

Rachel M Freathy

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

17,789
citations

57758

44
h-index

62596

80
g-index

111
all docs

111
docs citations

111
times ranked

22353
citing authors

#	ARTICLE	IF	CITATIONS
1	A Common Variant in the <i>FTO</i> Gene Is Associated with Body Mass Index and Predisposes to Childhood and Adult Obesity. <i>Science</i> , 2007, 316, 889-894.	12.6	3,884
2	Replication of Genome-Wide Association Signals in UK Samples Reveals Risk Loci for Type 2 Diabetes. <i>Science</i> , 2007, 316, 1336-1341.	12.6	2,040
3	Meta-analysis of genome-wide association data and large-scale replication identifies additional susceptibility loci for type 2 diabetes. <i>Nature Genetics</i> , 2008, 40, 638-645.	21.4	1,683
4	Association scan of 14,500 nonsynonymous SNPs in four diseases identifies autoimmunity variants. <i>Nature Genetics</i> , 2007, 39, 1329-1337.	21.4	1,298
5	Common variants near <i>MC4R</i> are associated with fat mass, weight and risk of obesity. <i>Nature Genetics</i> , 2008, 40, 768-775.	21.4	1,179
6	Genome-wide association analysis identifies 20 loci that influence adult height. <i>Nature Genetics</i> , 2008, 40, 575-583.	21.4	742
7	Genome-wide association analyses of chronotype in 697,828 individuals provides insights into circadian rhythms. <i>Nature Communications</i> , 2019, 10, 343.	12.8	417
8	Genome-wide associations for birth weight and correlations with adult disease. <i>Nature</i> , 2016, 538, 248-252.	27.8	406
9	Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. <i>Nature Genetics</i> , 2019, 51, 804-814.	21.4	402
10	A common variant of <i>HMGA2</i> is associated with adult and childhood height in the general population. <i>Nature Genetics</i> , 2007, 39, 1245-1250.	21.4	373
11	Genome-Wide Association Analyses in 128,266 Individuals Identifies New Morningness and Sleep Duration Loci. <i>PLoS Genetics</i> , 2016, 12, e1006125.	3.5	308
12	New loci associated with birth weight identify genetic links between intrauterine growth and adult height and metabolism. <i>Nature Genetics</i> , 2013, 45, 76-82.	21.4	293
13	Common Variation in the <i>FTO</i> Gene Alters Diabetes-Related Metabolic Traits to the Extent Expected Given Its Effect on BMI. <i>Diabetes</i> , 2008, 57, 1419-1426.	0.6	277
14	Height, body mass index, and socioeconomic status: mendelian randomisation study in UK Biobank. <i>BMJ</i> , 2016, 352, i582.	6.0	247
15	Variants in <i>ADCY5</i> and near <i>CCNL1</i> are associated with fetal growth and birth weight. <i>Nature Genetics</i> , 2010, 42, 430-435.	21.4	223
16	Genetic Evidence for Causal Relationships Between Maternal Obesity-Related Traits and Birth Weight. <i>JAMA - Journal of the American Medical Association</i> , 2016, 315, 1129.	7.4	220
17	A Meta-Analysis of Thyroid-Related Traits Reveals Novel Loci and Gender-Specific Differences in the Regulation of Thyroid Function. <i>PLoS Genetics</i> , 2013, 9, e1003266.	3.5	194
18	Genetic studies of accelerometer-based sleep measures yield new insights into human sleep behaviour. <i>Nature Communications</i> , 2019, 10, 1585.	12.8	189

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19	Gene-environment interactions in the UK Biobank study. <i>International Journal of Epidemiology</i> , 2017, 46, dyw337.	1.9	159
20	Genome-wide association study of offspring birth weight in 86,577 women identifies five novel loci and highlights maternal genetic effects that are independent of fetal genetics. <i>Human Molecular Genetics</i> , 2018, 27, 742-756.	2.9	156
21	Using genetics to understand the causal influence of higher BMI on depression. <i>International Journal of Epidemiology</i> , 2019, 48, 834-848.	1.9	156
22	Identification of Novel Genetic Loci Associated with Thyroid Peroxidase Antibodies and Clinical Thyroid Disease. <i>PLoS Genetics</i> , 2014, 10, e1004123.	3.5	150
23	Type 2 Diabetes Risk Alleles Are Associated With Reduced Size at Birth. <i>Diabetes</i> , 2009, 58, 1428-1433.	0.6	135
24	A common genetic variant in the 15q24 nicotinic acetylcholine receptor gene cluster (CHRNA5-CHRNA3-CHRNA4) is associated with a reduced ability of women to quit smoking in pregnancy. <i>Human Molecular Genetics</i> , 2009, 18, 2922-2927.	2.9	132
25	Common variants at 12q15 and 12q24 are associated with infant head circumference. <i>Nature Genetics</i> , 2012, 44, 532-538.	21.4	130
26	Genetic Evidence for a Link Between Favorable Adiposity and Lower Risk of Type 2 Diabetes, Hypertension, and Heart Disease. <i>Diabetes</i> , 2016, 65, 2448-2460.	0.6	122
27	Human longevity is influenced by many genetic variants: evidence from 75,000 UK Biobank participants. <i>Aging</i> , 2016, 8, 547-560.	3.1	113
28	Type 2 Diabetes TCF7L2 Risk Genotypes Alter Birth Weight: A Study of 24,053 Individuals. <i>American Journal of Human Genetics</i> , 2007, 80, 1150-1161.	6.2	112
29	A novel common variant in DCST2 is associated with length in early life and height in adulthood. <i>Human Molecular Genetics</i> , 2015, 24, 1155-1168.	2.9	109
30	Genetic variation at CHRNA5-CHRNA3-CHRNA4 interacts with smoking status to influence body mass index. <i>International Journal of Epidemiology</i> , 2011, 40, 1617-1628.	1.9	100
31	Hyperglycemia and Adverse Pregnancy Outcome (HAPO) Study: Common Genetic Variants in GSK3A and TCF7L2 Are Associated With Fasting and Postchallenge Glucose Levels in Pregnancy and With the New Consensus Definition of Gestational Diabetes Mellitus From the International Association of Diabetes and Pregnancy Study Groups. <i>Diabetes</i> , 2010, 59, 2682-2689.	0.6	95
32	Novel loci for childhood body mass index and shared heritability with adult cardiometabolic traits. <i>PLoS Genetics</i> , 2020, 16, e1008718.	3.5	95
33	Mosaic Turner syndrome shows reduced penetrance in an adult population study. <i>Genetics in Medicine</i> , 2019, 21, 877-886.	2.4	88
34	GWAS on longitudinal growth traits reveals different genetic factors influencing infant, child, and adult BMI. <i>Science Advances</i> , 2019, 5, eaaw3095.	10.3	86
35	Using structural equation modelling to jointly estimate maternal and fetal effects on birthweight in the UK Biobank. <i>International Journal of Epidemiology</i> , 2018, 47, 1229-1241.	1.9	84
36	Mendelian Randomization Studies Do Not Support a Role for Raised Circulating Triglyceride Levels Influencing Type 2 Diabetes, Glucose Levels, or Insulin Resistance. <i>Diabetes</i> , 2011, 60, 1008-1018.	0.6	77

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37	A Common Allele in FGF21 Associated with Sugar Intake Is Associated with Body Shape, Lower Total Body-Fat Percentage, and Higher Blood Pressure. <i>Cell Reports</i> , 2018, 23, 327-336.	6.4	76
38	Genome-Wide and Abdominal MRI Data Provide Evidence That a Genetically Determined Favorable Adiposity Phenotype Is Characterized by Lower Ectopic Liver Fat and Lower Risk of Type 2 Diabetes, Heart Disease, and Hypertension. <i>Diabetes</i> , 2019, 68, 207-219.	0.6	72
39	Parental diabetes and birthweight in 236 030 individuals in the UK Biobank Study. <i>International Journal of Epidemiology</i> , 2013, 42, 1714-1723.	1.9	65
40	Variants in the FTO and CDKAL1 loci have recessive effects on risk of obesity and type 2 diabetes, respectively. <i>Diabetologia</i> , 2016, 59, 1214-1221.	6.3	65
41	CNV-association meta-analysis in 191,161 European adults reveals new loci associated with anthropometric traits. <i>Nature Communications</i> , 2017, 8, 744.	12.8	64
42	Genetic variation in the 15q25 nicotinic acetylcholine receptor gene cluster (CHRNA5â“CHRNA3â“CHRNA4) interacts with maternal self-reported smoking status during pregnancy to influence birth weight. <i>Human Molecular Genetics</i> , 2012, 21, 5344-5358.	2.9	62
43	Using a two-sample Mendelian randomization design to investigate a possible causal effect of maternal lipid concentrations on offspring birth weight. <i>International Journal of Epidemiology</i> , 2019, 48, 1457-1467.	1.9	56
44	Genetic evidence that lower circulating FSH levels lengthen menstrual cycle, increase age at menopause and impact female reproductive health. <i>Human Reproduction</i> , 2016, 31, 473-481.	0.9	51
45	Variants in the fetal genome near pro-inflammatory cytokine genes on 2q13 associate with gestational duration. <i>Nature Communications</i> , 2019, 10, 3927.	12.8	49
46	Smoking Is Associated with, but Does Not Cause, Depressed Mood in Pregnancy â“ A Mendelian Randomization Study. <i>PLoS ONE</i> , 2011, 6, e21689.	2.5	48
47	Mendelian randomization study of maternal influences on birthweight and future cardiometabolic risk in the HUNT cohort. <i>Nature Communications</i> , 2020, 11, 5404.	12.8	48
48	Adult height variants affect birth length and growth rate in children. <i>Human Molecular Genetics</i> , 2011, 20, 4069-4075.	2.9	47
49	Multi-ancestry genome-wide association study of gestational diabetes mellitus highlights genetic links with type 2 diabetes. <i>Human Molecular Genetics</i> , 2022, 31, 3377-3391.	2.9	47
50	Quantifying the extent to which index event biases influence large genetic association studies. <i>Human Molecular Genetics</i> , 2017, 26, ddw433.	2.9	40
51	Association of maternal circulating 25(OH)D and calcium with birth weight: A mendelian randomisation analysis. <i>PLoS Medicine</i> , 2019, 16, e1002828.	8.4	39
52	Fetal Genotype and Maternal Glucose Have Independent and Additive Effects on Birth Weight. <i>Diabetes</i> , 2018, 67, 1024-1029.	0.6	38
53	Dissecting maternal and fetal genetic effects underlying the associations between maternal phenotypes, birth outcomes, and adult phenotypes: A mendelian-randomization and haplotype-based genetic score analysis in 10,734 motherâ“infant pairs. <i>PLoS Medicine</i> , 2020, 17, e1003305.	8.4	37
54	Genetic origins of low birth weight. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2012, 15, 258-264.	2.5	35

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55	Phosphodiesterase 8B Gene Polymorphism Is Associated with Subclinical Hypothyroidism in Pregnancy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 4608-4612.	3.6	30
56	Higher adiposity and mental health: causal inference using Mendelian randomization. <i>Human Molecular Genetics</i> , 2021, 30, 2371-2382.	2.9	29
57	How Can Genetic Studies Help Us to Understand Links Between Birth Weight and Type 2 Diabetes?. <i>Current Diabetes Reports</i> , 2017, 17, 22.	4.2	28
58	Using Mendelian Randomisation methods to understand whether diurnal preference is causally related to mental health. <i>Molecular Psychiatry</i> , 2021, 26, 6305-6316.	7.9	26
59	Association Analysis of 29,956 Individuals Confirms That a Low-Frequency Variant at <i>CCND2</i> Halves the Risk of Type 2 Diabetes by Enhancing Insulin Secretion. <i>Diabetes</i> , 2015, 64, 2279-2285.	0.6	24
60	Two decades since the fetal insulin hypothesis: what have we learned from genetics?. <i>Diabetologia</i> , 2021, 64, 717-726.	6.3	22
61	The Role of Inflammatory Pathway Genetic Variation on Maternal Metabolic Phenotypes during Pregnancy. <i>PLoS ONE</i> , 2012, 7, e32958.	2.5	20
62	Association of COMT Val108/158Met Genotype and Cigarette Smoking in Pregnant Women. <i>Nicotine and Tobacco Research</i> , 2011, 13, 55-63.	2.6	18
63	The functional "KL-VS" variant of KLOTHO is not associated with type 2 diabetes in 5028 UK Caucasians. <i>BMC Medical Genetics</i> , 2006, 7, 51.	2.1	17
64	The Effect of Genetic Variation on the Placental Transcriptome in Humans. <i>Frontiers in Genetics</i> , 2019, 10, 550.	2.3	15
65	Advancing human health in the decade ahead: pregnancy as a key window for discovery. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 223, 312-321.	1.3	13
66	Common maternal and fetal genetic variants show expected polygenic effects on risk of small- or large-for-gestational-age (SGA or LGA), except in the smallest 3% of babies. <i>PLoS Genetics</i> , 2020, 16, e1009191.	3.5	13
67	The influence of transmitted and non-transmitted parental BMI-associated alleles on the risk of overweight in childhood. <i>Scientific Reports</i> , 2020, 10, 4806.	3.3	12
68	The Impact of the Angiotensin-Converting Enzyme Insertion/Deletion Polymorphism on Severe Hypoglycemia in Type 2 Diabetes. <i>Review of Diabetic Studies</i> , 2006, 3, 76-76.	1.3	11
69	Can genetic evidence help us to understand the fetal origins of type 2 diabetes?. <i>Diabetologia</i> , 2016, 59, 1850-1854.	6.3	10
70	Genetics of early growth traits. <i>Human Molecular Genetics</i> , 2020, 29, R66-R72.	2.9	9
71	Higher maternal adiposity reduces offspring birthweight if associated with a metabolically favourable profile. <i>Diabetologia</i> , 2021, 64, 2790-2802.	6.3	9
72	Investigating the causal effect of maternal vitamin B12 and folate levels on offspring birthweight. <i>International Journal of Epidemiology</i> , 2021, 50, 179-189.	1.9	6

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73	Response to Prakash et al.. Genetics in Medicine, 2019, 21, 1884-1885.	2.4	5
74	Functional variation in VEGF is not associated with type 2 diabetes in a United Kingdom Caucasian population. JOP: Journal of the Pancreas, 2006, 7, 295-302.	1.5	4
75	Babies of South Asian and European Ancestry Show Similar Associations With Genetic Risk Score for Birth Weight Despite the Smaller Size of South Asian Newborns. Diabetes, 2022, 71, 821-836.	0.6	3
76	All thresholds of maternal hyperglycaemia from the WHO 2013 criteria for gestational diabetes identify women with a higher genetic risk for type 2 diabetes. Wellcome Open Research, 2020, 5, 175.	1.8	2
77	Shedding light on the genetics of fetal growth. Nature Genetics, 2021, 53, 1120-1121.	21.4	2
78	Fetal alleles predisposing to metabolically favorable adiposity are associated with higher birth weight. Human Molecular Genetics, 2022, 31, 1762-1775.	2.9	2
79	A study of association between common variation in the growth hormone-chorionic somatomammotropin hormone gene cluster and adult fasting insulin in a UK Caucasian population. Journal of Negative Results in BioMedicine, 2006, 5, 18.	1.4	1
80	Common genetic variants with fetal effects on birth weight are enriched for proximity to genes implicated in rare developmental disorders. Human Molecular Genetics, 2021, 30, 1057-1066.	2.9	1
81	586Effects of maternal circulating amino acids on offspring birthweight: a Mendelian randomisation analysis. International Journal of Epidemiology, 2021, 50, .	1.9	1
82	All thresholds of maternal hyperglycaemia from the WHO 2013 criteria for gestational diabetes identify women with a higher genetic risk for type 2 diabetes. Wellcome Open Research, 2020, 5, 175.	1.8	1
83	Reply to "Diversity is essential for good science and Reproductive science is no different: A response to the recent formulation of the Burroughs Wellcome Fund Pregnancy Think-Tank". American Journal of Obstetrics and Gynecology, 2020, 223, 951-952.	1.3	0
84	Challenges and solutions for diabetes early career researchers in the COVID-19 recovery: Perspectives of the Diabetes UK Innovators in Diabetes. Diabetic Medicine, 2021, , e14698.	2.3	0
85	All thresholds of maternal hyperglycaemia from the WHO 2013 criteria for gestational diabetes identify women with a higher genetic risk for type 2 diabetes. Wellcome Open Research, 0, 5, 175.	1.8	0
86	Title is missing!. , 2020, 17, e1003305.		0
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91	Title is missing!. , 2020, 17, e1003305.		0