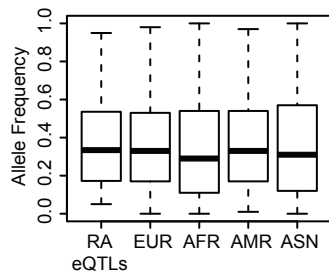
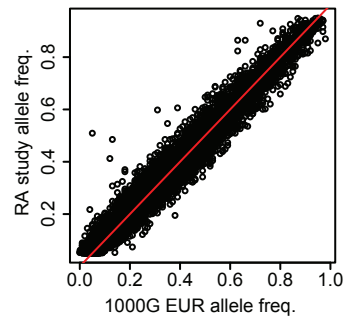


Figure S9

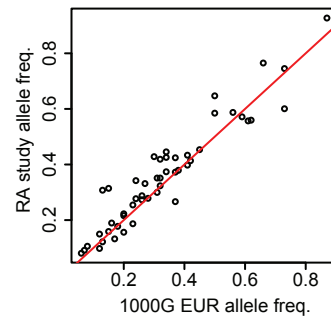
A



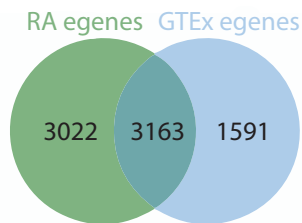
B



C



D



E

NCBI GEO ID	$-\log_{10}(p\text{-value})$ of enrichment in increased genes			$-\log_{10}(p\text{-value})$ of enrichment in decreased genes		
	RA only	RA and GTEx	GTEx only	RA only	RA and GTEx	GTEx only
GSE1919	3.1	10.9	0.2	1.4	0.0	0.0
GSE48780	9.5	34.1	1.9	9.7	0.5	0.2
GSE55235	9.2	38.6	2.7	9.1	0.9	0.2

F

Name	RA only	RA and GTEx	GTEx only
B lymphocyte (pre-B) of bone marrow	1.1E-70	4.6E-72	0.20
Macrophage of pulmonary alveolus	8.0E-54	1.6E-69	0.05
Myelocyte of bone marrow	1.7E-50	1.9E-69	0.05
B lymphocyte (immature) of bone marrow	4.1E-59	3.4E-46	0.12
T lymphocyte (CD8+, CD3+) of peripheral blood	2.4E-64	2.0E-41	0.75
T Lymphocyte (regulatory) of peripheral blood	3.1E-59	2.9E-46	0.87
Pro-myelocyte of bone marrow	1.3E-46	2.9E-58	0.46
T lymphocyte (effector) of peripheral blood	7.5E-71	3.1E-35	1.00
Mononuclear cell of peripheral blood	5.3E-49	4.1E-50	1.00
Dendritic cell (immature) of peripheral blood	7.7E-44	4.4E-51	0.37
T Lymphocyte (CD3+) of tonsil	5.4E-62	2.7E-34	1.00
Neutrophil of bone marrow	2.9E-35	8.7E-54	0.71
Leukocyte (polymorphonuclear) of periph. blood	7.5E-40	1.2E-50	1.00
Adipocyte of omentum	1.1E-50	3.4E-31	1.00
Schwann cell of sural nerve	4.4E-30	5.3E-25	0.09
Endothelial cell of lymphatic vessel	1.00	1.00	3.9E-03
T Lymphocyte (CD4+) of tonsil	1.00	1.00	4.4E-03
Hepatocyte	1.00	1.00	4.8E-03
B lymphocyte (naive) of peripheral blood	1.00	1.00	0.02
T Lymphocyte (CD8+) of tonsil	1.00	1.00	0.07
Natural killer cell of tonsil	1.00	1.00	0.10
T Lymphocyte (regulatory) of tonsil	1.00	1.00	0.10