

Overview of the Omics data

Omics data that are accessible directly via TwinsUK. However, some of the omics data or subset of these data are publicly available on archived websites. The list of Omics includes but is not limited to:

Omics	Notes	Access route	Accession number
Genome	GWAS - 1000G	TWINSUK	
	GWAS – HRC Imputed	TWINSUK	
	Whole Genome Sequencing	EGA	EGAS00001000108
	Exome sequencing	EGA	EGAS00001001194
	Exome chip	TWINSUK	
Epigenome	MeDIP Seq	EGA	EGAC00001000274
	450K/EPIC (blood, fat, skin)	GEO	GSE90124
		Array Express	E-MTAB-1866
		ReShare UK Data Service	
Glycome	IgG (up to 2-3 time-points)	TWINSUK	
	IgA	TWINSUK	
	Whole plasma (up to 2-3 time-points)	TWINSUK	
Immunome		TWINSUK	
Metabolome	Biocrates	TWINSUK	
	Metabolon v3	TWINSUK	
	Metabolon v4 (up to 3 time-points)	TWINSUK	
	NMR-based metabolomics (up to 3 time-points)	TWINSUK	
	Short chain fatty acids (serum, faeces)	TWINSUK	
Metallome		TWINSUK	
Metagenome	(faeces)	EBI	PRJEB9584 PRJEB32731 PRJEB13747
Microbiome	16S (faeces)	EBI	ERP015317

Omics	Notes	Access route	Accession number
	16S (urine)	TWINSUK	
	16S (saliva)	TWINSUK	GCST009885
	16S (colon)	TWINSUK	
Proteome	SOMAscan	TWINSUK	
	Olink (up to 3 time-points)	TWINSUK	
Transcriptome	Microarray	Array Express	E-TABM-1140
	RNA-seq (blood, fat, skin, colon)	EGA	EGAS00001000805
	Longitudinal RNA (up to 3 time-points)	EGA	EGAD00001002068