	0.4574
	Liver		-1.8x10 ⁻⁹	7.8x10 ⁻⁹	0.5908		-7.9x10 ⁻⁹	9x10 ⁻⁹	0.8108		1.3x10 ⁻⁸	1x10 ⁻⁸	0.1028
Musculoskeletal/Connective	Cartilage	0.0982	6.2x10 ⁻¹⁰	1.1x10 ⁻⁸	0.4767	0.1370	5.3x10 ⁻⁹	1.3x10 ⁻⁸	0.3359	0.2911	7.3x10 ⁻⁹	1.4x10 ⁻⁸	0.2961
	Quadriceps muscle		6.6x10 ⁻⁹	9.7x10 ⁻⁹	0.2484		9.3x10 ⁻⁹	1.2x10 ⁻⁸	0.2217		1.3x10 ⁻⁹	1.2x10 ⁻⁸	0.4561
	Cervical vertebrae		3.6x10 ⁻⁹	9.1x10 ⁻⁹	0.3454		5.4x10 ⁻⁹	1.2x10 ⁻⁸	0.3310		6.1x10 ⁻¹⁰	1x10 ⁻⁸	0.4767
	Synovial membrane		-6.2x10 ⁻⁹	9.3x10 ⁻⁹	0.7478		3.3x10 ⁻⁹	1.1x10 ⁻⁸	0.3860		-7x10 ⁻⁹	1x10 ⁻⁸	0.7539
	Myometrium		5.2x10 ⁻⁹	8.7x10 ⁻⁹	0.2769		-3.2x10 ⁻⁹	1x10 ⁻⁸	0.6195		2.1x10 ⁻⁹	1.2x10 ⁻⁸	0.4274
	Keloid		5.9x10 ⁻⁹	9.2x10 ⁻⁹	0.2623		9x10 ⁻⁹	1.1x10 ⁻⁸	0.2168		-2.5x10 ⁻⁹	1x10 ⁻⁸	0.5941
	A10 165 450 300 cicatrix		8.6x10 ⁻⁹	9.3x10 ⁻⁹	0.1775		1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.1012		-2.1x10 ⁻⁹	1x10 ⁻⁸	0.5798
	A10 690 467 muscle smooth		1.9x10 ⁻⁸	1x10 ⁻⁸	0.0335		2.3x10 ⁻⁸	1.2x10 ⁻⁸	0.0312		1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1194
	A10 690 muscles		7.5x10 ⁻⁹	1x10 ⁻⁸	0.2286		1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1748		1.3x10 ⁻⁹	1.2x10 ⁻⁸	0.4577
	A11 329 171 chondrocytes		1.9x10 ⁻⁸	1x10 ⁻⁸	0.0363		2.7x10 ⁻⁸	1.3x10 ⁻⁸	0.0207		5.6x10 ⁻⁹	1.1x10 ⁻⁸	0.3097
	A11 329 228 fibroblasts		1x10 ⁻⁸	8.4x10 ⁻⁹	0.1126		3.3x10 ⁻⁹	9.6x10 ⁻⁹	0.3659		1.8x10 ⁻⁸	1.2x10 ⁻⁸	0.0565
	A11 329 629 osteoblasts		9.7x10 ⁻⁹	9.1x10 ⁻⁹	0.1427		8.2x10 ⁻⁹	1.1x10 ⁻⁸	0.2189		1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1471
	A11 329 830 stromal cells		2.3x10 ⁻⁸	1.1x10 ⁻⁸	0.0178		1.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0745		2.5x10 ⁻⁸	1.2x10 ⁻⁸	0.0194
	A11 329 connective tissue cells		9.7x10 ⁻⁹	9.1x10 ⁻⁹	0.1426		9.4x10 ⁻⁹	1.1x10 ⁻⁸	0.2007		7.4x10 ⁻⁹	1.3x10 ⁻⁸	0.2837
	A11 620 520 myocytes smooth muscle		1x10 ⁻⁸	1x10 ⁻⁸	0.1604		2.2x10 ⁻⁸	1.2x10 ⁻⁸	0.0359		2.2x10 ⁻⁹	1.1x10 ⁻⁸	0.4232
	Cells Transformed fibroblasts		2.3x10 ⁻⁸	1x10 ⁻⁸	0.0118		2.2x10 ⁻⁸	1.2x10 ⁻⁸	0.0341		1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1610
	Muscle skeletal		-5.8x10 ⁻⁹	9x10 ⁻⁹	0.7392		3.4x10 ⁻⁹	1.1x10 ⁻⁸	0.3797		-1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.8560
Other	Lung	0.3051	-8.4x10 ⁻¹⁰	9.8x10 ⁻⁹	0.5343	0.1801	1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.2040	0.9373	-1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.8519
	Nasal mucosa		-1.6x10 ⁻⁸	8.4x10 ⁻⁹	0.9712		⁻⁹ 6x10 ⁻⁹	1x10 ⁻⁸	0.8251		-1.9x10 ⁻⁸	9.9x10 ⁻⁹	0.9740
	Kidney cortex		6.8x10 ⁻⁹	8.5x10 ⁻⁹	0.2126		-1.5x10 ⁻⁹	1x10 ⁻⁸	0.5588		6.2x10 ⁻⁹	1.2x10 ⁻⁸	0.3026
	Kidney		8.8x10 ⁻⁹	8.5x10 ⁻⁹	0.1507		-3.4x10 ⁻¹⁰	9.7x10 ⁻⁹	0.5139		2.6x10 ⁻⁹	1.1x10 ⁻⁸	0.4031
	Urinary bladder		6.2x10 ⁻⁹	1.4x10 ⁻⁸	0.3286		1.7x10 ⁻⁸	1.8x10 ⁻⁸	0.1747		-4.7x10 ⁻⁹	1.2x10 ⁻⁸	0.6540
	Eye		4.8x10 ⁻⁹	8.5x10 ⁻⁹	0.2872		8.7x10 ⁻⁹	9.6x10 ⁻⁹	0.1825		-1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.9244
	Epidermis		5.3x10 ⁻⁹	9.1x10 ⁻⁹	0.2809		5.2x10 ⁻⁹	1.1x10 ⁻⁸	0.3158		-1.1x10 ⁻⁹	1x10 ⁻⁸	0.5401
	Epithelium		-7.1x10 ⁻⁹	8.9x10 ⁻⁹	0.7899		-4.5x10 ⁻⁹	1x10 ⁻⁸	0.6689		-1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.9393
	Chorion		6.3x10 ⁻⁹	8.8x10 ⁻⁹	0.2382		6.5x10 ⁻⁹	1.2x10 ⁻⁸	0.2926		-9.4x10 ⁻⁹	1x10 ⁻⁸	0.8160
	Mouth mucosa		1.3x10 ⁻⁹	9.5x10 ⁻⁹	0.4450		8.5x10 ⁻⁹	1x10 ⁻⁸	0.2088		-9.4x10 ⁻⁹	1.2x10 ⁻⁸	0.7872
	Mucous membrane		-3.3x10 ⁻⁹	9.8x10 ⁻⁹	0.6304		2.9x10 ⁻⁹	1.2x10 ⁻⁸	0.4053		-1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.8527
	Serous membrane		4.2x10 ⁻⁹	1.1x10 ⁻⁸	0.3467		1.1x10 ⁻⁹	1.3x10 ⁻⁸	0.4664		1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1298

	Membranes		-2.8x10 ⁻¹⁰	8.9x10 ⁻⁹	0.5124		1.8x10 ⁻¹²	1.1x10 ⁻⁸	0.4999		1.1x10 ⁻⁹	1.2x10 ⁻⁸	0.4630
	Endothelial cells		9.3x10 ⁻⁹	1x10 ⁻⁸	0.1851		8.6x10 ⁻⁹	1.2x10 ⁻⁸	0.2448		4.7x10 ⁻⁹	1.3x10 ⁻⁸	0.3547
	Glucagon secreting cells		2.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0132		2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0695		2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0577
	Granulosa cells		-1.3x10 ⁻⁸	7.4x10 ⁻⁹	0.9561		-3.9x10 ⁻⁹	8.8x10 ⁻⁹	0.6729		-2x10 ⁻⁸	1x10 ⁻⁸	0.9791
	Keratinocytes		2.4x10 ⁻⁸	1.2x10 ⁻⁸	0.0198		3x10 ⁻⁸	1.3x10 ⁻⁸	0.0129		1.3x10 ⁻⁸	1.3x10 ⁻⁸	0.1436
	Epithelial cells		-1.4x10 ⁻⁹	9.4x10 ⁻⁹	0.5593		-7.6x10 ⁻⁹	1.2x10 ⁻⁸	0.7442		4.3x10 ⁻⁹	1.1x10 ⁻⁸	0.3423
	Adult stem cells		1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.1267		1.9x10 ⁻⁹	1.3x10 ⁻⁸	0.4439		4.5x10 ⁻⁹	1.2x10 ⁻⁸	0.3592
	Embryoid bodies		8.9x10 ⁻⁹	9.1x10 ⁻⁹	0.1633		5.1x10 ⁻⁹	1.1x10 ⁻⁸	0.3164		2.9x10 ⁻⁹	1.2x10 ⁻⁸	0.4037
	Embryonic stem cells		6.3x10 ⁻⁹	8.4x10 ⁻⁹	0.2257		-3.8x10 ⁻⁹	1.1x10 ⁻⁸	0.6402		5.2x10 ⁻¹⁰	1.1x10 ⁻⁸	0.4808
	Mesenchymal stem cells		9.5x10 ⁻⁹	8.8x10 ⁻⁹	0.1391		8.5x10 ⁻⁹	1x10 ⁻⁸	0.2087		7.4x10 ⁻⁹	1.1x10 ⁻⁸	0.2415
	Induced pluripotent stem cells		9.6x10 ⁻⁹	9.6x10 ⁻⁹	0.1604		-2.7x10 ⁻⁹	1.2x10 ⁻⁸	0.5901		3.9x10 ⁻¹⁰	1.2x10 ⁻⁸	0.4874
	Stem cells		1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1479		4.9x10 ⁻⁹	1.4x10 ⁻⁸	0.3571		8.5x10 ⁻⁹	1.7x10 ⁻⁸	0.3031
	Periodontium		1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1565		2.9x10 ⁻⁸	1.4x10 ⁻⁸	0.0238		-2.9x10 ⁻⁹	1.3x10 ⁻⁸	0.5858
	Dentition		7.1x10 ⁻⁹	1x10 ⁻⁸	0.2433		7.1x10 ⁻⁹	1.1x10 ⁻⁸	0.2541		5.7x10 ⁻⁹	1.2x10 ⁻⁸	0.3135
	Tongue		1.9x10 ⁻⁹	1.1x10 ⁻⁸	0.4273		-1.5x10 ⁻⁹	1.2x10 ⁻⁸	0.5487		1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1458
	Mouth		1.4x10 ⁻⁹	1.1x10 ⁻⁸	0.4462		7.7x10 ⁻⁹	1.1x10 ⁻⁸	0.2445		-4.2x10 ⁻⁹	1.2x10 ⁻⁸	0.6347
	Nasopharynx		-6.2x10 ⁻⁹	8x10 ⁻⁹	0.7808		5.9x10 ⁻¹⁰	9.4x10 ⁻⁹	0.4750		-1.4x10 ⁻⁸	9.4x10 ⁻⁹	0.9370
	Pharynx		-7.5x10 ⁻⁹	7.6x10 ⁻⁹	0.8368		-4.4x10 ⁻⁹	8.8x10 ⁻⁹	0.8556		-3.8x10 ⁻⁹	1x10 ⁻⁸	0.6418
	Skin		-3.5x10 ⁻¹⁰	8.8x10 ⁻⁹	0.5157		9.2x10 ⁻⁹	1x10 ⁻⁸	0.1846		-1.5x10 ⁻⁸	1x10 ⁻⁸	0.9280
	Bladder		-7.8x10 ⁻⁹	7.4x10 ⁻⁹	0.8522		-1.2x10 ⁻⁸	8.9x10 ⁻⁹	0.9076		2.5x10 ⁻⁹	1.1x10 ⁻⁸	0.4063
	Breast mammary tissue		-2x10 ⁻⁹	8.2x10 ⁻⁹	0.5971		3.3x10 ⁻⁹	9.8x10 ⁻⁹	0.3693		-5.6x10 ⁻⁹	8.8x10 ⁻⁹	0.7389
	Kidney cortex		-6.8x10 ⁻⁹	8.1x10 ⁻⁹	0.8000		-6.5x10 ⁻⁹	9.7x10 ⁻⁹	0.7478		-1x10 ⁻⁸	9.9x10 ⁻⁹	0.8454
	Lung		2.4x10 ⁻⁹	8.2x10 ⁻⁹	0.3842		7.2x10 ⁻⁹	1.1x10 ⁻⁸	0.2480		-1.1x10 ⁻⁹	1.1x10 ⁻⁸	0.5431
	Minor salivary gland		4.5x10 ⁻⁹	9.3x10 ⁻⁹	0.3151		9.9x10 ⁻⁹	1x10 ⁻⁸	0.1674		-8.2x10 ⁻⁹	1x10 ⁻⁸	0.7882
	Nerve tibial		1.5x10 ⁻⁸	7.5x10 ⁻⁹	0.0229		2.4x10 ⁻⁸	9.6x10 ⁻⁹	0.0060		-1.1x10 ⁻⁸	8.3x10 ⁻⁹	0.9015
	Skin not sun exposed (suprapubic)		1.1x10 ⁻⁸	1x10 ⁻⁸	0.1398		1.4x10 ⁻⁸	1x10 ⁻⁸	0.0870		5x10 ⁻⁹	1.1x10 ⁻⁸	0.3204
	Skin Sun Exposed (Lower leg)		-1.9x10 ⁻⁹	9.2x10 ⁻⁹	0.5825		1.2x10 ⁻⁹	9.9x10 ⁻⁹	0.4520		-1.1x10 ⁻⁸	1.1x10 ⁻⁸	0.8289
Pancreas	Islets of Langerhans	0.0724	2.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0203	0.3142	2.3x10 ⁻⁸	1.7x10 ⁻⁸	0.0868	0.4064	1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.1160
	Pancreas		-5.2x10 ⁻⁹	8.9x10 ⁻⁹	0.7223		-1.4x10 ⁻⁹	1.1x10 ⁻⁸	0.5511		-2.5x10 ⁻⁸	1.1x10 ⁻⁸	0.9905
	Pancreas		-3.7x10 ⁻⁹	8.7x10 ⁻⁹	0.6631		-1.1x10 ⁻⁸	9.8x10 ⁻⁹	0.8688		-5x10 ⁻⁹	1.1x10 ⁻⁸	0.6807
Reproductive System	Fallopian tubes	0.6080	-8.1x10 ⁻⁹	8.1x10 ⁻⁹	0.8407	0.3971	-1.7x10 ⁻⁸	1x10 ⁻⁸	0.9487	0.8464	-4.5x10 ⁻⁹	1.2x10 ⁻⁸	0.6517
	Ovary		-1.4x10 ⁻¹⁰	8.6x10 ⁻⁹	0.5066		-5.5x10 ⁻⁹	1x10 ⁻⁸	0.7020		-2.5x10 ⁻⁹	1.1x10 ⁻⁸	0.5901
	Cervix uteri		-3.5x10 ⁻⁹	1x10 ⁻⁸	0.6333		3.5x10 ⁻⁹	1.3x10 ⁻⁸	0.3943		-1.5x10 ⁻⁸	1x10 ⁻⁸	0.9241
	Endometrium		-8.5x10 ⁻¹⁰	8.2x10 ⁻⁹	0.5412		1.4x10 ⁻⁹	1x10 ⁻⁸	0.4441		-7.5x10 ⁻⁹	9.5x10 ⁻⁹	0.7851
	Uterus		3.7x10 ⁻⁹	7.9x10 ⁻⁹	0.3188		8.7x10 ⁻⁹	1x10 ⁻⁸	0.1926		-1.1x10 ⁻⁸	9x10 ⁻⁹	0.8954
	Vulva		4.2x10 ⁻⁹	1x10 ⁻⁸	0.3433		5.2x10 ⁻⁹	1.2x10 ⁻⁸	0.3270		3.1x10 ⁻⁹	1.4x10 ⁻⁸	0.4101
	Genitalia female		-3.7x10 ⁻¹¹	8.8x10 ⁻⁹	0.5017		-1x10 ⁻⁹	1.1x10 ⁻⁸	0.5353		1.2x10 ⁻⁹	1x10 ⁻⁸	0.4525
	Foreskin		-2.2x10 ⁻⁹	7.9x10 ⁻⁹	0.6089		1.2x10 ⁻⁹	9x10 ⁻⁹	0.4486		-3.5x10 ⁻⁹	1.1x10 ⁻⁸	0.6277
	Genitalia male		-4.8x10 ⁻⁹	8.5x10 ⁻⁹	0.7145		-1.4x10 ⁻⁸	9.2x10 ⁻⁹	0.9408		8.6x10 ⁻⁹	1.5x10 ⁻⁸	0.2803
	Germ cells		-5.8x10 ⁻⁹	8.1x10 ⁻⁹	0.7630		-2x10 ⁻⁸	9.1x10 ⁻⁹	0.9849		3.2x10 ⁻⁹	9.8x10 ⁻⁹	0.3722
	Genitalia		-8.5x10 ⁻¹¹	8.5x10 ⁻⁹	0.5040		-5x10 ⁻⁹	1x10 ⁻⁸	0.6836		-6.3x10 ⁻⁹	1x10 ⁻⁸	0.7319
	Testis		5.7x10 ⁻⁹	7.2x10 ⁻⁹	0.2139		-6x10 ⁻⁹	8.9x10 ⁻⁹	0.7520		8x10 ⁻⁹	9.9x10 ⁻⁹	0.2089
	Gonads		1.2x10 ⁻⁹	8.3x10 ⁻⁹	0.4441		-3.9x10 ⁻⁹	1x10 ⁻⁸	0.6489		-3.4x10 ⁻⁹	1.1x10 ⁻⁸	0.6245
	Prostate		-3.6x10 ⁻⁹	8.5x10 ⁻⁹	0.6642		-1.1x10 ⁻⁹	9.2x10 ⁻⁹	0.8380		1.3x10 ⁻⁸	1.5x10 ⁻⁸	0.1997
	Oocytes		-6.5x10 ⁻⁹	7.8x10 ⁻⁹	0.7996		-1.8x10 ⁻⁸	9.5x10 ⁻⁹	0.9718		3.8x10 ⁻⁹	1x10 ⁻⁸	0.3530
	Cervix ectocervix		-6.3x10 ⁻⁹	8.3x10 ⁻⁹	0.7768		-6.6x10 ⁻⁹	9.3x10 ⁻⁹	0.7612		-6x10 ⁻⁹	1.2x10 ⁻⁸	0.6880
	Cervix endocervix		-6x10 ⁻¹⁰	9.2x10 ⁻⁹	0.5259		5.3x10 ⁻⁹	1.1x10 ⁻⁸	0.3096		-9.2x10 ⁻⁹	1.1x10 ⁻⁸	0.7989
	Fallopian tube		8.3x10 ⁻⁹	9.3x10 ⁻⁹	0.1880		2.2x10 ⁻⁸	1.1x10 ⁻⁸	0.0227		2.7x10 ⁻⁹	1x10 ⁻⁸	0.3993
	Ovary		1.6x10 ⁻⁸	7.8x10 ⁻⁹	0.0211		1.4x10 ⁻⁸	8.5x10 ⁻⁹	0.0488		1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0519
	Prostate		-1.3x10 ⁻⁹	8.8x10 ⁻⁹	0.5603		8.1x10 ⁻⁹	1.2x10 ⁻⁸	0.2421		-5.9x10 ⁻⁹	1.1x10 ⁻⁸	0.7081
	Testis		-3.8x10 ⁻⁹	6.3x10 ⁻⁹	0.7283		1.8x10 ⁻⁹	7.9x10 ⁻⁹	0.4088		-1.1x10 ⁻⁸	9.3x10 ⁻⁹	0.8704
	Uterus		4x10 ⁻⁹	8.3x10 ⁻⁹	0.3164		1.6x10 ⁻⁸	8.9x10 ⁻⁹	0.0394		-9.2x10 ⁻⁹	1.2x10 ⁻⁸	0.7834

Vagina		3.9×10^{-9}	8.1×10^{-9}	0.3150		7.9×10^{-9}	9.9×10^{-9}	0.2118		-5×10^{-9}	1×10^{-8}	0.6860
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Supplementary Table 4. Coefficients, standard errors, and p values for GTex CNS cell lines used for cell-type specific analyses individually and harmonic mean p within tissue category, bold indicates p<0.05

Category	Cell line	All glioma				GB				Non-GB			
		p _{HM}	Coefficient	SE	P-value	p _{HM}	Coefficient	SE	P	p _{HM}	Coefficient	SE	P-value
Cerebellum	Cerebellar hemisphere	0.0652	1.5x10 ⁻⁸	8.2x10 ⁻⁹	0.0354	0.0850	1.8x10 ⁻⁸	9.9x10 ⁻⁹	0.0382	0.3600	7.9x10 ⁻⁹	1.1x10 ⁻⁸	0.2415
	Cerebellum		9x10 ⁻⁹	7.4x10 ⁻⁹	0.1115		5x10 ⁻⁹	9.7x10 ⁻⁹	0.3050		5.6x10 ⁻⁹	1x10 ⁻⁸	0.2880
Cortex	Anterior cingulate cortex (BA24)	0.0570	1.2x10 ⁻⁸	6.1x10 ⁻⁹	0.0268	0.0061	2x10 ⁻⁸	7.1x10 ⁻⁹	0.0022	0.2498	1.2x10 ⁻⁸	8.7x10 ⁻⁹	0.0799
	Cortex		-2x10 ⁻⁹	7.5x10 ⁻⁹	0.6073		1.1x10 ⁻⁸	8.7x10 ⁻⁹	0.0998		-8.6x10 ⁻⁹	9.6x10 ⁻⁹	0.8160
	Frontal cortex (ba9)		1.2x10 ⁻⁸	6.8x10 ⁻⁹	0.0398		1.7x10 ⁻⁸	8.2x10 ⁻⁹	0.0187		6.7x10 ⁻⁹	9.4x10 ⁻⁹	0.2376
Other	Amygdala	0.5484	-7x10 ⁻¹⁰	7.4x10 ⁻⁹	0.5377	0.5413	9.6x10 ⁻⁹	9.1x10 ⁻⁹	0.1458	0.2445	-4.7x10 ⁻⁹	9.5x10 ⁻⁹	0.6896
	Hippocampus		3.8x10 ⁻¹⁰	7.3x10 ⁻⁹	0.4792		-2.7x10 ⁻⁹	8.8x10 ⁻⁹	0.6195		1.5x10 ⁻⁸	9.5x10 ⁻⁹	0.0577
	Hypothalamus		-1.1x10 ⁻⁸	6.1x10 ⁻⁹	0.9573		-1x10 ⁻⁸	7.4x10 ⁻⁹	0.9128		-1.6x10 ⁻⁸	8.2x10 ⁻⁹	0.9779
	Spinal cord (cervical c-1)		8.9x10 ⁻⁹	8.1x10 ⁻⁹	0.1353		1.4x10 ⁻⁹	8.6x10 ⁻⁹	0.4350		1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0834
	Substantia nigra		2.9x10 ⁻⁹	7.9x10 ⁻⁹	0.3569		5.5x10 ⁻⁹	9.4x10 ⁻⁹	0.2807		-7.6x10 ⁻⁹	9.4x10 ⁻⁹	0.7899
Striatum	Caudate (basal ganglia)	0.1770	1x10 ⁻⁸	7.5x10 ⁻⁹	0.0797	0.6505	3.9x10 ⁻¹⁰	7.6x10 ⁻⁹	0.4795	0.5512	1.9x10 ⁻⁹	1.1x10 ⁻⁸	0.4282
	Nucleus accumbens (basal ganglia)		8.6x10 ⁻⁹	8.3x10 ⁻⁹	0.1496		3.7x10 ⁻¹⁰	9x10 ⁻⁹	0.4835		1.5x10 ⁻⁹	9.6x10 ⁻⁹	0.4397
	Putamen (basal ganglia)		7.4x10 ⁻⁹	8.6x10 ⁻⁹	0.1968		-4.1x10 ⁻⁹	9.1x10 ⁻⁹	0.6731		4.6x10 ⁻⁹	1.1x10 ⁻⁸	0.3438

Supplementary Table 5. Coefficients, standard errors, and p values for ImmGen cell lines used for cell-type specific analyses individually and harmonic mean p (ρ_{HM}) within major and minor cell type category, bold indicates $p < 0.05$

Major Category	Minor Category	Cell line	All glioma					GB					Non-GB								
			ρ_{HM} (major)	ρ_{HM} (minor)	Coefficient	SE	P	ρ_{HM} (major)	ρ_{HM} (minor)	Coefficient	SE	P	ρ_{HM} (major)	ρ_{HM} (minor)	Coefficient	SE	P				
B	B1 cell	B1a.PC	0.5176	0.5719	-7.5x10 ⁻¹⁰	9.6x10 ⁻⁹	0.5311	0.8306	0.6974	-4.3x10 ⁻⁹	1.1x10 ⁻⁸	0.6487	0.0600	0.2011	1.4x10 ⁻⁸	1.6x10 ⁻⁸	0.1852				
		B1a.Sp			-4.2x10 ⁻⁹	1.1x10 ⁻⁸	0.6522			-9.3x10 ⁻⁹	1.3x10 ⁻⁸	0.7602			9.9x10 ⁻⁹	1.6x10 ⁻⁸	0.2681				
		B1b.PC			5.2x10 ⁻⁹	8.6x10 ⁻⁹	0.2714			-1.8x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5069			2.1x10 ⁻⁸	1.5x10 ⁻⁸	0.0792				
	B2 cell	B.Fo.LN		0.4017	4.6x10 ⁻⁹	8.9x10 ⁻⁹	0.3027		0.7117	-2.5x10 ⁻⁹	1x10 ⁻⁸	0.5979		0.0276	3.5x10 ⁻⁸	1.7x10 ⁻⁸	0.0181				
		B.Fo.MLN		1.2x10 ⁻⁸	1x10 ⁻⁸	0.1299	-6.7x10 ⁻¹⁰			1.2x10 ⁻⁸	0.5228	3.6x10 ⁻⁸			1.5x10 ⁻⁸	0.0097					
		B.Fo.PC		3.4x10 ⁻⁹	9.4x10 ⁻⁹	0.3591	1.1x10 ⁻⁹			1x10 ⁻⁸	0.4558	2.3x10 ⁻⁸			1.7x10 ⁻⁸	0.0960					
		B.Fo.Sp		2.9x10 ⁻⁹	9.7x10 ⁻⁹	0.3819	-3.3x10 ⁻⁹			1x10 ⁻⁸	0.6263	2.9x10 ⁻⁸			1.7x10 ⁻⁸	0.0451					
		B.MZ.Sp		9.1x10 ⁻⁹	1.1x10 ⁻⁸	0.2048	4.9x10 ⁻⁹			1.3x10 ⁻⁸	0.3539	2.7x10 ⁻⁸			1.8x10 ⁻⁸	0.0636					
	Other B cell	B.FrE.BM		0.2447	6.9x10 ⁻⁹	1x10 ⁻⁸	0.2470		0.3964	-6.4x10 ⁻⁹	1.2x10 ⁻⁸	0.7088		0.0266	3.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0117				
		B.FrE.FL		1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.1162	9.1x10 ⁻¹⁰			1.3x10 ⁻⁸	0.4716	2.9x10 ⁻⁸			1.3x10 ⁻⁸	0.0107					
		B.FrF.BM		-4.1x10 ⁻⁹	9.5x10 ⁻⁹	0.6671	-1.5x10 ⁻⁸			1x10 ⁻⁸	0.9256	2.3x10 ⁻⁸			1.8x10 ⁻⁸	0.0980					
		B.GC.Sp		1.6x10 ⁻⁸	1x10 ⁻⁸	0.0600	1.7x10 ⁻⁸			1.1x10 ⁻⁸	0.0650	2x10 ⁻⁸			1.7x10 ⁻⁸	0.1198					
		CD19Control		1.2x10 ⁻⁹	9.9x10 ⁻⁹	0.4513	-3.9x10 ⁻⁹			1.1x10 ⁻⁸	0.6386	2.6x10 ⁻⁸			1.7x10 ⁻⁸	0.0610					
	Prx10-B cell	preB.FrC.BM		0.2566	1.3x10 ⁻⁸	9.9x10 ⁻⁹	0.0918		0.3682	1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1114		0.3675	-7.1x10 ⁻¹⁰	1.3x10 ⁻⁸	0.5218				
		preB.FrD.BM		3.6x10 ⁻⁹	9x10 ⁻⁹	0.3427	-2.5x10 ⁻⁹			1x10 ⁻⁸	0.5962	5x10 ⁻⁹			1.3x10 ⁻⁸	0.3499					
		preB.FrD.FL		5.4x10 ⁻⁹	8.8x10 ⁻⁹	0.2699	-2.2x10 ⁻⁹			9.7x10 ⁻⁹	0.5913	1.8x10 ⁻⁸			1.6x10 ⁻⁸	0.1317					
	Pro-B cell	proB.CLP.BM		0.2864	8x10 ⁻⁹	8.8x10 ⁻⁹	0.1815		0.4904	5.2x10 ⁻¹⁰	1.2x10 ⁻⁸	0.4823		0.2926	1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0697				
		proB.CLP.FL			5.6x10 ⁻⁹	1.1x10 ⁻⁸	0.2963			4.3x10 ⁻⁹	1.3x10 ⁻⁸	0.3685			1.6x10 ⁻⁹	1.3x10 ⁻⁸	0.4521				
		proB.FrA.BM			1.4x10 ⁻⁸	1x10 ⁻⁸	0.0875			1.4x10 ⁻⁸	1.3x10 ⁻⁸	0.1403			1x10 ⁻⁸	1.2x10 ⁻⁸	0.2023				
		proB.FrA.FL			1.9x10 ⁻⁹	1x10 ⁻⁸	0.4281			2.7x10 ⁻⁹	1.3x10 ⁻⁸	0.4171			-5.9x10 ⁻⁹	1.3x10 ⁻⁸	0.6777				
		proB.FrBC.BM			5.1x10 ⁻⁹	9.9x10 ⁻⁹	0.3047			7.2x10 ⁻⁹	1.3x10 ⁻⁸	0.2917			8.7x10 ⁻⁹	1.2x10 ⁻⁸	0.2281				
		proB.FrBC.FL			1.5x10 ⁻⁸	1.1x10 ⁻⁸	0.1012			1x10 ⁻⁸	1.5x10 ⁻⁸	0.2421			1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1281				
	Transitional B cell	B.T1.Sp		0.5839	-3.3x10 ⁻⁹	1x10 ⁻⁸	0.6278		0.7597	-1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.9229		0.0489	3.1x10 ⁻⁸	1.7x10 ⁻⁸	0.0335				
		B.T2.Sp			1.7x10 ⁻⁹	9.9x10 ⁻⁹	0.4307			-6.5x10 ⁻⁹	1.1x10 ⁻⁸	0.7251			2.7x10 ⁻⁸	1.6x10 ⁻⁸	0.0491				
		B.T3.Sp			3.8x10 ⁻⁹	9.3x10 ⁻⁹	0.3388			-6.8x10 ⁻⁹	9.9x10 ⁻⁹	0.7536			2.9x10 ⁻⁸	1.7x10 ⁻⁸	0.0432				
	Myeloid	Basophils		BA.BI	0.0352	0.6400	-1.6x10 ⁻⁹		9x10 ⁻⁹	0.5716	0.1491	0.6746		-3.3x10 ⁻⁹	1.1x10 ⁻⁸	0.6223	0.0936	0.5085	-5.4x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5199
				BA.Sp			-6x10 ⁻⁹		8.7x10 ⁻⁹	0.7561				-1.5x10 ⁻⁸	9.6x10 ⁻⁹	0.9425			4.1x10 ⁻⁹	1x10 ⁻⁸	0.3459
		Dendritic cell		DC.103-11b+24+.Lu		0.0079	2.2x10 ⁻⁸		1x10 ⁻⁸	0.0161		0.0306		2.5x10 ⁻⁸	1.2x10 ⁻⁸	0.0236		0.0186	2.9x10 ⁻⁸	1.4x10 ⁻⁸	0.0211
DC.103+11b-.Lu			1.5x10 ⁻⁸	1.1x10 ⁻⁸			0.0790	2.2x10 ⁻⁸	1.3x10 ⁻⁸	0.0417			8.7x10 ⁻⁹	1.1x10 ⁻⁸	0.2159						
DC.103+11b-.Lv			1.1x10 ⁻⁸	9.6x10 ⁻⁹			0.1275	-2x10 ⁻⁹	1.1x10 ⁻⁸	0.5751			2.3x10 ⁻⁸	1.3x10 ⁻⁸	0.0422						
DC.4+.MLN			2.6x10 ⁻⁸	1.2x10 ⁻⁸			0.0148	2.6x10 ⁻⁸	1.5x10 ⁻⁸	0.0375			2.7x10 ⁻⁸	1.5x10 ⁻⁸	0.0311						
DC.4+.SLN			3.7x10 ⁻⁸	1.2x10 ⁻⁸			0.0012	3.3x10 ⁻⁸	1.5x10 ⁻⁸	0.0110			3.4x10 ⁻⁸	1.3x10 ⁻⁸	0.0034						
DC.8-.Th			1.5x10 ⁻⁸	1x10 ⁻⁸			0.0687	1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0492			1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0771						
DC.8-4-11b-.MLN			1.7x10 ⁻⁸	1.1x10 ⁻⁸			0.0683	1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1225			3x10 ⁻⁸	1.5x10 ⁻⁸	0.0252						
DC.8-4-11b-.SLN			2x10 ⁻⁸	1.1x10 ⁻⁸			0.0413	1.7x10 ⁻⁸	1.3x10 ⁻⁸	0.0972			3.9x10 ⁻⁸	1.6x10 ⁻⁸	0.0062						
DC.8-4-11b-.Sp			2.5x10 ⁻⁸	1.1x10 ⁻⁸			0.0127	2.5x10 ⁻⁸	1.4x10 ⁻⁸	0.0340			3.2x10 ⁻⁸	1.3x10 ⁻⁸	0.0065						
DC.8-4-11b+.MLN			1.8x10 ⁻⁸	1.2x10 ⁻⁸			0.0644	2.3x10 ⁻⁸	1.4x10 ⁻⁸	0.0503			2.9x10 ⁻⁸	1.6x10 ⁻⁸	0.0332						
DC.8-4-11b+.SLN			1.3x10 ⁻⁸	1.1x10 ⁻⁸			0.1245	2.3x10 ⁻⁸	1.3x10 ⁻⁸	0.0435			2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0605						
DC.8-4-11b+.Sp			3.7x10 ⁻⁸	1.1x10 ⁻⁸			0.00072	3.9x10 ⁻⁸	1.4x10 ⁻⁸	0.0023			3.2x10 ⁻⁸	1.5x10 ⁻⁸	0.0153						
DC.8+.MLN			1.1x10 ⁻⁸	1x10 ⁻⁸			0.1435	9.5x10 ⁻⁹	1.1x10 ⁻⁸	0.1924			2.5x10 ⁻⁸	1.5x10 ⁻⁸	0.0429						
DC.8+.SLN			2x10 ⁻⁸	1x10 ⁻⁸			0.0272	1x10 ⁻⁸	1.1x10 ⁻⁸	0.1707			3.8x10 ⁻⁸	1.5x10 ⁻⁸	0.0046						
DC.8+.Th			1.3x10 ⁻⁸	9.7x10 ⁻⁹			0.0920	1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.0972			1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0570						
DC.IIhilang-103-11b+.SLN			1.4x10 ⁻⁸	1.1x10 ⁻⁸			0.1035	1.5x10 ⁻⁸	1.4x10 ⁻⁸	0.1300			2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0691						
DC.IIhilang-103-11blo.SLN			2.3x10 ⁻⁸	1.2x10 ⁻⁸			0.0303	2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0607			2.6x10 ⁻⁸	1.6x10 ⁻⁸	0.0443						
DC.IIhilang+103-11b+.SLN			1.6x10 ⁻⁸	9.9x10 ⁻⁹			0.0490	9.7x10 ⁻⁹	1.1x10 ⁻⁸	0.1955			2.4x10 ⁻⁸	1.4x10 ⁻⁸	0.0414						
DC.IIhilang+103+11blo.SLN			2.2x10 ⁻⁹	1.1x10 ⁻⁸			0.4238	-1.3x10 ⁻⁹	1.3x10 ⁻⁸	0.5404			2.2x10 ⁻⁸	1.6x10 ⁻⁸	0.0917						

Macrophage	DC.LC.Sk	0.7514	1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1752	0.5468	1x10 ⁻⁸	1.4x10 ⁻⁸	0.2366	0.9432	1.1x10 ⁻⁸	1.5x10 ⁻⁸	0.2375
	MF.103-11b+.Lu		2.1x10 ⁻⁸	1.2x10 ⁻⁸	0.0454		2.5x10 ⁻⁸	1.4x10 ⁻⁸	0.0429		1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1081
	MF.103-11b+.Salm3.SI		3.8x10 ⁻⁹	1.1x10 ⁻⁸	0.3645		1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0833		-8.1x10 ⁻⁹	1.3x10 ⁻⁸	0.7383
	MF.103-11b+.SI		-1x10 ⁻⁹	1x10 ⁻⁸	0.5403		1.1x10 ⁻⁸	1.1x10 ⁻⁸	0.1448		-4.3x10 ⁻⁹	1.2x10 ⁻⁸	0.6379
	MF.11c-11b+.Lu		-1.2x10 ⁻⁸	1x10 ⁻⁸	0.8866		-5.6x10 ⁻⁹	1.1x10 ⁻⁸	0.6885		-2x10 ⁻⁸	1.2x10 ⁻⁸	0.9513
	MF.11cloSer.Salm3.SI		1.1x10 ⁻⁹	1.1x10 ⁻⁸	0.4582		1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0813		-8.7x10 ⁻⁹	1.3x10 ⁻⁸	0.7540
	MF.11cloSer.SI		-8.1x10 ⁻¹⁰	1x10 ⁻⁸	0.5310		1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1271		-8.8x10 ⁻⁹	1.3x10 ⁻⁸	0.7512
	MF.169+11chi.SLN		8.7x10 ⁻⁹	1x10 ⁻⁸	0.1980		2.6x10 ⁻⁹	1.1x10 ⁻⁸	0.4096		1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.1865
	MF.480hi.LV.Naive		-2.4x10 ⁻⁹	9x10 ⁻⁹	0.6053		5.7x10 ⁻¹⁰	9.2x10 ⁻⁹	0.4755		-3.6x10 ⁻⁹	1.3x10 ⁻⁸	0.6055
	MF.480int.LV.Naive		2.1x10 ⁻⁹	9.9x10 ⁻⁹	0.4177		2.2x10 ⁻⁹	1.1x10 ⁻⁸	0.4193		-5.8x10 ⁻⁹	1.3x10 ⁻⁸	0.6734
	MF.Alv.Lu		6x10 ⁻⁹	8.6x10 ⁻⁹	0.2425		8.6x10 ⁻⁹	9.8x10 ⁻⁹	0.1896		-4.6x10 ⁻⁹	1.1x10 ⁻⁸	0.6669
	MF.BM		3.8x10 ⁻⁹	1.6x10 ⁻⁸	0.4046		-6x10 ⁻⁹	1.8x10 ⁻⁸	0.6295		7.3x10 ⁻⁹	1.8x10 ⁻⁸	0.3415
	MF.F480hi.ctrl.PC		-1.1x10 ⁻⁸	8.6x10 ⁻⁹	0.9017		-6.9x10 ⁻⁹	9.8x10 ⁻⁹	0.7579		-1.9x10 ⁻⁸	1.1x10 ⁻⁸	0.9569
	MF.F480hi.Gata6ko.PC		-6.3x10 ⁻⁹	8.8x10 ⁻⁹	0.7634		-5x10 ⁻⁹	1x10 ⁻⁸	0.6912		-1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.8490
	MF.II-480hi.PC		-7.3x10 ⁻¹⁰	1x10 ⁻⁸	0.5288		7.3x10 ⁻⁹	1.2x10 ⁻⁸	0.2644		-1.3x10 ⁻⁸	1.3x10 ⁻⁸	0.5405
	MF.II+480lo.PC		7.5x10 ⁻¹⁰	1.2x10 ⁻⁸	0.4742		3x10 ⁻⁹	1.3x10 ⁻⁸	0.4081		-2.5x10 ⁻⁹	1.5x10 ⁻⁸	0.5663
	MF.Lu		7.3x10 ⁻⁹	9x10 ⁻⁹	0.2089		6.6x10 ⁻⁹	1x10 ⁻⁸	0.2639		1.3x10 ⁻¹⁰	1.1x10 ⁻⁸	0.4952
	MF.Medl.SLN		-4.3x10 ⁻⁹	9.7x10 ⁻⁹	0.6701		-6.2x10 ⁻⁹	1.1x10 ⁻⁸	0.7173		-1x10 ⁻⁸	1.2x10 ⁻⁸	0.8062
	MF.Microglia.CNS		1.6x10 ⁻⁸	1.2x10 ⁻⁸	0.0983		1.5x10 ⁻⁸	1.4x10 ⁻⁸	0.1576		1x10 ⁻⁸	1.2x10 ⁻⁸	0.2003
	MF.PPAR-.Lu		-1.2x10 ⁻⁹	1x10 ⁻⁸	0.5478		-7.9x10 ⁻¹⁰	1.2x10 ⁻⁸	0.5259		-1x10 ⁻⁸	1.3x10 ⁻⁸	0.7786
	MF.RP.Sp		8.5x10 ⁻¹⁰	9.8x10 ⁻⁹	0.4656		7.3x10 ⁻⁹	1.1x10 ⁻⁸	0.2500		-8.7x10 ⁻¹⁰	1.3x10 ⁻⁸	0.5263
	MF.Sbcaps.SLN		6.1x10 ⁻⁹	9.6x10 ⁻⁹	0.2640		-3.5x10 ⁻⁹	1.1x10 ⁻⁸	0.6255		5.4x10 ⁻⁹	9.7x10 ⁻⁹	0.2893
	MF.Thio5.II-480hi.PC		-8.6x10 ⁻⁹	1x10 ⁻⁸	0.7980		2.6x10 ⁻⁹	1.2x10 ⁻⁸	0.4152		-2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.9377
	MF.Thio5.II-480int.PC		-1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.8860		-4.1x10 ⁻⁹	1.2x10 ⁻⁸	0.6294		-2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.9468
	MF.Thio5.II+480int.PC		-1x10 ⁻⁸	1.1x10 ⁻⁸	0.8191		-2.3x10 ⁻⁹	1.2x10 ⁻⁸	0.5726		-1.7x10 ⁻⁸	1.3x10 ⁻⁸	0.8903
	MF.Thio5.II+480lo.PC		7.8x10 ⁻⁹	1.2x10 ⁻⁸	0.2520		1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.1997		3.2x10 ⁻⁹	1.5x10 ⁻⁸	0.4130
	Mast cell		MC.digest.PC	0.8773	-1.9x10 ⁻⁹		8.4x10 ⁻⁹	0.5874	0.6624		4.3x10 ⁻⁹	1x10 ⁻⁸	0.3364
MC.Es		-1.1x10 ⁻⁸	7.9x10 ⁻⁹		0.9169	-3x10 ⁻⁹	1.1x10 ⁻⁸	0.6113		-1.1x10 ⁻⁸	9.3x10 ⁻⁹	0.8805	
MC.PC		-5.6x10 ⁻⁹	8.7x10 ⁻⁹		0.7422	5.6x10 ⁻⁹	1.1x10 ⁻⁸	0.3053		-7x10 ⁻⁹	1.1x10 ⁻⁸	0.8149	
MC.Sk		-1.1x10 ⁻⁸	7.7x10 ⁻⁹		0.9286	8.1x10 ⁻¹⁰	9.4x10 ⁻⁹	0.4655		-2.2x10 ⁻⁸	1.1x10 ⁻⁸	0.9733	
MC.To		-1.5x10 ⁻⁸	7.9x10 ⁻⁹		0.9732	-6.2x10 ⁻⁹	9.6x10 ⁻⁹	0.7397		-1.9x10 ⁻⁸	1.1x10 ⁻⁸	0.9568	
MC.Tr		-4.8x10 ⁻⁹	8.4x10 ⁻⁹		0.7153	6.5x10 ⁻⁹	1.1x10 ⁻⁸	0.2751		-1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.9024	
Monocyte	Mo.6+2-.BL	0.3449	2x10 ⁻⁹	8.8x10 ⁻⁹	0.4085	0.4782	8.1x10 ⁻¹⁰	9.2x10 ⁻⁹	0.4647	0.3741	8.8x10 ⁻⁹	1.2x10 ⁻⁸	0.2394
	Mo.6+2+.BL		1.7x10 ⁻⁹	1x10 ⁻⁸	0.4325		4x10 ⁻⁹	1x10 ⁻⁸	0.3480		5.4x10 ⁻⁹	1.4x10 ⁻⁸	0.3457
	Mo.6+2+.MLN		2.4x10 ⁻⁹	8.4x10 ⁻⁹	0.3860		2.6x10 ⁻⁹	8.8x10 ⁻⁹	0.3834		6.2x10 ⁻⁹	1.1x10 ⁻⁸	0.2880
	Mo.6+2+.SLN		1.5x10 ⁻⁹	1x10 ⁻⁸	0.4392		6.7x10 ⁻⁹	1x10 ⁻⁸	0.2551		-1.2x10 ⁻⁹	1.3x10 ⁻⁸	0.5365
	Mo.6C-II-.Bl		1x10 ⁻⁹	9.3x10 ⁻⁹	0.4565		-5.4x10 ⁻¹⁰	9.4x10 ⁻⁹	0.5227		5.5x10 ⁻⁹	1.2x10 ⁻⁸	0.3281
	Mo.6C-II-.BM		1.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0897		2.4x10 ⁻⁸	1.5x10 ⁻⁸	0.0482		9.7x10 ⁻⁹	1.6x10 ⁻⁸	0.2783
	Mo.6C-II+.Bl		1.8x10 ⁻⁸	9.7x10 ⁻⁹	0.0310		7.5x10 ⁻⁹	1.1x10 ⁻⁸	0.2381		2x10 ⁻⁸	1.1x10 ⁻⁸	0.0302
	Mo.6C-IIint.Bl		-2.6x10 ⁻⁹	9x10 ⁻⁹	0.6160		-3.4x10 ⁻⁹	9.4x10 ⁻⁹	0.6418		7.4x10 ⁻⁹	1.3x10 ⁻⁸	0.2761
	Mo.6C+II-.Bl		-1x10 ⁻⁸	1x10 ⁻⁸	0.8466		-1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.8833		-2.7x10 ⁻⁹	1.3x10 ⁻⁸	0.5830
	Mo.6C+II-.BM		1.8x10 ⁻⁸	1.7x10 ⁻⁸	0.1400		1.7x10 ⁻⁸	1.9x10 ⁻⁸	0.1847		1.1x10 ⁻⁸	1.8x10 ⁻⁸	0.2638
	Mo.6C+II-.LN		1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1540		1.5x10 ⁻⁸	1.4x10 ⁻⁸	0.1269		1.2x10 ⁻⁸	1.3x10 ⁻⁸	0.1780
	Mo.6C+II+.Bl		4.4x10 ⁻¹¹	1x10 ⁻⁸	0.4983		-3x10 ⁻⁹	1.1x10 ⁻⁸	0.6083		1.6x10 ⁻⁹	1.3x10 ⁻⁸	0.4519
	Mo.Lu		3x10 ⁻⁹	1x10 ⁻⁸	0.3879		3.6x10 ⁻⁹	1.1x10 ⁻⁸	0.3741		4.1x10 ⁻⁹	1.5x10 ⁻⁸	0.3910
	Neutrophils		GN.Arth.BM	0.4189	1.3x10 ⁻⁸		1.1x10 ⁻⁸	0.1324	0.4672		1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1157
GN.Arth.SynF		5.2x10 ⁻⁹	1.2x10 ⁻⁸		0.3338	5.4x10 ⁻⁹	1.4x10 ⁻⁸	0.3538		3x10 ⁻⁹	1.3x10 ⁻⁸	0.4051	
GN.Bl		-1.1x10 ⁻⁸	1.1x10 ⁻⁸		0.8592	-1.2x10 ⁻⁸	1.3x10 ⁻⁸	0.8303		-1x10 ⁻⁸	1.1x10 ⁻⁸	0.8201	
GN.BM		1.5x10 ⁻⁸	1.2x10 ⁻⁸		0.1060	1.2x10 ⁻⁸	1.4x10 ⁻⁸	0.1831		8.5x10 ⁻⁹	1.5x10 ⁻⁸	0.2880	
GN.Thio.PC		3.5x10 ⁻⁹	1x10 ⁻⁸		0.3626	5.7x10 ⁻⁹	1.1x10 ⁻⁸	0.3081		-4.7x10 ⁻⁹	1.3x10 ⁻⁸	0.6362	
GN.UrAc.PC		-2.4x10 ⁻⁹	1.1x10 ⁻⁸		0.5857	-3.8x10 ⁻⁹	1.3x10 ⁻⁸	0.6164		-4.8x10 ⁻⁹	1.3x10 ⁻⁸	0.6397	
DC.pDC.8-.Sp	0.2347	1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1387	0.3993	9.4x10 ⁻⁹	1.2x10 ⁻⁸	0.2234	0.2765	8.7x10 ⁻⁹	1.2x10 ⁻⁸	0.2330	

	Plasmacytoid dendritic cell.	DC.pDC.8+.MLN	0.0601	0.6488	1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.1112	0.0201	0.7485	2.3x10 ⁻⁹	1.3x10 ⁻⁸	0.4298	0.4724	0.6802	1.9x10 ⁻⁸	1.3x10 ⁻⁸	0.0779						
		DC.pDC.8+.SLN			9.9x10 ⁻⁹	1.1x10 ⁻⁸	0.1828			9.4x10 ⁻⁹	1.3x10 ⁻⁸	0.2286			5.6x10 ⁻⁹	1.2x10 ⁻⁸	0.3133						
		DC.pDC.8+.Sp			9x10 ⁻⁹	1.1x10 ⁻⁸	0.2086			1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1975			3.6x10 ⁻⁹	1.2x10 ⁻⁸	0.3788						
	Stem cell	SC.CDP.BM			0.5777	-3.2x10 ⁻⁹	1.1x10 ⁻⁸			0.6086	0.6140	9.1x10 ⁻⁹			1.4x10 ⁻⁸	0.2609	0.6734	-6.8x10 ⁻⁹	1.4x10 ⁻⁸	0.6881			
		SC.CMP.BM.DR			5.1x10 ⁻⁹	8.8x10 ⁻⁹	0.2815			2x10 ⁻⁹	1.1x10 ⁻⁸	0.4255			-3.4x10 ⁻⁹	1.2x10 ⁻⁸	0.6141						
		SC.GMP.BM			9.3x10 ⁻⁹	1.7x10 ⁻⁸	0.2899			-1.5x10 ⁻⁹	2.1x10 ⁻⁸	0.5289			1.2x10 ⁻⁸	1.9x10 ⁻⁸	0.2510						
		SC.MDP.BM			3.4x10 ⁻⁹	1.1x10 ⁻⁸	0.3823			2.2x10 ⁻⁹	1.4x10 ⁻⁸	0.4409			5.3x10 ⁻⁹	1.5x10 ⁻⁸	0.3609						
		SC.MEP.BM			4x10 ⁻⁹	9.8x10 ⁻⁹	0.3403			4x10 ⁻⁹	1.2x10 ⁻⁸	0.3692			-6.9x10 ⁻⁹	1.4x10 ⁻⁸	0.6887						
		NK			Innate Lymphocytes (G3)	ILC3.NKp46-.4-.SI	0.6488			-1.4x10 ⁻⁸	8x10 ⁻⁹	0.9621			0.7485	-1.9x10 ⁻⁸	9.9x10 ⁻⁹	0.9700	0.4724	0.6802	-7.6x10 ⁻⁹	9.1x10 ⁻⁹	0.7977
						ILC3.NKp46-.4+.SI	3.6x10 ⁻⁹			8.1x10 ⁻⁹	0.3292	-2.5x10 ⁻⁹			9.6x10 ⁻⁹	0.6023	1.5x10 ⁻⁹	9.9x10 ⁻⁹	0.4406				
ILC3.NKp46+.Rorgthi.SI	-2.8x10 ⁻⁹		8.5x10 ⁻⁹	0.6280		-7.1x10 ⁻⁹	9.3x10 ⁻⁹	0.7785	-3.4x10 ⁻⁹	1.1x10 ⁻⁸	0.6254												
NK cell	NK.49CI-.Sp		0.1282	2.8x10 ⁻⁹	1x10 ⁻⁸	0.3882	0.0127	1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1033	0.9387	-9.7x10 ⁻⁹	1.4x10 ⁻⁸	0.7569									
	NK.49CI+.Sp		1.4x10 ⁻⁸	9.4x10 ⁻⁹	0.0718	3.2x10 ⁻⁸	1.1x10 ⁻⁸	0.0030	-1.6x10 ⁻⁸	1x10 ⁻⁸	0.9457												
	NK.49H-.Sp		2x10 ⁻⁸	1.3x10 ⁻⁸	0.0557	3.6x10 ⁻⁸	1.6x10 ⁻⁸	0.0115	1.7x10 ⁻⁹	1.2x10 ⁻⁸	0.4437												
	NK.49H+.Sp		1x10 ⁻⁸	1.2x10 ⁻⁸	0.1918	1.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0858	-2.9x10 ⁻⁹	1.4x10 ⁻⁸	0.5842												
	NK.b2m-.Sp		1.1x10 ⁻⁸	1x10 ⁻⁸	0.1282	2.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0133	-5.2x10 ⁻⁹	1.3x10 ⁻⁸	0.6534												
	NK.CD127-.SI		-5.3x10 ⁻⁹	8.9x10 ⁻⁹	0.7248	-4.5x10 ⁻⁹	9.2x10 ⁻⁹	0.6887	-5.1x10 ⁻⁹	1.2x10 ⁻⁸	0.6580												
	NK.CD127-.Sp		-1.7x10 ⁻⁸	8.1x10 ⁻⁹	0.9831	-2x10 ⁻⁸	9.6x10 ⁻⁹	0.9815	-5.2x10 ⁻⁹	1x10 ⁻⁸	0.6905												
	NK.CD49b+.Lv	-2.4x10 ⁻⁸	7.6x10 ⁻⁹	0.9992	-1.8x10 ⁻⁸	8.9x10 ⁻⁹	0.9811	-1.4x10 ⁻⁸	1x10 ⁻⁸	0.9271													
	NK.DAP10-.Sp	2.1x10 ⁻⁸	1.1x10 ⁻⁸	0.0254	1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1137	1.2x10 ⁻⁸	1.5x10 ⁻⁸	0.2200													
	NK.DAP12-.Sp	7.1x10 ⁻⁹	9.6x10 ⁻⁹	0.2281	1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0533	-9.3x10 ⁻⁹	1.1x10 ⁻⁸	0.8108													
	NK.H+.MCMV1.Sp	1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1437	2.1x10 ⁻⁸	1.3x10 ⁻⁸	0.0529	-9.5x10 ⁻⁹	1.1x10 ⁻⁸	0.7961													
	NK.H+.MCMV7.Sp	1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.1043	2.3x10 ⁻⁸	1.3x10 ⁻⁸	0.0330	-4.1x10 ⁻⁹	1.1x10 ⁻⁸	0.6467													
	NK.MCMV1.Sp	2.3x10 ⁻⁸	1.1x10 ⁻⁸	0.0160	4x10 ⁻⁸	1.3x10 ⁻⁸	0.0015	3x10 ⁻⁹	1x10 ⁻⁸	0.3873													
	NK.MCMV7.Sp	5.4x10 ⁻⁹	8.9x10 ⁻⁹	0.2744	4.6x10 ⁻⁹	1.1x10 ⁻⁸	0.3375	-7.8x10 ⁻⁹	1.2x10 ⁻⁸	0.7422													
	NK.Sp	1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1437	2.7x10 ⁻⁸	1.5x10 ⁻⁸	0.0384	-2.9x10 ⁻⁹	1.1x10 ⁻⁸	0.6077													
	NKT cell	NKT.4-.Lv	0.0210	1.2x10 ⁻⁸	1x10 ⁻⁸	0.1169	0.0721	1.9x10 ⁻⁸	1.3x10 ⁻⁸	0.0771	0.0986	-5.7x10 ⁻⁹	1.1x10 ⁻⁸	0.6983									
		NKT.4-.Sp	2.1x10 ⁻⁸	1.1x10 ⁻⁸	0.0284	2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0608	1.1x10 ⁻⁸	1.4x10 ⁻⁸	0.1977												
NKT.4+.Lv		1.9x10 ⁻⁸	1.1x10 ⁻⁸	0.0439	2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0602	1.1x10 ⁻⁸	1.8x10 ⁻⁸	0.2590													
NKT.4+.Sp		3.5x10 ⁻⁸	1.3x10 ⁻⁸	0.0049	3.3x10 ⁻⁸	1.7x10 ⁻⁸	0.0257	3x10 ⁻⁸	1.4x10 ⁻⁸	0.0158													
NKT.44-NK1.1-.Th		2.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0100	2.5x10 ⁻⁸	1.4x10 ⁻⁸	0.0345	2x10 ⁻⁸	1.2x10 ⁻⁸	0.0482													
NKT.44+NK1.1-.Th		2x10 ⁻⁹	9.2x10 ⁻⁹	0.4145	-5.7x10 ⁻⁹	1.1x10 ⁻⁸	0.6965	7x10 ⁻⁹	1.2x10 ⁻⁸	0.2834													
NKT.44+NK1.1+.Th		2.3x10 ⁻⁹	1x10 ⁻⁸	0.4089	1.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0799	-9.4x10 ⁻⁹	1.2x10 ⁻⁸	0.7908													
Other		Blood Endothelial cell	BEC.MLN	0.5133	0.1218	1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1426	0.0724	0.2621	9x10 ⁻⁹	1.4x10 ⁻⁸	0.2588	0.9237	0.4063	7.4x10 ⁻⁹	1.1x10 ⁻⁸	0.2578					
	BEC.SLN		1.4x10 ⁻⁸	9.5x10 ⁻⁹	0.0692	1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1475	3.4x10 ⁻⁹	1x10 ⁻⁸	0.3689												
	Epithelial cell	Ep.5wk.MEC.Sca1+.Th	0.8507	-2.6x10 ⁻⁹	8.4x10 ⁻⁹	0.6218	0.7777	2.9x10 ⁻⁹	1x10 ⁻⁸	0.3884	0.9212	-1.2x10 ⁻⁸	9.1x10 ⁻⁹	0.9113									
		Ep.5wk.MEChi.Th	-1.9x10 ⁻⁹	8.8x10 ⁻⁹	0.5837	1.8x10 ⁻⁹	1.1x10 ⁻⁸	0.4312	-4.5x10 ⁻⁹	9.6x10 ⁻⁹	0.6787												
		Ep.5wk.MEClo.Th	-1.5x10 ⁻⁹	8x10 ⁻⁹	0.5754	3.7x10 ⁻⁹	9.4x10 ⁻⁹	0.3481	-1.7x10 ⁻⁸	9.2x10 ⁻⁹	0.9680												
		Ep.8wk.CEC.Sca1+.Th	-8.5x10 ⁻⁹	7.7x10 ⁻⁹	0.8647	-8.1x10 ⁻⁹	9.7x10 ⁻⁹	0.7988	-1.4x10 ⁻⁸	9.5x10 ⁻⁹	0.9370												
		Ep.8wk.CEChi.Th	-1.1x10 ⁻⁸	8.4x10 ⁻⁹	0.9097	-8.6x10 ⁻⁹	1x10 ⁻⁸	0.8017	-1.5x10 ⁻⁸	9.3x10 ⁻⁹	0.9463												
		Ep.8wk.MEChi.Th	-1.8x10 ⁻⁹	9.2x10 ⁻⁹	0.5773	-6.7x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5251	-2.4x10 ⁻⁹	1x10 ⁻⁸	0.5954												
		Ep.8wk.MEClo.Th	-3.8x10 ⁻⁹	7.4x10 ⁻⁹	0.6975	-8x10 ⁻¹⁰	9.3x10 ⁻⁹	0.5345	-1.8x10 ⁻⁸	9x10 ⁻⁹	0.9765												
		Ep.MEChi.Th	4.2x10 ⁻⁹	8x10 ⁻⁹	0.3004	4.1x10 ⁻⁹	8.7x10 ⁻⁹	0.3214	-3x10 ⁻⁹	9.5x10 ⁻⁹	0.6229												
	Fibroblasts	Fi.MTS15+.Th	0.1178	1.6x10 ⁻⁸	8.6x10 ⁻⁹	0.0290	0.3734	1.2x10 ⁻⁸	9.8x10 ⁻⁹	0.1083	0.3691	1.1x10 ⁻⁸	1.1x10 ⁻⁸	0.1527									
		Fi.Sk	9.3x10 ⁻⁹	1x10 ⁻⁸	0.1742	6.2x10 ⁻⁹	1.2x10 ⁻⁸	0.2959	7.8x10 ⁻⁹	1.1x10 ⁻⁸	0.2339												
		FRC.MLN	6.3x10 ⁻⁹	9x10 ⁻⁹	0.2419	3.6x10 ⁻⁹	1.2x10 ⁻⁸	0.3788	5x10 ⁻⁹	1.1x10 ⁻⁸	0.3197												
		FRC.SLN	2.7x10 ⁻⁹	8.4x10 ⁻⁹	0.3731	8x10 ⁻¹⁰	1.2x10 ⁻⁸	0.4725	5.9x10 ⁻⁹	1x10 ⁻⁸	0.2763												
	Innate Lymphocytes (G1/G2)	ILC1.CD127+.SI	0.5801	3.8x10 ⁻⁹	9.6x10 ⁻⁹	0.3447	0.5496	1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1818	0.3741	-4.7x10 ⁻⁹	1.2x10 ⁻⁸	0.6574									
		ILC1.CD127+.Sp	-2.1x10 ⁻⁸	7.2x10 ⁻⁹	0.9983	-2.2x10 ⁻⁸	8.5x10 ⁻⁹	0.9957	-1.5x10 ⁻⁸	8.8x10 ⁻⁹	0.9546												
		ILC1.CD49b-.Lv	-1x10 ⁻⁸	9.4x10 ⁻⁹	0.8614	-8.5x10 ⁻⁹	1.1x10 ⁻⁸	0.7806	-1.2x10 ⁻⁸	1x10 ⁻⁸	0.8875												
		ILC2.SI	7.6x10 ⁻⁹	8.6x10 ⁻⁹	0.1872	4.6x10 ⁻⁹	8.4x10 ⁻⁹	0.2913	1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0733												

	Stem cell	MLP.BM	0.0405	0.2782	1.6x10 ⁻⁹	9.6x10 ⁻⁹	0.4358	0.0944	0.0157	1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1055	0.1284	0.8550	-1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.8180		
		MLP.FL			6.5x10 ⁻⁹	9.7x10 ⁻⁹	0.2529			4.8x10 ⁻⁹	1.1x10 ⁻⁸	0.3376			6.6x10 ⁻⁹	1.3x10 ⁻⁸	0.3085		
		SC.LT34F.BM			7.6x10 ⁻⁹	8.3x10 ⁻⁹	0.1810			1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0638			3.8x10 ⁻⁹	1.1x10 ⁻⁸	0.3608		
		SC.LTSL.FL			8.3x10 ⁻⁹	8.9x10 ⁻⁹	0.1752			2.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0101			-1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.9309		
		SC.MPP34F.BM			1.2x10 ⁻⁸	9.5x10 ⁻⁹	0.0947			2.3x10 ⁻⁸	1.2x10 ⁻⁸	0.0279			-5.5x10 ⁻⁹	1.2x10 ⁻⁸	0.6741		
		SC.ST34F.BM			1x10 ⁻⁸	8.9x10 ⁻⁹	0.1301			2.6x10 ⁻⁸	1.2x10 ⁻⁸	0.0145			-8.9x10 ⁻⁹	1.2x10 ⁻⁸	0.7718		
		SC.STSL.BM			-4.4x10 ⁻⁹	8.4x10 ⁻⁹	0.6990			4.5x10 ⁻⁹	1x10 ⁻⁸	0.3324			-9.4x10 ⁻⁹	1.1x10 ⁻⁸	0.8108		
		SC.STSL.FL			1.4x10 ⁻⁸	9.5x10 ⁻⁹	0.0712			2.9x10 ⁻⁸	1.1x10 ⁻⁸	0.0031			-9.5x10 ⁻⁹	1.2x10 ⁻⁸	0.7818		
	Stromal cell	LEC.MLN		0.5157	0.6153	1.1x10 ⁻⁸	9.2x10 ⁻⁹		0.1183	0.5622	8.4x10 ⁻⁹	1.2x10 ⁻⁸		0.2391	9.8x10 ⁻⁹	1x10 ⁻⁸	0.1726		
		LEC.SLN				7.9x10 ⁻⁹	9.2x10 ⁻⁹		0.1954		6.8x10 ⁻⁹	1.2x10 ⁻⁸		0.2856	1.1x10 ⁻⁸	1x10 ⁻⁸	0.1514		
		MEChi.GFP-.Adult				-4.8x10 ⁻⁹	7.4x10 ⁻⁹		0.7400		1.8x10 ⁻⁹	8.6x10 ⁻⁹		0.4182	-3.4x10 ⁻⁹	9.7x10 ⁻⁹	0.6385		
		MEChi.GFP+.Adult				-2.6x10 ⁻⁹	9.1x10 ⁻⁹		0.6129		2.7x10 ⁻⁹	1.1x10 ⁻⁸		0.3999	-9.8x10 ⁻⁹	9.7x10 ⁻⁹	0.8421		
		MEChi.GFP+.Adult.KO				4.8x10 ⁻¹⁰	8x10 ⁻⁹		0.4762		3.8x10 ⁻⁹	9.5x10 ⁻⁹		0.3447	-5.7x10 ⁻⁹	8.3x10 ⁻⁹	0.7554		
		St.31-38-44-.SLN				3.4x10 ⁻¹⁰	8.9x10 ⁻⁹		0.4848		-1x10 ⁻⁸	1.1x10 ⁻⁸		0.8148	1.5x10 ⁻⁹	1x10 ⁻⁸	0.4401		
T	CD4-/CD8-T cell	T.DN4.Th	0.0405	0.0265	2x10 ⁻⁸	1x10 ⁻⁸	0.0242	0.0944	0.0295	2.4x10 ⁻⁸	1.3x10 ⁻⁸	0.0268	0.1284	0.1067	1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0880		
CD4+ T cell	ABD.TR.14w.B6	0.0369			0.1203	1.9x10 ⁻⁹	1.2x10 ⁻⁸			0.4343	0.0820	3x10 ⁻⁹			1.4x10 ⁻⁸	0.4134	1.2x10 ⁻⁸	1.8x10 ⁻⁸	0.2491
	CD4.1h.LN					6.8x10 ⁻⁹	9.9x10 ⁻⁹			0.2470		5.5x10 ⁻⁹			1.2x10 ⁻⁸	0.3206	1.7x10 ⁻⁸	1.4x10 ⁻⁸	0.1110
	CD4.24h.LN					2.2x10 ⁻⁸	1.1x10 ⁻⁸			0.0222		3.1x10 ⁻⁸			1.4x10 ⁻⁸	0.0110	6.8x10 ⁻⁹	1.4x10 ⁻⁸	0.3085
	CD4.48h.LN					2.8x10 ⁻⁸	1.1x10 ⁻⁸			0.0048		2.2x10 ⁻⁸			1.3x10 ⁻⁸	0.0431	2.9x10 ⁻⁸	1.3x10 ⁻⁸	0.0141
	CD4.5h.LN					1.6x10 ⁻⁸	1.2x10 ⁻⁸			0.0976		2.9x10 ⁻⁸			1.6x10 ⁻⁸	0.0315	4.7x10 ⁻⁹	1.4x10 ⁻⁸	0.3655
	CD4.96h.LN					7.2x10 ⁻⁹	1x10 ⁻⁸			0.2397		5.8x10 ⁻⁹			1.3x10 ⁻⁸	0.3220	1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1857
	CD4.CTR.LN					1.3x10 ⁻⁸	1x10 ⁻⁸			0.1054		8.4x10 ⁻⁹			1.3x10 ⁻⁸	0.2616	1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0788
	CD4Control					1.5x10 ⁻⁸	1.1x10 ⁻⁸			0.0810		1.5x10 ⁻⁸			1.3x10 ⁻⁸	0.1340	1.9x10 ⁻⁸	1.7x10 ⁻⁸	0.1324
	LN.TR.14w.B6					8.9x10 ⁻⁹	1.2x10 ⁻⁸			0.2259		1.9x10 ⁻⁹			1.4x10 ⁻⁸	0.4464	2.2x10 ⁻⁸	1.9x10 ⁻⁸	0.1231
	T.4.LN.BDC					2.1x10 ⁻⁸	1.3x10 ⁻⁸			0.0558		2.4x10 ⁻⁸			1.5x10 ⁻⁸	0.0619	1.4x10 ⁻⁸	1.4x10 ⁻⁸	0.1565
	T.4.Pa.BDC					1.7x10 ⁻⁸	1.1x10 ⁻⁸			0.0656		7.5x10 ⁻⁹			1.3x10 ⁻⁸	0.2871	3.2x10 ⁻⁸	1.9x10 ⁻⁸	0.0458
	T.4.PLN.BDC					1.8x10 ⁻⁸	1.3x10 ⁻⁸			0.0719		8.4x10 ⁻⁹			1.5x10 ⁻⁸	0.2918	2.2x10 ⁻⁸	1.3x10 ⁻⁸	0.0470
	T.4+8int.Th					1.7x10 ⁻⁸	9.8x10 ⁻⁹			0.0444		2.5x10 ⁻⁹			1.2x10 ⁻⁸	0.4155	2x10 ⁻⁸	1.3x10 ⁻⁸	0.0537
T.4Eff49d+11a+.Sp.d8.LCMV	1x10 ⁻⁸	1.1x10 ⁻⁸	0.1676	1.3x10 ⁻⁸	1.4x10 ⁻⁸	0.1806	1.3x10 ⁻⁸	1.4x10 ⁻⁸	0.1836										
T.4FP3-.Sp	2.4x10 ⁻⁸	1.2x10 ⁻⁸	0.0223	2.4x10 ⁻⁸	1.5x10 ⁻⁸	0.0567	2.5x10 ⁻⁸	1.1x10 ⁻⁸	0.0109										
T.4FP3+25+.Sp	2.2x10 ⁻⁸	1.2x10 ⁻⁸	0.0292	1.8x10 ⁻⁸	1.4x10 ⁻⁸	0.1049	2x10 ⁻⁸	1.2x10 ⁻⁸	0.0523										
T.4int8+.Th	2.6x10 ⁻⁸	1.2x10 ⁻⁸	0.0135	1.3x10 ⁻⁸	1.4x10 ⁻⁸	0.1777	2.5x10 ⁻⁸	1.6x10 ⁻⁸	0.0573										
T.4Mem.LN	3.1x10 ⁻⁸	1.3x10 ⁻⁸	0.0069	3.1x10 ⁻⁸	1.5x10 ⁻⁸	0.0197	2.4x10 ⁻⁸	1.6x10 ⁻⁸	0.0691										
T.4Mem.Sp	7.5x10 ⁻⁹	1.2x10 ⁻⁸	0.2601	2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0612	1.2x10 ⁻⁹	1.6x10 ⁻⁸	0.4691										
T.4Mem44h62l.LN	6.5x10 ⁻⁹	1.2x10 ⁻⁸	0.2878	1.2x10 ⁻⁸	1.4x10 ⁻⁸	0.2005	-2.2x10 ⁻⁹	1.3x10 ⁻⁸	0.5662										
T.4Mem44h62l.Sp	4.2x10 ⁻⁹	1x10 ⁻⁸	0.3405	9.8x10 ⁻⁹	1.3x10 ⁻⁸	0.2258	-5.8x10 ⁻⁹	1.3x10 ⁻⁸	0.6766										
T.4Mem49d+11a+.Sp.d30.LCMV	1.1x10 ⁻⁸	1x10 ⁻⁸	0.1285	1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0803	1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0823										
T.4Nve.LN	1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1461	1.2x10 ⁻⁸	1.5x10 ⁻⁸	0.2148	5.6x10 ⁻⁹	1.3x10 ⁻⁸	0.3306										
T.4Nve.MLN	2.3x10 ⁻⁸	1.2x10 ⁻⁸	0.0276	1.4x10 ⁻⁸	1.4x10 ⁻⁸	0.1606	2.5x10 ⁻⁸	1.2x10 ⁻⁸	0.0196										
T.4Nve.PP	2.2x10 ⁻⁸	9.9x10 ⁻⁹	0.0146	3.4x10 ⁻⁹	1.2x10 ⁻⁸	0.3829	3.2x10 ⁻⁸	1.5x10 ⁻⁸	0.0188										
T.4Nve.Sp	1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.1164	1.4x10 ⁻⁸	1.5x10 ⁻⁸	0.1756	2x10 ⁻⁸	1.8x10 ⁻⁸	0.1298										
T.4Nve44-49d-11a-.Sp	2.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0074	2.7x10 ⁻⁸	1.3x10 ⁻⁸	0.0180	2.5x10 ⁻⁸	1.3x10 ⁻⁸	0.0322										
T.4SP24-.Th	2.4x10 ⁻⁸	1.2x10 ⁻⁸	0.0282	1.5x10 ⁻⁸	1.5x10 ⁻⁸	0.1468	1.7x10 ⁻⁸	1.3x10 ⁻⁸	0.0905										
T.4SP24int.Th	1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.0954	1.9x10 ⁻⁹	1.5x10 ⁻⁸	0.4481	1.5x10 ⁻⁸	1.4x10 ⁻⁸	0.1472										
T.4SP69+.Th	2x10 ⁻⁸	1.2x10 ⁻⁸	0.0523	6x10 ⁻⁹	1.5x10 ⁻⁸	0.3430	2x10 ⁻⁸	1.3x10 ⁻⁸	0.0648										
CD4+/CD8+ T cell	T.DP.Th	0.0097	0.0734	5.4x10 ⁻⁹	9.7x10 ⁻⁹	0.2894	0.2449	2.8x10 ⁻⁹	1.1x10 ⁻⁸	0.4005	-3.1x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5112						
	T.DP69+.Th			3x10 ⁻⁸	1.1x10 ⁻⁸	0.0034		2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0633	1.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0846						
	T.DPbl.Th			2.5x10 ⁻⁸	1x10 ⁻⁸	0.0056		2.5x10 ⁻⁸	1.2x10 ⁻⁸	0.0212	1.8x10 ⁻⁸	1.5x10 ⁻⁸	0.1097						
	T.DPsm.Th			1.9x10 ⁻⁸	1.1x10 ⁻⁸	0.0392		1.4x10 ⁻⁸	1.2x10 ⁻⁸	0.1210	9.7x10 ⁻⁹	1.4x10 ⁻⁸	0.2374						

CD8+ T cell	T.ISP.Th		2.2x10 ⁻⁸	1.1x10 ⁻⁸	0.0227	0.1352	2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0682	0.1251	1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1692			
	CD8.1h.LN	0.0487	2.8x10 ⁻⁸	1.2x10 ⁻⁸	0.0090		1.3x10 ⁻⁸	1.4x10 ⁻⁸	0.1716		0.1251	3.3x10 ⁻⁸	1.4x10 ⁻⁸	0.0081		
	CD8.24h.LN		1.9x10 ⁻⁸	9.9x10 ⁻⁹	0.0261		2.3x10 ⁻⁸	1.3x10 ⁻⁸	0.0382			1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.2063		
	CD8.48h.LN		2.1x10 ⁻⁸	1.1x10 ⁻⁸	0.0239		8.6x10 ⁻⁹	1.2x10 ⁻⁸	0.2363			3.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0143		
	CD8.5h.LN		9.3x10 ⁻⁹	1.1x10 ⁻⁸	0.2021		2.5x10 ⁻⁸	1.5x10 ⁻⁸	0.0425			-3.5x10 ⁻⁹	1.4x10 ⁻⁸	0.6018		
	CD8.96h.LN		1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1443		6.6x10 ⁻⁹	1.3x10 ⁻⁸	0.3067			2x10 ⁻⁸	1.7x10 ⁻⁸	0.1206		
	CD8.CTR.LN		1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.1320		1.1x10 ⁻⁸	1.4x10 ⁻⁸	0.2206			1.6x10 ⁻⁸	1.3x10 ⁻⁸	0.1107		
	T.8Eff.Sp.OT1.12hr.LisOva		1.7x10 ⁻⁸	1.3x10 ⁻⁸	0.0945		2.1x10 ⁻⁸	1.6x10 ⁻⁸	0.1028			7.6x10 ⁻¹¹	1.4x10 ⁻⁸	0.4978		
	T.8Eff.Sp.OT1.24hr.LisOva		1.4x10 ⁻⁸	1.3x10 ⁻⁸	0.1308		1.3x10 ⁻⁸	1.6x10 ⁻⁸	0.2055			5.2x10 ⁻⁹	1.4x10 ⁻⁸	0.3512		
	T.8Eff.Sp.OT1.48hr.LisOva		1x10 ⁻⁸	1.3x10 ⁻⁸	0.2130		1.1x10 ⁻⁸	1.5x10 ⁻⁸	0.2463			4.8x10 ⁻⁹	1.4x10 ⁻⁸	0.3658		
	T.8Eff.Sp.OT1.d10.LisOva		1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0589		2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0609			4x10 ⁻⁹	1.7x10 ⁻⁸	0.4083		
	T.8Eff.Sp.OT1.d15.LisOva		1.7x10 ⁻⁸	1.1x10 ⁻⁸	0.0644		1x10 ⁻⁸	1.4x10 ⁻⁸	0.2314			9.3x10 ⁻⁹	1x10 ⁻⁸	0.1874		
	T.8Eff.Sp.OT1.d15.VSV Ova		1.2x10 ⁻⁸	1.1x10 ⁻⁸	0.1339		1.1x10 ⁻⁸	1.4x10 ⁻⁸	0.2056			1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1495		
	T.8Eff.Sp.OT1.d5.VSV Ova		1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1706		2.2x10 ⁻⁸	1.4x10 ⁻⁸	0.0587			-5.8x10 ⁻⁹	1.2x10 ⁻⁸	0.6801		
	T.8Eff.Sp.OT1.d6.LisOva		2.4x10 ⁻⁸	1.3x10 ⁻⁸	0.0304		2.4x10 ⁻⁸	1.5x10 ⁻⁸	0.0594			9.6x10 ⁻⁹	1.6x10 ⁻⁸	0.2733		
	T.8Eff.Sp.OT1.d6.VSV Ova		1.6x10 ⁻⁸	1.1x10 ⁻⁸	0.0723		2x10 ⁻⁸	1.3x10 ⁻⁸	0.0601			1.6x10 ⁻⁸	1.6x10 ⁻⁸	0.1630		
	T.8Eff.Sp.OT1.d8.LisOva		1.8x10 ⁻⁸	1.1x10 ⁻⁸	0.0572		2x10 ⁻⁸	1.2x10 ⁻⁸	0.0498			5.1x10 ⁻¹⁰	1.5x10 ⁻⁸	0.4864		
	T.8Eff.Sp.OT1.d8.VSV Ova		8.1x10 ⁻⁹	1.1x10 ⁻⁸	0.2324		1.4x10 ⁻⁸	1.3x10 ⁻⁸	0.1470			-2.6x10 ⁻¹⁰	1.6x10 ⁻⁸	0.5064		
	T.8Eff.Tbet-Sp.OT1.d6LisOVA		3.7x10 ⁻⁸	1.4x10 ⁻⁸	0.0046		4.1x10 ⁻⁸	1.7x10 ⁻⁸	0.0094			3.3x10 ⁻⁸	1.8x10 ⁻⁸	0.0330		
	T.8Eff.Tbet+Sp.OT1.d6LisOVA		2.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0139		1.8x10 ⁻⁸	1.5x10 ⁻⁸	0.1132			4.1x10 ⁻⁸	2.1x10 ⁻⁸	0.0244		
	T.8EffKLRG1+CD127-Sp.d8.LisOVA		2.3x10 ⁻⁹	9.2x10 ⁻⁹	0.3997		6.5x10 ⁻⁹	1x10 ⁻⁸	0.2625			3x10 ⁻¹⁰	1.1x10 ⁻⁸	0.4892		
	T.8Mem.LN		2.3x10 ⁻⁸	1.1x10 ⁻⁸	0.0222		1.9x10 ⁻⁸	1.4x10 ⁻⁸	0.0809			2.7x10 ⁻⁸	1.4x10 ⁻⁸	0.0293		
	T.8Mem.Sp		1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0587		1.5x10 ⁻⁸	1.4x10 ⁻⁸	0.1449			1.1x10 ⁻⁸	1.5x10 ⁻⁸	0.2255		
	T.8Mem.Sp.OT1.d100.LisOva		2.4x10 ⁻⁸	1.2x10 ⁻⁸	0.0220		2.3x10 ⁻⁸	1.4x10 ⁻⁸	0.0453			3x10 ⁻⁸	1.8x10 ⁻⁸	0.0423		
	T.8Mem.Sp.OT1.d106.VSV Ova		2.7x10 ⁻⁸	1.2x10 ⁻⁸	0.0139		2.5x10 ⁻⁸	1.4x10 ⁻⁸	0.0382			2.1x10 ⁻⁸	1.5x10 ⁻⁸	0.0870		
	T.8Mem.Sp.OT1.d45.LisOva		2.2x10 ⁻⁸	1.3x10 ⁻⁸	0.0438		2.8x10 ⁻⁸	1.6x10 ⁻⁸	0.0381			5.6x10 ⁻⁹	1.2x10 ⁻⁸	0.3197		
	T.8Mem.Sp.OT1.d45.VSV Ova		1.4x10 ⁻⁸	1.2x10 ⁻⁸	0.1263		2x10 ⁻⁸	1.5x10 ⁻⁸	0.1015			1.8x10 ⁻⁹	1.3x10 ⁻⁸	0.4455		
	T.8MemKLRG1-CD127+Sp.d8.LisOVA		2x10 ⁻⁹	9.2x10 ⁻⁹	0.4143		2.4x10 ⁻⁹	1.1x10 ⁻⁸	0.4144			8.7x10 ⁻⁹	1.1x10 ⁻⁸	0.2191		
	T.8Nve.LN		1.3x10 ⁻⁸	1.2x10 ⁻⁸	0.1389		5.3x10 ⁻⁹	1.5x10 ⁻⁸	0.3597			6.2x10 ⁻⁹	1.3x10 ⁻⁸	0.3097		
	T.8Nve.MLN		2.2x10 ⁻⁸	1.2x10 ⁻⁸	0.0339		1.5x10 ⁻⁸	1.5x10 ⁻⁸	0.1655			2x10 ⁻⁸	1.3x10 ⁻⁸	0.0656		
	T.8Nve.PP		1.9x10 ⁻⁸	1x10 ⁻⁸	0.0361		8.2x10 ⁻⁹	1.3x10 ⁻⁸	0.2622			1.7x10 ⁻⁸	1.1x10 ⁻⁸	0.0549		
	T.8Nve.Sp		5.1x10 ⁻⁹	1.1x10 ⁻⁸	0.3156		5.4x10 ⁻⁹	1.2x10 ⁻⁸	0.3287			1.1x10 ⁻⁹	1x10 ⁻⁸	0.4563		
	T.8Nve.Sp.OT1		1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1560		5.5x10 ⁻⁹	1.5x10 ⁻⁸	0.3597			1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1760		
	T.8SP24-.Th		9x10 ⁻⁹	1.1x10 ⁻⁸	0.2084		6.8x10 ⁻⁹	1.4x10 ⁻⁸	0.3188			6.2x10 ⁻¹⁰	1.2x10 ⁻⁸	0.4787		
	T.8SP24int.Th		1.3x10 ⁻⁸	1.1x10 ⁻⁸	0.1180		8.4x10 ⁻⁹	1.4x10 ⁻⁸	0.2721			9.7x10 ⁻⁹	1.1x10 ⁻⁸	0.1875		
	T.8SP69+.Th		1.1x10 ⁻⁸	1.2x10 ⁻⁸	0.1724		8.3x10 ⁻⁹	1.4x10 ⁻⁸	0.2730			7.2x10 ⁻⁹	1.2x10 ⁻⁸	0.2771		
	γδT cell	Tgd.Sp	0.0396	7.2x10 ⁻⁹	1.1x10 ⁻⁸		0.2625	0.0399	3.6x10 ⁻⁹		1.4x10 ⁻⁸	0.3967	0.0982	3x10 ⁻⁹	1.2x10 ⁻⁸	0.4037
		Tgd.Th		3.8x10 ⁻⁹	1.1x10 ⁻⁸		0.3685		3.2x10 ⁻⁹		1.4x10 ⁻⁸	0.4090		6.9x10 ⁻¹⁰	1.3x10 ⁻⁸	0.4794
		Tgd.vg1+vd6-24ahi.Th		-7.8x10 ⁻¹⁰	9.4x10 ⁻⁹		0.5330		-9.1x10 ⁻⁹		1.1x10 ⁻⁸	0.8059		7.5x10 ⁻⁹	1.3x10 ⁻⁸	0.2770
		Tgd.vg1+vd6-24alo.Th		1.5x10 ⁻⁸	1x10 ⁻⁸		0.0780		1x10 ⁻⁸		1.3x10 ⁻⁸	0.2057		2.3x10 ⁻⁸	1.1x10 ⁻⁸	0.0193
		Tgd.vg1+vd6+24ahi.Th		4x10 ⁻⁹	1.1x10 ⁻⁸		0.3535		-1x10 ⁻⁹		1.2x10 ⁻⁸	0.5334		6.3x10 ⁻⁹	1.3x10 ⁻⁸	0.3132
		Tgd.vg1+vd6+24alo.Th		-1.8x10 ⁻⁹	1x10 ⁻⁸		0.5718		-6.1x10 ⁻⁹		1.2x10 ⁻⁸	0.7004		-5x10 ⁻⁹	1.3x10 ⁻⁸	0.6516
		Tgd.vg2-.act.Sp		2.1x10 ⁻⁸	1.2x10 ⁻⁸		0.0398		1.8x10 ⁻⁸		1.4x10 ⁻⁸	0.1028		9.3x10 ⁻⁹	1.1x10 ⁻⁸	0.1953
		Tgd.vg2-.Sp		7.4x10 ⁻¹⁰	1.2x10 ⁻⁸		0.4754		9.2x10 ⁻¹⁰		1.5x10 ⁻⁸	0.4748		1x10 ⁻⁸	1.6x10 ⁻⁸	0.2595
		Tgd.vg2-.Sp.TCRbko		1.8x10 ⁻⁸	1.2x10 ⁻⁸		0.0742		2.7x10 ⁻⁸		1.5x10 ⁻⁸	0.0361		8.3x10 ⁻⁹	1.1x10 ⁻⁸	0.2321

		Tgd.vg2+.act.Sp			2.1x10 ⁻⁸	1.2x10 ⁻⁸	0.0396			2.1x10 ⁻⁸	1.4x10 ⁻⁸	0.0626			1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1056
		Tgd.vg2+.Sp			-1.4x10 ⁻⁹	1.2x10 ⁻⁸	0.5491			-2.3x10 ⁻⁹	1.4x10 ⁻⁸	0.5652			-5.7x10 ⁻¹⁰	1.4x10 ⁻⁸	0.5166
		Tgd.vg2+.Sp.TCRbko			9.3x10 ⁻⁹	1x10 ⁻⁸	0.1777			1.7x10 ⁻⁹	1.1x10 ⁻⁸	0.0722			-3x10 ⁻¹⁰	1x10 ⁻⁸	0.5114
		Tgd.vg2+24ahi.e17.Th			8.4x10 ⁻⁹	1.1x10 ⁻⁸	0.2153			9.8x10 ⁻⁹	1.3x10 ⁻⁸	0.2160			7.2x10 ⁻⁹	1.3x10 ⁻⁸	0.2833
		Tgd.vg2+24ahi.Th			2.4x10 ⁻⁸	1.2x10 ⁻⁸	0.0206			1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1272			3.5x10 ⁻⁸	1.4x10 ⁻⁸	0.0079
		Tgd.vg2+24alo.Th			1.1x10 ⁻⁸	1.1x10 ⁻⁸	0.1438			1.5x10 ⁻⁸	1.2x10 ⁻⁸	0.1118			-1.3x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5045
		Tgd.vg3+24ahi.e17.Th			1.9x10 ⁻⁸	1.2x10 ⁻⁸	0.0465			1.6x10 ⁻⁸	1.4x10 ⁻⁸	0.1352			1.5x10 ⁻⁸	1.3x10 ⁻⁸	0.1218
		Tgd.vg3+24alo.e17.Th			2.3x10 ⁻⁸	1.1x10 ⁻⁸	0.0225			2x10 ⁻⁸	1.3x10 ⁻⁸	0.0637			3.2x10 ⁻⁸	1.3x10 ⁻⁸	0.0080
		Tgd.vg4+24ahi.e17.Th			1.8x10 ⁻⁸	1.2x10 ⁻⁸	0.0643			2.3x10 ⁻⁸	1.6x10 ⁻⁸	0.0727			-1.3x10 ⁻⁹	1.2x10 ⁻⁸	0.5417
		Tgd.vg4+24alo.e17.Th			2.8x10 ⁻⁸	9.8x10 ⁻⁹	0.0020			3.8x10 ⁻⁸	1.3x10 ⁻⁸	0.0017			1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1587
		Tgd.vg5-.act.IEL			-2.9x10 ⁻⁹	9.9x10 ⁻⁹	0.6131			2.3x10 ⁻⁹	1.2x10 ⁻⁸	0.4248			-1x10 ⁻⁸	1.1x10 ⁻⁸	0.8249
		Tgd.vg5-.IEL			-5.5x10 ⁻⁹	8.8x10 ⁻⁹	0.7335			-3.6x10 ⁻¹⁰	1.2x10 ⁻⁸	0.5126			-1.6x10 ⁻⁸	9.3x10 ⁻⁹	0.9557
		Tgd.vg5+.act.IEL			-1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.9094			⁻⁹ .1x10 ⁻⁹	1.4x10 ⁻⁸	0.7482			-2.6x10 ⁻⁸	1.2x10 ⁻⁸	0.9874
		Tgd.vg5+.IEL			1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.0989			2.2x10 ⁻⁸	1.3x10 ⁻⁸	0.0418			-3.1x10 ⁻¹⁰	1.1x10 ⁻⁸	0.5115
		Tgd.vg5+24ahi.Th			3.5x10 ⁻⁹	1.1x10 ⁻⁸	0.3704			8.1x10 ⁻⁹	1.2x10 ⁻⁸	0.2478			-4x10 ⁻⁹	1.2x10 ⁻⁸	0.6299
	Prx10-T cell	preT.DN2-3.Th	0.2207		9.6x10 ⁻⁹	1.2x10 ⁻⁸	0.2148	0.1837		8.4x10 ⁻⁹	1.6x10 ⁻⁸	0.2953	0.2865		1.1x10 ⁻⁸	1.3x10 ⁻⁸	0.1862
		preT.DN2.Th			-8.1x10 ⁻¹⁰	1.3x10 ⁻⁸	0.5252			8.8x10 ⁻⁹	1.6x10 ⁻⁸	0.2929			-4.3x10 ⁻⁹	1.4x10 ⁻⁸	0.6206
		preT.DN2A.Th			-2x10 ⁻⁹	1.3x10 ⁻⁸	0.5619			4.9x10 ⁻¹⁰	1.6x10 ⁻⁸	0.4874			-1.2x10 ⁻⁹	1.6x10 ⁻⁸	0.5305
		preT.DN2B.Th			-1.4x10 ⁻⁹	1.1x10 ⁻⁸	0.5479			-7.7x10 ⁻⁹	1.5x10 ⁻⁸	0.6947			4x10 ⁻⁹	1.3x10 ⁻⁸	0.3770
		preT.DN3-4.Th			6.7x10 ⁻⁹	1.2x10 ⁻⁸	0.2909			8.6x10 ⁻¹⁰	1.5x10 ⁻⁸	0.4765			1.2x10 ⁻⁸	1.3x10 ⁻⁸	0.1894
		preT.DN3A.Th			1.6x10 ⁻⁸	1.2x10 ⁻⁸	0.0837			2.1x10 ⁻⁸	1.5x10 ⁻⁸	0.0806			1.2x10 ⁻⁸	1.3x10 ⁻⁸	0.1814
		preT.DN3B.Th			2.2x10 ⁻⁸	1.2x10 ⁻⁸	0.0305			2.9x10 ⁻⁸	1.4x10 ⁻⁸	0.0211			2.3x10 ⁻⁸	1.4x10 ⁻⁸	0.0493
		preT.ETP-2A.Th			3.2x10 ⁻⁹	1x10 ⁻⁸	0.3777			1.2x10 ⁻⁹	1.2x10 ⁻⁸	0.4624			9.7x10 ⁻⁹	1.2x10 ⁻⁸	0.2117
		preT.ETP.Th			1.4x10 ⁻⁸	1.1x10 ⁻⁸	0.1098			1.2x10 ⁻⁸	1.2x10 ⁻⁸	0.1604			1.7x10 ⁻⁸	1.3x10 ⁻⁸	0.0998

-- Unable to be evaluated due to small sample size or low trait heritability.

Supplementary Table 6. Genetic correlations, 95% confidence intervals and p values for association between glioma, autoimmune diseases, atopic traits, and complete blood count (CBC) values, bold indicates p<0.05

Trait	All Glioma				GB				Non-GB			
	r _g (95% CI)	P	P _{corrected} ^a	GC intercept (SE)	r _g (95% CI)	P	P _{corrected}	GC intercept (SE)	r _g (95% CI)	P	P _{corrected}	GC intercept (SE)
Auto-immune diseases												
Celiac disease	-0.14 (-0.36-0.08)	0.2046	0.6462	0.03 (0.03)	-0.03 (-0.34-0.28)	0.8617	1.0000	0.02 (0.02)	-0.32 (-0.57--0.07)	0.0109	0.2339	0.03 (0.03)
Crohn's disease	-0.12 (-0.41-0.17)	0.4210	0.8256	0.00 (0.00)	-0.15 (-0.55-0.25)	0.4654	1.0000	0.01 (0.01)	-0.05 (-0.40-0.30)	0.7797	1.0000	-0.01 (-0.01)
Lupus	-0.13 (-0.32-0.06)	0.1899	0.6462	0.02 (0.02)	-0.18 (-0.44-0.08)	0.1789	0.8782	0.02 (0.02)	-0.08 (-0.31-0.14)	0.4754	0.9757	0.01 (0.01)
Multiple sclerosis	-0.29 (-0.67-0.09)	0.1361	0.6462	0.07 (0.07)	-0.33 (-0.85-0.19)	0.2198	0.8782	0.05 (0.05)	-0.35 (-0.78-0.09)	0.1156	0.6901	0.06 (0.06)
Primary biliary cirrhosis	-0.26 (-0.48--0.04)	0.0228	0.6371	0.08 (0.08)	-0.29 (-0.56--0.02)	0.0344	0.8782	0.06 (0.06)	-0.19 (-0.42-0.04)	0.1009	0.6901	0.06 (0.06)
Psoriasis	-0.25 (-0.59-0.09)	0.1476	0.6462	0.01 (0.01)	-0.31 (-0.70-0.08)	0.1161	0.8782	0.01 (0.01)	-0.24 (-0.67-0.19)	0.2728	0.8097	0.01 (0.01)
Rheumatoid arthritis	-0.24 (-0.60-0.13)	0.1998	0.6462	0.01 (0.01)	-0.23 (-0.66-0.21)	0.3112	0.8782	0.01 (0.01)	-0.15 (-0.58-0.28)	0.4992	0.9757	0.00 (0.00)
Type 1 diabetes	-0.03 (-0.40-0.35)	0.8913	0.9982	-0.00 (-0.00)	-0.10 (-0.57-0.38)	0.6881	1.0000	0.00 (0.00)	-0.01 (-0.44-0.43)	0.9816	1.0000	-0.00 (-0.00)
Ulcerative colitis	-0.03 (-0.17-0.10)	0.6122	0.8855	0.02 (0.02)	-0.02 (-0.21-0.17)	0.8418	1.0000	0.01 (0.01)	-0.01 (-0.17-0.14)	0.8739	1.0000	0.02 (0.02)
Atopic diseases												
Asthma	-0.24 (-0.59-0.12)	0.1953	0.6462	0.00 (0.00)	-0.23 (-0.67-0.21)	0.3017	0.8782	0.00 (0.00)	-0.13 (-0.52-0.25)	0.4954	0.9757	-0.00 (-0.00)
Eczema	-0.16 (-0.39-0.07)	0.1656	0.6462	0.00 (0.00)	-0.22 (-0.53-0.08)	0.1535	0.8782	0.00 (0.00)	-0.14 (-0.40-0.11)	0.2685	0.8097	0.00 (0.00)
Hayfever	0.01 (-0.14-0.16)	0.8860	0.9982	-0.01 (-0.01)	-0.09 (-0.28-0.09)	0.3229	0.8782	0.00 (0.00)	0.07 (-0.12-0.26)	0.4840	0.9757	-0.00 (-0.00)
Blood count traits												
Basophil count	0.01 (-0.14-0.16)	0.8771	0.9982	0.00 (0.00)	-0.04 (-0.23-0.15)	0.6786	1.0000	0.00 (0.00)	0.01 (-0.16-0.18)	0.9100	1.0000	0.01 (0.01)
Basophil percentage	-0.05 (-0.18-0.07)	0.3832	0.8239	0.00 (0.00)	-0.13 (-0.28-0.02)	0.0978	0.8782	0.00 (0.00)	-0.00 (-0.14-0.14)	0.9744	1.0000	-0.00 (-0.00)
Eosinophil count	0.01 (-0.08-0.10)	0.9060	0.9982	-0.00 (-0.00)	0.01 (-0.09-0.10)	0.9176	1.0000	-0.01 (-0.01)	0.00 (-0.11-0.11)	0.9438	1.0000	-0.00 (-0.00)
Eosinophil percentage	0.02 (-0.07-0.11)	0.6137	0.8855	-0.00 (-0.00)	0.03 (-0.07-0.13)	0.5791	1.0000	-0.01 (-0.01)	0.01 (-0.10-0.11)	0.8738	1.0000	0.00 (0.00)
Haematocrit percentage	0.03 (-0.07-0.14)	0.5207	0.8844	0.01 (0.01)	0.06 (-0.07-0.19)	0.3472	0.8782	0.00 (0.00)	-0.00 (-0.11-0.11)	0.9751	1.0000	0.00 (0.00)
Haemoglobin concentration	0.05 (-0.05-0.14)	0.3696	0.8239	0.00 (0.00)	0.06 (-0.06-0.18)	0.3092	0.8782	0.00 (0.00)	0.02 (-0.09-0.13)	0.6921	1.0000	0.00 (0.00)
High light scatter reticulocyte count	-0.02 (-0.12-0.07)	0.6235	0.8855	-0.00 (-0.00)	-0.00 (-0.13-0.12)	0.9687	1.0000	-0.01 (-0.01)	-0.03 (-0.14-0.08)	0.6074	1.0000	-0.00 (-0.00)
High light scatter reticulocyte percentage	-0.03 (-0.13-0.07)	0.5387	0.8844	-0.00 (-0.00)	-0.01 (-0.14-0.11)	0.8230	1.0000	-0.00 (-0.00)	-0.03 (-0.13-0.08)	0.6350	1.0000	-0.00 (-0.00)
Immature reticulocyte fraction	-0.07 (-0.17-0.03)	0.1656	0.6462	0.00 (0.00)	-0.04 (-0.16-0.09)	0.5787	1.0000	-0.00 (-0.00)	-0.08 (-0.20-0.03)	0.1676	0.7349	0.00 (0.00)
Lymphocyte count	-0.05 (-0.14-0.03)	0.2261	0.6482	0.00 (0.00)	-0.05 (-0.15-0.06)	0.3766	0.8997	-0.00 (-0.00)	-0.08 (-0.18-0.02)	0.1133	0.6901	0.00 (0.00)
Lymphocyte percentage	-0.10 (-0.20--0.00)	0.0445	0.6371	0.01 (0.01)	-0.09 (-0.22-0.03)	0.1546	0.8782	0.01 (0.01)	-0.11 (-0.22--0.01)	0.0312	0.4478	0.01 (0.01)
Mean corpuscular haemoglobin	0.01 (-0.08-0.10)	0.8624	0.9982	0.01 (0.01)	-0.02 (-0.14-0.11)	0.7952	1.0000	0.02 (0.02)	0.03 (-0.06-0.13)	0.4877	0.9757	0.01 (0.01)
Mean corpuscular haemoglobin concentration	0.04 (-0.08-0.16)	0.5514	0.8844	-0.00 (-0.00)	-0.02 (-0.17-0.14)	0.8317	1.0000	0.00 (0.00)	0.09 (-0.04-0.23)	0.1709	0.7349	-0.01 (-0.01)
Mean corpuscular volume	-0.00 (-0.10-0.09)	0.9286	0.9982	0.02 (0.02)	-0.03 (-0.15-0.10)	0.6645	1.0000	0.02 (0.02)	0.02 (-0.08-0.12)	0.6895	1.0000	0.01 (0.01)
Mean platelet (thrombocyte) volume	-0.09 (-0.18--0.01)	0.0337	0.6371	0.01 (0.01)	-0.06 (-0.18-0.05)	0.2863	0.8782	0.00 (0.00)	-0.12 (-0.20--0.03)	0.0096	0.2339	0.01 (0.01)
Mean reticulocyte volume	-0.00 (-0.10-0.09)	0.9258	0.9982	0.01 (0.01)	0.01 (-0.11-0.13)	0.8784	1.0000	0.01 (0.01)	-0.02 (-0.12-0.09)	0.7625	1.0000	0.01 (0.01)
Mean spheroid cell volume	-0.04 (-0.13-0.05)	0.3754	0.8239	0.02 (0.02)	-0.03 (-0.15-0.09)	0.6304	1.0000	0.01 (0.01)	-0.05 (-0.14-0.04)	0.2898	0.8097	0.01 (0.01)
Monocyte count	0.08 (-0.01-0.18)	0.0949	0.6462	-0.01 (-0.01)	0.08 (-0.03-0.19)	0.1525	0.8782	-0.01 (-0.01)	0.06 (-0.05-0.16)	0.3013	0.8097	-0.01 (-0.01)
Monocyte percentage	0.08 (-0.02-0.18)	0.1144	0.6462	-0.01 (-0.01)	0.07 (-0.04-0.18)	0.2111	0.8782	-0.00 (-0.00)	0.07 (-0.04-0.18)	0.2245	0.8097	-0.01 (-0.01)
Neutrophil count	0.04 (-0.06-0.15)	0.4224	0.8256	-0.01 (-0.01)	0.05 (-0.08-0.18)	0.4454	1.0000	-0.01 (-0.01)	0.02 (-0.09-0.14)	0.6724	1.0000	-0.01 (-0.01)
Neutrophil percentage	0.07 (-0.04-0.17)	0.2104	0.6462	-0.01 (-0.01)	0.06 (-0.07-0.20)	0.3458	0.8782	-0.00 (-0.00)	0.08 (-0.02-0.19)	0.1284	0.6901	-0.01 (-0.01)

Platelet count	0.05 (-0.04-0.14)	0.3043	0.8178	-0.02 (-0.02)	0.04 (-0.09-0.16)	0.5404	1.0000	-0.01 (-0.01)	0.04 (-0.05-0.14)	0.3711	0.9387	-0.02 (-0.02)
Platelet crit	-0.01 (-0.10-0.08)	0.8489	0.9982	-0.02 (-0.02)	-0.01 (-0.13-0.11)	0.8762	1.0000	-0.01 (-0.01)	-0.02 (-0.12-0.08)	0.7119	1.0000	-0.02 (-0.02)
Platelet distribution width	-0.03 (-0.15-0.08)	0.5553	0.8844	-0.00 (-0.00)	0.00 (-0.13-0.14)	0.9548	1.0000	-0.01 (-0.01)	-0.07 (-0.19-0.05)	0.2288	0.8097	0.01 (0.01)
Red blood cell (erythrocyte) count	0.03 (-0.06-0.12)	0.5040	0.8844	-0.01 (-0.01)	0.06 (-0.05-0.18)	0.3025	0.8782	-0.01 (-0.01)	-0.01 (-0.10-0.09)	0.8773	1.0000	-0.00 (-0.00)
Red blood cell (erythrocyte) distribution width	-0.04 (-0.12-0.04)	0.3376	0.8239	0.00 (0.00)	0.01 (-0.10-0.12)	0.8185	1.0000	-0.01 (-0.01)	-0.09 (-0.19-0.01)	0.0807	0.6901	0.01 (0.01)
Reticulocyte count	-0.00 (-0.10-0.10)	0.9717	1.0000	-0.00 (-0.00)	0.01 (-0.12-0.13)	0.9248	1.0000	-0.00 (-0.00)	0.00 (-0.11-0.11)	0.9780	1.0000	-0.00 (-0.00)
Reticulocyte percentage	-0.01 (-0.11-0.09)	0.8558	0.9982	-0.00 (-0.00)	-0.01 (-0.13-0.12)	0.8988	1.0000	-0.00 (-0.00)	0.00 (-0.10-0.11)	0.9442	1.0000	-0.00 (-0.00)
White blood cell (leukocyte) count	0.02 (-0.07-0.11)	0.6384	0.8855	-0.01 (-0.01)	0.03 (-0.09-0.14)	0.6484	1.0000	-0.01 (-0.01)	-0.00 (-0.11-0.10)	0.9679	1.0000	-0.00 (-0.00)

-- Unable to be evaluated due to small sample size or low trait heritability.

^a Adjusted for 33 tests

Supplementary Table 7. Genetic correlations, 95% confidence intervals and p values for association between glioma, autoimmune diseases, atopic traits, based on LD score reference panel that includes HLA region, bold indicates p<0.05

Trait	All Glioma				GB				Non-GB			
	r _g (95% CI)	P	P _{corrected} ^a	GC intercept (SE)	r _g (95% CI)	P	P _{corrected}	GC intercept (SE)	r _g (95% CI)	P	P _{corrected}	GC intercept (SE)
Auto-immune diseases												
Celiac disease	-0.14 (-0.36-0.08)	0.2046	0.4207	0.03 (0.03)	-0.03 (-0.34-0.28)	0.8617	0.9664	0.02 (0.02)	-0.32 (-0.57--0.07)	0.0109	0.1306	0.03 (0.03)
Crohn's disease	-0.17 (-0.47-0.14)	0.2829	0.4207	0.00 (0.00)	-0.18 (-0.57-0.22)	0.3757	0.5192	0.01 (0.01)	-0.12 (-0.47-0.23)	0.5057	0.7812	-0.00 (-0.00)
Lupus	-0.22 (-0.42--0.02)	0.0309	0.3680	0.03 (0.03)	-0.22 (-0.46-0.03)	0.0826	0.4658	0.02 (0.02)	-0.23 (-0.58-0.13)	0.2156	0.7812	0.02 (0.02)
Multiple sclerosis	-0.24 (-0.51-0.04)	0.0992	0.3968	0.07 (0.07)	-0.27 (-0.65-0.12)	0.1741	0.4658	0.05 (0.05)	-0.29 (-0.59-0.02)	0.0637	0.3820	0.06 (0.06)
Primary biliary cirrhosis	-0.20 (-0.40-0.01)	0.0613	0.3680	0.08 (0.08)	-0.24 (-0.49-0.00)	0.0523	0.4658	0.06 (0.06)	-0.11 (-0.38-0.15)	0.4138	0.7812	0.05 (0.05)
Psoriasis	-0.20 (-0.52-0.13)	0.2361	0.4207	0.01 (0.01)	-0.28 (-0.67-0.10)	0.1513	0.4658	0.01 (0.01)	-0.16 (-0.55-0.23)	0.4242	0.7812	0.01 (0.01)
Rheumatoid arthritis	-0.17 (-0.49-0.15)	0.3041	0.4207	0.01 (0.01)	-0.17 (-0.57-0.22)	0.3894	0.5192	0.01 (0.01)	-0.08 (-0.46-0.31)	0.6981	0.7884	0.00 (0.00)
Type 1 diabetes	0.10 (-0.24-0.44)	0.5656	0.6443	-0.00 (-0.00)	0.01 (-0.43-0.45)	0.9664	0.9664	-0.00 (-0.00)	0.15 (-0.31-0.61)	0.5208	0.7812	-0.00 (-0.00)
Ulcerative colitis	-0.04 (-0.16-0.09)	0.5906	0.6443	0.02 (0.02)	-0.01 (-0.20-0.17)	0.9046	0.9664	0.01 (0.01)	-0.02 (-0.18-0.13)	0.7739	0.7884	0.02 (0.02)
Atopic diseases												
Asthma	-0.18 (-0.52-0.17)	0.3155	0.4207	0.00 (0.00)	-0.21 (-0.63-0.22)	0.3418	0.5192	0.00 (0.00)	-0.05 (-0.44-0.33)	0.7884	0.7884	-0.00 (-0.00)
Eczema	-0.13 (-0.35-0.10)	0.2641	0.4207	0.00 (0.00)	-0.20 (-0.50-0.10)	0.1941	0.4658	0.00 (0.00)	-0.10 (-0.37-0.17)	0.4815	0.7812	0.00 (0.00)
Hayfever	-0.01 (-0.15-0.14)	0.9303	0.9303	-0.00 (-0.00)	-0.10 (-0.29-0.09)	0.2914	0.5192	0.00 (0.00)	0.04 (-0.14-0.22)	0.6757	0.7884	-0.00 (-0.00)

-- Unable to be evaluated due to small sample size or low trait heritability.

^a Adjusted for 12 tests

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