

Supplementary Table S8: characteristics of the included GWAS databases

AbbreviationTotal N		YFS and FINRISK 1997 and 2002	scallop CVD 1	decode
source download link		https://data.bris.ac.uk/data/dataset/3g3i5smgghp0s2uvm1doflkx9x	https://zenodo.org/record/2615265#_ynot_a_comment=1	https://download.decode.is/form/folder/protocols
Mean Age (SD), years	-	49 (8)	n/a	55 (18)
Sex, % female	-	51	n/a	57
sample size	-	8293	30931	35559
mean sample sizes for individual cytokines		-	-	-
Beta nerve growth factor	bNGF	70021	3531	35559
Cutaneous T-cell attracting (CCL27)	CCL27/CTACK	39190	3631	35559
Eotaxin (CCL11)	CCL11/eotaxin-1	43712	8153	35559
Basic fibroblast growth factor	FGF-b	43124	7565	35559
Granulocyte colony-stimulating factor	G-CSF/CSF-3	43463	7904	35559
Growth regulated oncogene-α (CXCL1)	CXCL1/GROα	69995	3505	35559
Hepatocyte growth factor	HGF	74782	8292	35559
Interferon-gamma	IFNγ	43260	7701	35559
Interleukin-10	IL-10	43240	7681	35559
Interleukin-13	IL-13	39116	3557	35559
Interleukin-16	IL-16	69973	3483	35559
Interleukin-17	IL-17	43319	7760	35559
Interleukin-18	IL-18	70126	3636	35559
Interleukin-1-beta	IL-1b	38868	3309	35559
Interleukin-1 receptor antagonist	IL-1ra	70128	3638	35559
Interleukin-2	IL-2	39034	3475	35559
Interleukin-2 receptor, alpha subunit	IL-2ra	39236	3677	35559
Interleukin-4	IL-4	43683	8124	35559
Interleukin-5	IL-5	38923	3364	35559
Interleukin-6	IL-6	74679	8189	35559
Interleukin-7	IL-7	38968	3409	35559
Interleukin-8 (CXCL8)	CXCL8/IL-8	70016	3526	35559
Interleukin-9	IL-9	39193	3634	35559
Interferon gamma-induced protein 10 (CXCL10)	CXCL10/IP-10	39244	3685	35559
Monocyte chemotactic protein-1 (CCL2)	CCL2/MCP-1	74783	8293	35559
Monocyte specific chemokine 3 (CCL7)	CCL7/MCP-3	36402	843	35559
Macrophage colony-stimulating factor	M-CSF/CSF-1	67330	840	35559
Macrophage migration inhibitory factor (glycosylation-inhibiting factor)	MIF	39053	3494	35559
Monokine induced by interferon-gamma (CXCL9)	CXCL9/MIG	39244	3685	35559
Macrophage inflammatory protein-1α (CCL3)	CCL3/MIP-1a	70012	3522	35559
Macrophage inflammatory protein-1β (CCL4)	CCL4/MIP-1b	39174	8243	n/a
Platelet derived growth factor BB	PDGFbb	74783	8293	35559
Regulated on Activation, Normal T Cell Expressed and Secreted	RANTES	38980	3421	35559
Stem cell factor	SCF	74780	8290	35559
Stem cell growth factor beta	SCGF-b	39241	3682	35559
Stromal cell-derived factor-1 alpha (CXCL12)	CXCL12/SDF-1a	41557	5998	35559
Tumor necrosis factor-alpha	TNF-a	39013	3454	35559
Tumor necrosis factor-beta	TNF-b	37118	1559	35559
TNF-related apoptosis inducing ligand	TRAIL	74676	8186	35559
Vascular endothelial growth factor	VEGF	73608	7118	35559

Supplementary Table S8: characteristics of included GWAS disease databases

disease group	phenotype	Total N	Cases n	Control n	Study PMID / Author, Year	Population	source download link
cardiometabolic	Peripheral vascular disease	243060	31307	211753	31285632 / Klarin et al., 2019	European	https://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/study.cgi?study_id=phs000001.p1.v1
	Coronary artery disease	184305	60801	123504	26343387 / Nikpay et al., 2015	European	www.cardiogramplusc4d.org
	Largery artery stroke	1513117	9219	1503898	36180795 / Mishra et al., 2022	European	http://www.megastroke.org/
	diabetes mellitus type II	1812013	242283	1569730	38374256 / Suzuki et al. 2024	European	http://www.diagram-consortium.org/downloads.html
cancer	breast	247173	133384	113789	32424353 / Zhang et al. 2020	European	https://github.com/Wittelab/pancancer_pleiotropy
	colorectal	377673	5657	372016	10.5523/BRIS.AED0U12W0EDE200	European	https://data.bris.ac.uk/data/dataset/aed0u12w0ede200lb0
	lung	85716	29266	56450	28604730 / McKay et al. 2017	European	https://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/study.cgi?study_id=phs000001.p1.v1
	non-Hodgkins lymphoma	412750	2400	410350	32887889 / Rashkin et al. 2020	European	https://github.com/Wittelab/pancancer_pleiotropy
	skin	395710	23694	372016	10.5523/BRIS.AED0U12W0EDE200	European	https://data.bris.ac.uk/data/dataset/aed0u12w0ede200lb0
allergic and autoimmune	asthma	1376071	121940	1254131	36778051 / Tsuo et al., 2022	European	http://results.globalbiobankmeta.org/
	crohn's disease	20883	5956	14927	26192919 / Liu et al. 2015	European	https://www.ibdgenetics.org/
	multiple sclerosis	115803	47429	68374	31604244 / International Multiple	European	https://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/study.cgi?study_id=phs000001.p1.v1
	psoriasis	420461	4815	415646	30305743 / Bycroft et al., 2018	European	https://www.ncbi.nlm.nih.gov/gap/advanced_search/?TERMS=psoriasis
	rheumatoid arthritis	58284	14361	43923	24390342 / Okada et al. 2013	European	http://plaza.umin.ac.jp/~yokada/datasource/software.htm
	ulcerative colitis	27432	6968	20464	26192919 / Liu et al. 2015	European	https://www.ibdgenetics.org/