

ALLERGY, GENETICS

TIMELINE ASTHMA / ALLERGY GENETICS

21.11.2017

First Genetic Study

1923 AF. Coca, [J Immunol 8:163-171](#)

First Linkage Study (AB0 blood group)

1936. I. Zieve, [Ann Hum Gen 7:4074, 163-178](#)

First Molecular Study (HLA)

1973 D. Marsh, [Science 179:4074, 691-3](#)

Second Linkage Study (SLC14A1)

1985, H. Eiberg, Cytogenet Cell Genet 40: 622 -journal discontinued, no online archive-

Third Linkage Study (11q31) - [questionable results](#) -

1989 W. Cookson, [Lancet 1:8650, 1292-5](#)

First Modern Family Study

1992 S. Dold, [Arch Dis Child 67:8, 1018-22](#)

First gene (FcεRI-β)

1993 A.J.Sandford, The Lancet 341:8, 332-334

First true gene (IL4)

1994 D. Marsh, Science 264:5162, 1152-6

First Genomewide Linkage Scan

1996 S. Daniels, Nature 383:6597, 247-50

Transatlantic Airway Conference Key Biscayne FL

1997 N. Zamel (only reported later by Thompson 2003 and Duffy 2019)

Second Genomewide Linkage Scan

1997 CSGA Nature Genetics 15:389-392

Third Genomewide Linkage Scan

1999 M. Wjst, [Genomics 58:1-8](#)

First GWAS

2007 M. Moffatt, Nat Genet 15:389-392

Second GWAS

2008 C. Ober, NEJM 358: 1682-91

[then it is getting confusing](#)

Author [Ⓢ]	PMID [Ⓢ]	Study accession [Ⓢ]	Publication Date [Ⓢ] [↑]	Journal [Ⓢ]	Title [Ⓢ]	Reported trait [Ⓢ]	Association count [Ⓢ]	
Moffatt MF et al.	17611496 View paper	GCST000061	2007-07-26	Nature	Genetic variants regulating ORMDL3 expression contribute to the risk of childhood asthma.	Asthma	1	+
Ober C et al.	18403759 View paper	GCST000177	2008-04-09	N Engl J Med	Effect of variation in CH13L1 on serum YKL-40 level, risk of asthma, and lung function.	YKL-40 levels	1	+
Kim SH et al.	19187332 View paper	GCST000330	2009-02-01	Clin Exp Allergy	Alpha-T-catenin (CTNNA3) gene was identified as a risk variant for toluene diisocyanate-induced asthma by genome-wide association analysis.	Asthma (toluene diisocyanate-induced)	3	+
Gudbjartsson DF et al.	19196610 View paper	GCST000339	2009-02-06	Nat Genet	Sequence variants affecting eosinophil numbers associate with asthma and myocardial infarction.	Eosinophil counts	7	+
Himes BE et al.	19426955 View paper	GCST000389	2009-05-07	Am J Hum Genet	Genome-wide association analysis identifies PDE4D as an asthma-susceptibility gene.	Asthma	1	+
Hancock DB et al.	19714205 View paper	GCST000468	2009-08-28	PLoS Genet	Genome-wide association study implicates chromosome 9q21.31 as a susceptibility locus for asthma in Mexican children.	Asthma (childhood onset)	1	+
Mathias RA et al.	19910028 View paper	GCST000525	2009-11-10	J Allergy Clin Immunol	A genome-wide association study on African-ancestry populations for asthma.	Asthma	0	+
Castro-Giner F et al.	19951619 View paper	GCST000540	2009-12-06	BMC Med Genet	A pooling-based genome-wide analysis identifies new potential candidate genes for atopy in the European Community Respiratory Health Survey (ECRHS).	Atopy	1	+
Sleiman PM et al.	20032318 View paper	GCST000548	2009-12-23	N Engl J Med	Variants of DENND1B associated with asthma in children.	Asthma	2	+
Li X et al.	20159242 View paper	GCST000576	2010-02-01	J Allergy Clin Immunol	Genome-wide association study of asthma identifies RAD50-IL13 and HLA-DR/DQ regions.	Asthma	3	+
Himes BE et al.	20686975 View paper	GCST000768	2010-06-10	BMC Med Genet	Asthma-susceptibility variants identified using probands in case-control and family-based analyses.	Asthma	0	+
Moffatt MF et al.	20860503 View paper	GCST000804	2010-09-23	N Engl J Med	A large-scale, consortium-based genomewide association study of asthma.	Asthma	10	+
DeWan AT et al.	20920776 View paper	GCST000819	2010-10-01	J Allergy Clin Immunol	PDE11A associations with asthma: results of a genome-wide association scan.	Asthma	0	+
Kim JH et al.	21072201 View paper	GCST000859	2010-11-03	PLoS One	Genome-wide and follow-up studies identify CEP68 gene variants associated with risk of aspirin-intolerant asthma.	Aspirin intolerance in asthmatics	0	+
Ferreira MA et al.	21150878 View paper	GCST000910	2010-12-08	Eur J Hum Genet	Association between ORMDL3, IL1RL1 and a deletion on chromosome 17q21 with asthma risk in Australia.	Asthma	1	+
Ege MJ et al.	21211648 View paper	GCST000934	2011-01-01	J Allergy Clin Immunol	Gene-environment interaction for childhood asthma and exposure to farming in Central Europe.	Asthma or atopy (farm exposure interaction)	0	+

