Scott M Williams

List of Publications by Year
in descending order

136 papers	8,806 citations	71102 41 h-index	46799 89 g-index
140 all docs	140 docs citations	140 times ranked	15234 citing authors

#	Article	IF	Citations
1	The Genetic Structure and History of Africans and African Americans. Science, 2009, 324, 1035-1044.	12.6	1,267
2	The Missing Diversity in Human Genetic Studies. Cell, 2019, 177, 26-31.	28.9	838
3	A High-Density Admixture Map for Disease Gene Discovery in African Americans. American Journal of Human Genetics, 2004, 74, 1001-1013.	6.2	416
4	Chloroplast DNA polymorphisms in lodgepole and jack pines and their hybrids.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 2097-2100.	7.1	409
5	New strategies for identifying gene-gene interactions in hypertension. Annals of Medicine, 2002, 34, 88-95.	3.8	377
6	Epistasis and Its Implications for Personal Genetics. American Journal of Human Genetics, 2009, 85, 309-320.	6.2	326
7	Traversing the conceptual divide between biological and statistical epistasis: systems biology and a more modern synthesis. BioEssays, 2005, 27, 637-646.	2.5	301
8	A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. Nature Genetics, 2013, 45, 690-696.	21.4	232
9	Failure to Replicate a Genetic Association May Provide Important Clues About Genetic Architecture. PLoS ONE, 2009, 4, e5639.	2.5	227
10	Human and Helicobacter pylori coevolution shapes the risk of gastric disease. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1455-1460.	7.1	198
11	Genome-wide Association Analysis of Blood-Pressure Traits in African-Ancestry Individuals Reveals Common Associated Genes in African and Non-African Populations. American Journal of Human Genetics, 2013, 93, 545-554.	6.2	189
12	Shadows of complexity: what biological networks reveal about epistasis and pleiotropy. BioEssays, 2009, 31, 220-227.	2.5	162
13	5' Flanking Variants of Resistin Are Associated With Obesity. Diabetes, 2002, 51, 1629-1634.	0.6	158
14	Multilocus Analysis of Hypertension: A Hierarchical Approach. Human Heredity, 2004, 57, 28-38.	0.8	146
15	Recurrent Tissue-Specific mtDNA Mutations Are Common in Humans. PLoS Genetics, 2013, 9, e1003929.	3.5	130
16	Phylogeny of the tropical tree family Dipterocarpaceae based on nucleotide sequences of the chloroplast RBCL gene. American Journal of Botany, 1999, 86, 1182-1190.	1.7	125
17	Genetic Differences in Human Circadian Clock Genes among Worldwide Populations. Journal of Biological Rhythms, 2008, 23, 330-340.	2.6	108
18	Admixture Mapping in Lupus Identifies Multiple Functional Variants within IFIH1 Associated with Apoptosis, Inflammation, and Autoantibody Production. PLoS Genetics, 2013, 9, e1003222.	3.5	107

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19	Single-Nucleotide Polymorphisms for Diagnosis of Salt-Sensitive Hypertension. Clinical Chemistry, 2006, 52, 352-360.	3.2	103
20	Common Variation in Vitamin D Pathway Genes Predicts Circulating 25-Hydroxyvitamin D Levels among African Americans. PLoS ONE, 2011, 6, e28623.	2.5	103
21	The premature infant gut microbiome during the first 6 weeks of life differs based on gestational maturity at birth. Pediatric Research, 2018, 84, 71-79.	2.3	101
22	Guidelines for Genome-Wide Association Studies. PLoS Genetics, 2012, 8, e1002812.	3.5	88
23	Elevated male European and female African contributions to the genomes of African American individuals. Human Genetics, 2006, 120, 713-722.	3.8	84
24	A Simple and Computationally Efficient Approach to Multifactor Dimensionality Reduction Analysis of Gene-Gene Interactions for Quantitative Traits. PLoS ONE, 2013, 8, e66545.	2.5	82
25	The use of animal models in the study of complex disease: all else is never equal or why do so many human studies fail to replicate animal findings?. BioEssays, 2004, 26, 170-179.	2.5	81
26	The ubiquity of pleiotropy in human disease. Human Genetics, 2018, 137, 39-44.	3.8	81
27	A Locus at 5q33.3 Confers Resistance to Tuberculosis in Highly Susceptible Individuals. American Journal of Human Genetics, 2016, 98, 514-524.	6.2	78
28	Race, African Ancestry, and Helicobacter pylori Infection in a Low-Income United States Population. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 826-834.	2.5	76
29	Parentage analysis using RAPD PCR. Nucleic Acids Research, 1992, 20, 5493-5493.	14.5	74
30	Is Isolated Low High-Density Lipoprotein Cholesterol a Cardiovascular Disease Risk Factor?. Circulation: Cardiovascular Quality and Outcomes, 2016, 9, 206-212.	2.2	71
31	An information-gain approach to detecting three-way epistatic interactions in genetic association studies. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 630-636.	4.4	69
32	Comparative reproductive success of communally breeding burying beetles as assessed by PCR with randomly amplified polymorphic DNA.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 2242-2245.	7.1	66
33	Molecular analyses of circadian gene variants reveal sex-dependent links between depression and clocks. Translational Psychiatry, 2016, 6, e748-e748.	4.8	65
34	Genetic markers associated with resistance to infectious hematopoietic necrosis in rainbow and steelhead trout (Oncorhynchus mykiss) backcrosses. Aquaculture, 2004, 241, 93-115.	3.5	63
35	Genetic variants of GSNOR and ADRB2 influence response to albuterol in Africanâ€American children with severe asthma. Pediatric Pulmonology, 2009, 44, 649-654.	2.0	61
36	Blood Vitamin D Levels in Relation to Genetic Estimation of African Ancestry. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 2325-2331.	2.5	56

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37	Disrupted humanÃ¢â‚¬â„¢pathogen co-evolution: a model for disease. Frontiers in Genetics, 2014, 5, 290.	2.3	50
38	Methyl-group dietary intake and risk of breast cancer among African-American women: a caseâ€“control study by methylation status of the estrogen receptor alpha genes. Cancer Causes and Control, 2003, 14, 827-836.	1.8	48
39	Beta-1-adrenoceptor genetic variants and ethnicity independently affect response to beta-blockade. Pharmacogenetics and Genomics, 2008, 18, 895-902.	1.5	48
40	High Body Mass Index is an Important Risk Factor for the Development of Type 2 Diabetes. Internal Medicine, 2012, 51, 1821-1826.	0.7	47
41	Gender-specific correlations of plasminogen activator inhibitor-1 and tissue plasminogen activator levels with cardiovascular disease-related traits. Journal of Thrombosis and Haemostasis, 2007, 5, 313-320.	3.8	44
42	A Dietary-Wide Association Study (DWAS) of Environmental Metal Exposure in US Children and Adults. PLoS ONE, 2014, 9, e104768.	2.5	43
43	Genome-Wide Association Study for Circulating Tissue Plasminogen Activator Levels and Functional Follow-Up Implicates Endothelial STXBP5 and STX2. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1093-1101.	2.4	43
44	HTR1B, ADIPOR1, PPARGC1A, and CYP19A1 and Obesity in a Cohort of Caucasians and African Americans: An Evaluation of Gene-Environment Interactions and Candidate Genes. American Journal of Epidemiology, 2012, 175, 11-21.	3.4	42
45	Cardiovascular Disease Risk Factors in Ghana during the Rural-to-Urban Transition: A Cross-Sectional Study. PLoS ONE, 2016, 11, e0162753.	2.5	41
46	Interaction between host genes and Mycobacterium tuberculosis lineage can affect tuberculosis severity: Evidence for coevolution?. PLoS Genetics, 2020, 16, e1008728.	3.5	40
47	ADIPOQ, ADIPOR1, and ADIPOR2 Polymorphisms in Relation to Serum Adiponectin Levels and BMI in Black and White Women. Obesity, 2011, 19, 2053-2062.	3.0	39
48	Molecular genetic analysis of Drosophila rDNA arrays. Trends in Genetics, 1992, 8, 335-340.	6.7	37
49	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. PLoS Medicine, 2020, 17, e1003305.	8.4	37
50	Endothelial NO Synthase Polymorphisms and Postural Tachycardia Syndrome. Hypertension, 2005, 46, 1103-1110.	2.7	36
51	Whole exome sequencing reveals HSPA1L as a genetic risk factor for spontaneous preterm birth. PLoS Genetics, 2018, 14, e1007394.	3.5	35
52	Calculation and Use of the Hardyâ€Weinberg Model in Association Studies. Current Protocols in Human Genetics, 2008, 57, Unit 1.18.	3.5	33
53	The multiscale backbone of the human phenotype network based on biological pathways. BioData Mining, 2014, 7, 1.	4.0	32
54	Variation in the ??2B-adrenergic receptor gene (ADRA2B) and its relationship to vascular response in vivo. Pharmacogenetics and Genomics, 2005, 15, 407-414.	1.5	31

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55	Epistatic effects of polymorphisms in genes from the renin-angiotensin, bradykinin, and fibrinolytic systems on plasma t-PA and PAI-1 levels. Genomics, 2007, 89, 362-369.	2.9	30
56	Genomics of Human Pulmonary Tuberculosis: from Genes to Pathways. Current Genetic Medicine Reports, 2017, 5, 149-166.	1.9	30
57	Variations in the Î±2A-adrenergic receptor gene and their functional effects. Clinical Pharmacology and Therapeutics, 2006, 79, 173-185.	4.7	28
58	A chromosome 5q31.1 locus associates with tuberculin skin test reactivity in HIV-positive individuals from tuberculosis hyper-endemic regions in east Africa. PLoS Genetics, 2017, 13, e1006710.	3.5	28
59	The Cytochrome P450 Slow Metabolizers CYP2C9*2 and CYP2C9*3 Directly Regulate Tumorigenesis via Reduced Epoxyeicosatrienoic Acid Production. Cancer Research, 2018, 78, 4865-4877.	0.9	27
60	Genetic Variation in the Peroxisome Proliferator-Activated Receptor (PPAR) and Peroxisome Proliferator-Activated Receptor Gamma Co-activator 1 (PGC1) Gene Families and Type 2 Diabetes. Annals of Human Genetics, 2014, 78, 23-32.	0.8	26
61	Meta-analysis of Randomized Controlled Trials of Genotype-Guided vs Standard Dosing of Warfarin. Chest, 2015, 148, 701-710.	0.8	26
62	Sister chromatid exchange and the evolution of rDNA spacer length. Journal of Theoretical Biology, 1985, 116, 625-636.	1.7	25
63	Estrogen receptor status of breast cancer: a marker of different stages of tumor or different entities of the disease?. Medical Hypotheses, 1997, 49, 69-75.	1.5	25
64	Helicobacter pylori infection causes both protective and deleterious effects in human health and disease. Genes and Immunity, 2021, 22, 218-226.	4.1	25
65	Reporting of model validation procedures in human studies of genetic interactions. Nutrition, 2004, 20, 69-73.	2.4	24
66	Genetics and evolution of tuberculosis pathogenesis: New perspectives and approaches. Infection, Genetics and Evolution, 2020, 81, 104204.	2.3	24
67	Desensitization of vascular response in vivo: contribution of genetic variation in the Î±2B-adrenergic receptor subtype. Journal of Hypertension, 2010, 28, 278-284.	0.5	23
68	Cytochrome P450 epoxygenases and cancer: A genetic and a molecular perspective. , 2019, 196, 183-194.		23
69	Methyl-deficient diets, methylated ER genes and breast cancer: an hypothesized association. , 1998, 9, 615-620.		22
70	Maleâ€“female differences in the genetic regulation of t-PA and PAI-1 levels in a Ghanaian population. Human Genetics, 2008, 124, 479-488.	3.8	21
71	Cytokine polymorphisms and gastric cancer risk: An evolving view. Cancer Biology and Therapy, 2008, 7, 157-162.	3.4	21
72	Plasminogen Activator Inhibitorâ€1 and Diagnosis of the Metabolic Syndrome in a West African Population. Journal of the American Heart Association, 2016, 5, .	3.7	21

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73	A Single Nucleotide Polymorphism in SLC7A5 Is Associated with Gastrointestinal Toxicity after High-Dose Melphalan and Autologous Stem Cell Transplantation for Multiple Myeloma. Biology of Blood and Marrow Transplantation, 2014, 20, 1014-1020.	2.0	20
74	Identifying significant geneâ€environment interactions using a combination of screening testing and hierarchical false discovery rate control. Genetic Epidemiology, 2016, 40, 544-557.	1.3	20
75	Ethnic diversity in a critical gene responsible for glutathione synthesis. Free Radical Biology and Medicine, 2003, 34, 72-76.	2.9	19
76	Neighborhood socio-economic characteristics, African ancestry, and Helicobacter pylori sero-prevalence. Cancer Causes and Control, 2012, 23, 897-906.	1.8	19
77	HS3ST1 genotype regulates antithrombin's inflammomodulatory tone and associates with atherosclerosis. Matrix Biology, 2017, 63, 69-90.	3.6	19
78	Superstructure of the Drosophila ribosomal gene family.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 3156-3160.	7.1	18
79	Discovery and fine-mapping of height loci via high-density imputation of GWASs in individuals of African ancestry. American Journal of Human Genetics, 2021, 108, 564-582.	6.2	18
80	Global variation in sequencing impedes SARS-CoV-2 surveillance. PLoS Genetics, 2021, 17, e1009620.	3.5	18
81	Complex Patterns of Association between Pleiotropy and Transcription Factor Evolution. Genome Biology and Evolution, 2016, 8, 3159-3170.	2.5	17
82	Pleiotropic Effects of Immune Responses Explain Variation in the Prevalence of Fibroproliferative Diseases. PLoS Genetics, 2015, 11, e1005568.	3.5	17
83	The effects of polymorphisms in genes from the reninâ€“angiotensin, bradykinin, and fibrinolytic systems on plasma t-PA and PAI-1 levels are dependent on environmental context. Human Genetics, 2007, 122, 275-281.	3.8	16
84	Peroxisome Proliferator-Activated Receptor Delta (PPARD) Genetic Variation and Type 2 Diabetes in Middle-Aged Chinese Women. Annals of Human Genetics, 2011, 75, 621-629.	0.8	16
85	Joint Effect of Genetic and Lifestyle Risk Factors on Type 2 Diabetes Risk among Chinese Men and Women. PLoS ONE, 2012, 7, e49464.	2.5	16
86	The Association of the Vanin-1 N131S Variant with Blood Pressure Is Mediated by Endoplasmic Reticulum-Associated Degradation and Loss of Function. PLoS Genetics, 2014, 10, e1004641.	3.5	16
87	Height associated variants demonstrate assortative mating in human populations. Scientific Reports, 2017, 7, 15689.	3.3	15
88	Genetic Diversity of the Fragile X Syndrome Gene (FMR1) in a Large Subâ€Saharan West African Population. Annals of Human Genetics, 2010, 74, 316-325.	0.8	14
89	High Density of an SAR-Associated Motif Differentiates Heterochromatin From Euchromatin. Journal of Theoretical Biology, 1996, 183, 159-167.	1.7	13
90	Widespread epistasis regulates glucose homeostasis and gene expression. PLoS Genetics, 2017, 13, e1007025.	3.5	13

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91	Genetic regulation of cervical antiinflammatory cytokine concentrations during pregnancy. American Journal of Obstetrics and Gynecology, 2008, 199, 163.e1-163.e11.	1.3	12
92	Genomics, Nutrition, Obesity, and Diabetes. Journal of Nursing Scholarship, 2006, 38, 11-18.	2.4	11
93	Epiregulin (EREG) and human V-ATPase (TCIRG1): genetic variation, ethnicity and pulmonary tuberculosis susceptibility in Guinea-Bissau and The Gambia. Genes and Immunity, 2014, 15, 370-377.	4.1	11
94	Preterm Birth Genome Project (PGP) â€“ validation of resources for preterm birth genome-wide studies. Journal of Perinatal Medicine, 2013, 41, 45-9.	1.4	10
95	PLOS Genetics Data Sharing Policy: In Pursuit of Functional Utility. PLoS Genetics, 2015, 11, e1005716.	3.5	10
96	A population-based study in Ghana to investigate inter-individual variation in plasma t-PA and PAI-1. Ethnicity and Disease, 2007, 17, 492-7.	2.3	10
97	Epigenetic and genetic variation in GATA5 is associated with gastric disease risk. Human Genetics, 2016, 135, 895-906.	3.8	9
98	Resistance to TST/IGRA conversion in Uganda: Heritability and Genome-Wide Association Study. EBioMedicine, 2021, 74, 103727.	6.1	9
99	Sexâ€Specific Parental Effects on Offspring Lipid Levels. Journal of the American Heart Association, 2015, 4, .	3.7	8
100	Genetic variation in the eicosanoid pathway is associated with non-small-cell lung cancer (NSCLC) survival. PLoS ONE, 2017, 12, e0180471.	2.5	8
101	Leveraging epigenomics and contactomics data to investigate SNP pairs in GWAS. Human Genetics, 2018, 137, 413-425.	3.8	8
102	Research to achieve a reduction in the global rate of preterm birth needs attention: Preface to the special issue by the preterm Birth International Collaborative (PREBIC). Placenta, 2019, 79, 1-2.	1.5	8
103	Genetics of Plasminogen Activator Inhibitor-1 (PAI-1) in a Ghanaian Population. PLoS ONE, 2015, 10, e0136379.	2.5	8
104	Common single nucleotide polymorphisms in the promoter region of the human factor XI gene. Journal of Thrombosis and Haemostasis, 2003, 1, 1854-1856.	3.8	7
105	Tipping the Scale Towards Gastric Disease: a Host-Pathogen Genomic Mismatch?. Current Genetic Medicine Reports, 2018, 6, 199-207.	1.9	7
106	GEneSTATION 1.0: a synthetic resource of diverse evolutionary and functional genomic data for studying the evolution of pregnancy-associated tissues and phenotypes. Nucleic Acids Research, 2016, 44, D908-D916.	14.5	6
107	Î²₂â€Adrenergic Receptor Promoter Haplotype Influences Spirometric Response During an Acute Asthma Exacerbation. Clinical and Translational Science, 2008, 1, 155-161.	3.1	5
108	A Systems Genetics Approach to Dyslipidemia in Children and Adolescents. OMICS A Journal of Integrative Biology, 2015, 19, 248-259.	2.0	5

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109	CLEC4E (Mincle) genetic variation associates with pulmonary tuberculosis in Guinea-Bissau (West) Tj ETQq1 1 0.784314 rgBT /Overlo	2.3	5
110	Estimating prevalence of human traits among populations from polygenic risk scores. Human Genomics, 2021, 15, 70.	2.9	5
111	The maintenance of polymorphism owing to differences in developmental time and competition. Genome, 1985, 27, 328-333.	0.7	4
112	Genetic Population Structure Analysis in New Hampshire Reveals Eastern European Ancestry. PLoS ONE, 2009, 4, e6928.	2.5	4
113	Genetic Effects on the Correlation Structure of CVD Risk Factors: Exome-Wide Data From a Ghanaian Population. Global Heart, 2017, 12, 133.	2.3	4
114	AGT M235T Genotype/Anxiety Interaction and Gender in the HyperGEN Study. PLoS ONE, 2010, 5, e13353.	2.5	4
115	Epistatic Interactions in Genetic Regulation of t-PA and PAI-1 Levels in a Ghanaian Population. PLoS ONE, 2011, 6, e16639.	2.5	4
116	A Novel Mapping Strategy Utilizing Mouse Chromosome Substitution Strains Identifies Multiple Epistatic Interactions That Regulate Complex Traits. G3: Genes, Genomes, Genetics, 2020, 10, 4553-4563.	1.8	4
117	Up For A Challenge (U4C): Stimulating innovation in breast cancer genetic epidemiology. PLoS Genetics, 2017, 13, e1006945.	3.5	3
118	Testing the assumptions of parametric linear models: the need for biological data mining in disciplines such as human genetics. BioData Mining, 2019, 12, 6.	4.0	3
119	Genetic Variation and Insulin Resistance in Middleâ€Aged Chinese Men. Annals of Human Genetics, 2015, 79, 357-365.	0.8	2
120	Ornithine decarboxylase (ODC1) gene variant (rs2302615) is associated with gastric cancer independently of Helicobacter pylori CagA serostatus. Oncogene, 2021, 40, 5963-5969.	5.9	2
121	Liberal-arts education helps scientists think and communicate. Nature, 2022, 603, 578-578.	27.8	2
122	On the applicability of game theory to evolution: A response. Journal of Theoretical Biology, 1981, 91, 603-605.	1.7	1
123	Association between lifestyle-related disorders and visceral fat mass in Japanese males: a hospital based cross-sectional study. Environmental Health and Preventive Medicine, 2014, 19, 429-435.	3.4	1
124	Draft Genome Sequences of 13 Colombian Helicobacter pylori Strains Isolated from Pacific Coast and Andean Residents. Genome Announcements, 2017, 5, .	0.8	1
125	Evolutionary Triangulation to Refine Genetic Association Studies of Spontaneous Preterm Birth. American Journal of Perinatology, 2017, 34, 1041-1047.	1.4	1
126	Evolutionarily derived networks to inform disease pathways. Genetic Epidemiology, 2017, 41, 866-875.	1.3	1

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127	A comparison of two workflows for regulome and transcriptomeâ€based prioritization of genetic variants associated with myocardial mass. Genetic Epidemiology, 2019, 43, 717-726.	1.3	1
128	The Plight of Muntaser Ibrahim. PLoS Genetics, 2019, 15, e1008100.	3.5	1
129	Evaluating the strength of genetic results: Risks and responsibilities. PLoS Genetics, 2019, 15, e1008437.	3.5	1
130	Differences in life history traits between alcohol dehydrogenase genotypes of Drosophila mercatorum: background and maternal genotype effects. Genetica, 1987, 74, 149-153.	1.1	0
131	Lumping, splitting and mapping: assessing linkage in different ethnic groups for albuminuria and glomerular filtration rate in the HyperGen study. Nephrology Dialysis Transplantation, 2007, 22, 687-689.	0.7	0
132	HbS and HbC associate with malaria transmission: Human genetics links to vaccinology?. Vaccine, 2010, 28, 6403.	3.8	0
133	Using agent-based simulation to understand populatation dynamics and coevolution in host-pathogen relationships. , 2015, , .		0
134	Doubling down on forensic twin studies. PLoS Genetics, 2018, 14, e1007831.	3.5	0
135	10.1023/A:1003512607608. , 2011, , .		0
136	Expanding human variation at PLOS Genetics. PLoS Genetics, 2022, 18, e1010070.	3.5	0