

Dataset	Studied disease	Experimental strategy	Platform	Sample size	Reference
GSE10325	SLE	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array	67	(Hutcheson et al., 2008)
GSE104174	SSc	Expression profiling by high throughput sequencing	Illumina HiSeq 2500 (Homo sapiens)	72	(Moreno-Moral et al., 2018)
GSE108497	SLE	Expression profiling by array	Illumina HumanHT-12 V4.0 expression beadchip	512	NA
GSE110007	SjS	Methylation profiling by array	Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	31	(Cole et al., 2016)
GSE110169	SLE, RA	Expression profiling by array	[HG-U219] Affymetrix Human Genome U219 Array	234	NA
GSE110174	SLE	Expression profiling by array	[HT_HG-U133_Plus_PM] Affymetrix HT HG-U133+ PM Array Plate	154	NA
GSE110607	SLE	Methylation profiling by genome tiling array	Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	104	(Ulff-Møller et al., 2018)
GSE110914	T1D	Expression profiling by high throughput sequencing	Illumina HiSeq 2500 (Homo sapiens)	42	(Vecchio et al., 2018)
GSE112341	T1D	Expression profiling by high throughput sequencing	Illumina HiSeq 2500 (Homo sapiens)	22	(Gao et al., 2019)
GSE117931	SSc	Expression profiling by array, Methylation profiling by genome tiling array	Illumina HumanHT-12 WG-DASL V4.0 R2 expression beadchip, Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	74	NA
GSE11907	SLE	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array [HG-U133B] Affymetrix Human Genome U133B Array	546	(Chaussabel et al., 2008)
GSE12021	RA	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array [HG-U133B] Affymetrix Human Genome U133B Array	57	(Huber et al., 2008)
GSE124073	SSc	Expression profiling by high throughput sequencing	Illumina HiSeq 2000 (Homo sapiens)	73	(Mariotti et al., 2019)
GSE124939	SLE	Expression profiling by high throughput sequencing	Illumina HiSeq 4000 (Homo sapiens)	72	(Tsoi et al., 2019)
GSE13887	SLE	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	27	(Fernandez et al., 2009)
GSE23117	SjS	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	15	(Greenwell-Wild et al., 2011)
GSE24706	SLE	Expression profiling by array	Illumina HumanWG-6 v3.0 expression beadchip	48	(Li et al., 2011)
GSE27895	SLE	Methylation profiling by array	Illumina HumanMethylation27 BeadChip (HumanMethylation27_270596_v.1.2)	23	(Jeffries et al., 2011)
GSE30153	SLE	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	26	(Garaud et al., 2011)

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GSE38351	SLE,RA	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array [HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	74	(Smiljanovic et al., 2012)
GSE40611	SjS	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	49	(Horvath et al., 2012)
GSE42861	RA	Methylation profiling by array	Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	689	(Liu et al., 2013)
GSE45291	SLE,RA	Expression profiling by array	[HT_HG-U133_Plus_PM] Affymetrix HT HG-U133+ PM Array Plate	805	(Bienkowska et al., 2014)
GSE50772	SLE	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	81	(Kennedy et al., 2015)
GSE51092	SjS	Expression profiling by array	Illumina HumanWG-6 v3.0 expression beadchip	222	(Lessard et al., 2013)
GSE55098	T1D	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	22	(Yang et al., 2015)
GSE55235	RA	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array	30	(Woetzel et al., 2014)
GSE55457	RA	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array	33	(Woetzel et al., 2014)
GSE56606	T1D	Methylation profiling by array	Illumina HumanMethylation27 BeadChip (HumanMethylation27_270596_v.1.2)	100	(Rakyan et al., 2011)
GSE56649	RA	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	22	(Ye et al., 2015)
GSE57383	RA	Expression profiling by array	[HT_HG-U133_Plus_PM] Affymetrix HT HG-U133+ PM Array Plate	112	(Rosenberg et al., 2014)
GSE57869	SLE	Methylation profiling by array	Illumina HumanMethylation27 BeadChip (HumanMethylation27_270596_v.1.2)	12	(Hong et al., 2017)
GSE59250	SLE	Methylation profiling by array	Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	434	(Absher et al., 2013)
GSE60424	T1D	Expression profiling by high throughput sequencing	Illumina HiScanSQ (Homo sapiens)	134	(Linsley et al., 2014)
GSE61635	SLE	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	129	NA
GSE63903	SSc	Expression profiling by array	Illumina HumanHT-12 V4.0 expression beadchip	14	(Ayano et al., 2015)
GSE65010	RA	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	48	(Walter et al., 2016)
GSE65391	SLE	Expression profiling by array	Illumina HumanHT-12 V4.0 expression beadchip	996	(Banchereau et al., 2016)

Dataset	Studied disease	Experimental strategy	Platform	Sample size	Reference
GSE71841	RA	Methylation profiling by array	Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	24	NA
GSE72509	SLE	Expression profiling by high throughput sequencing	Illumina HiSeq 2500 (Homo sapiens)	117	(Hung et al., 2015)
GSE7451	SjS	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	20	(Hu et al., 2007)
GSE77298	RA	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	23	(Broeren et al., 2016)
GSE80183	SLE	Expression profiling by high throughput sequencing	Illumina HiSeq 2000 (Homo sapiens)	16	(Rai et al., 2016)
GSE82221	SLE	Expression profiling by array, Methylation profiling by genome tiling array	Illumina HumanHT-12 V4.0 expression beadchip, Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	110	NA
GSE84844	SjS	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	60	(Tasaki et al., 2017)
GSE87095	RA	Methylation profiling by array	Illumina HumanMethylation450 BeadChip (HumanMethylation450_15017482)	122	(Julià et al., 2017)
GSE89408	RA	Expression profiling by high throughput sequencing	Illumina HiSeq 2000 (Homo sapiens)	218	(Guo et al., 2017)
GSE90081	RA	Expression profiling by high throughput sequencing	Illumina HiSeq 2000 (Homo sapiens)	24	(Shchetynsky et al., 2017)
GSE93683	SjS	Expression profiling by array	[HG-U133_Plus_2] Affymetrix Human Genome U133 Plus 2.0 Array	48	(Tasaki et al., 2017)
GSE95065	SSc	Expression profiling by array	[HG-U133A_2] Affymetrix Human Genome U133A 2.0 Array (HGU133A2 Hs ENTREZG 19.0.0)	33	NA
GSE10325	SLE	Expression profiling by array	[HG-U133A] Affymetrix Human Genome U133A Array	67	

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