

Guillaume Lettre

List of Publications by Year in descending order

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Version: 2024-02-01

131
papers

31,119
citations

18465

62
h-index

14197

128
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143
all docs

143
docs citations

143
times ranked

38144
citing authors

#	ARTICLE	IF	CITATIONS
1	From GWAS variant to function: A study of \sim 148,000 variants for blood cell traits. <i>Human Genetics and Genomics Advances</i> , 2022, 3, 100063.	1.0	9
2	Transcriptome-wide association study in UK Biobank Europeans identifies associations with blood cell traits. <i>Human Molecular Genetics</i> , 2022, 31, 2333-2347.	1.4	6
3	Importance of genetic testing in unexplained cardiac arrest. <i>European Heart Journal</i> , 2022, 43, 3071-3081.	1.0	36
4	Cohort profile: genomic data for 26 622 individuals from the Canadian Longitudinal Study on Aging (CLSA). <i>BMJ Open</i> , 2022, 12, e059021.	0.8	17
5	One step closer to linking GWAS SNPs with the right genes. <i>Nature Genetics</i> , 2022, 54, 748-749.	9.4	4
6	Potential causal role of l-glutamine in sickle cell disease painful crises: A Mendelian randomization analysis. <i>Blood Cells, Molecules, and Diseases</i> , 2021, 86, 102504.	0.6	14
7	Motif-Raptor: a cell type-specific and transcription factor centric approach for post-GWAS prioritization of causal regulators. <i>Bioinformatics</i> , 2021, 37, 2103-2111.	1.8	5
8	Discovery and fine-mapping of height loci via high-density imputation of GWASs in individuals of African ancestry. <i>American Journal of Human Genetics</i> , 2021, 108, 564-582.	2.6	18
9	Whole-genome sequencing association analysis of quantitative red blood cell phenotypes: The NHLBI TOPMed program. <i>American Journal of Human Genetics</i> , 2021, 108, 874-893.	2.6	28
10	A <i>Grammastola spatulata</i> mechanotoxin-4 (GsMTx4)-sensitive cation channel mediates increased cation permeability in human hereditary spherocytosis of multiple genetic etiologies. <i>Haematologica</i> , 2021, 106, 2759-2762.	1.7	5
11	Multi-ethnic genome-wide association analyses of white blood cell and platelet traits in the Population Architecture using Genomics and Epidemiology (PAGE) study. <i>BMC Genomics</i> , 2021, 22, 432.	1.2	6
12	Transcriptomic Profiling of Canine Atrial Fibrillation Models After One Week of Sustained Arrhythmia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e009887.	2.1	6
13	Whole-genome sequencing in diverse subjects identifies genetic correlates of leukocyte traits: The NHLBI TOPMed program. <i>American Journal of Human Genetics</i> , 2021, 108, 1836-1851.	2.6	14
14	Clonal hematopoiesis in sickle cell disease. <i>Blood</i> , 2021, 138, 2148-2152.	0.6	29
15	Understanding the molecular events preceding and leading to atrial fibrillation. <i>Heart Rhythm</i> , 2021, 18, 2126-2127.	0.3	1
16	Shared genetic pathways contribute to risk of hypertrophic and dilated cardiomyopathies with opposite directions of effect. <i>Nature Genetics</i> , 2021, 53, 128-134.	9.4	155
17	Meta-analysis of up to 622,409 individuals identifies 40 novel smoking behaviour associated genetic loci. <i>Molecular Psychiatry</i> , 2020, 25, 2392-2409.	4.1	83
18	The Polygenic and Monogenic Basis of Blood Traits and Diseases. <i>Cell</i> , 2020, 182, 1214-1231.e11.	13.5	388

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19	Trans-ethnic and Ancestry-Specific Blood-Cell Genetics in 746,667 Individuals from 5 Global Populations. <i>Cell</i> , 2020, 182, 1198-1213.e14.	13.5	353
20	A genetic association study of heart failure: more evidence for the role of BAG3 in idiopathic dilated cardiomyopathy. <i>ESC Heart Failure</i> , 2020, 7, 4384-4389.	1.4	11
21	Blocking HbS Polymerization in SCD. <i>Cell</i> , 2020, 180, 819.	13.5	2
22	Integrative analysis of vascular endothelial cell genomic features identifies AIDA as a coronary artery disease candidate gene. <i>Genome Biology</i> , 2019, 20, 133.	3.8	26
23	Pleiotropic effects for Parkin and LRRK2 in leprosy type-1 reactions and Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15616-15624.	3.3	50
24	Validation of Genome-Wide Polygenic Risk Scores for Coronary Artery Disease in French Canadians. <i>Circulation Genomic and Precision Medicine</i> , 2019, 12, e002481.	1.6	59
25	Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. <i>Nature Genetics</i> , 2019, 51, 452-469.	9.4	89
26	Whole genome sequence association with E-selectin levels reveals loss-of-function variant in African Americans. <i>Human Molecular Genetics</i> , 2019, 28, 515-523.	1.4	15
27	Exome Chip Meta-analysis Fine Maps Causal Variants and Elucidates the Genetic Architecture of Rare Coding Variants in Smoking and Alcohol Use. <i>Biological Psychiatry</i> , 2019, 85, 946-955.	0.7	69
28	14q32 and let-7 microRNAs regulate transcriptional networks in fetal and adult human erythroblasts. <i>Human Molecular Genetics</i> , 2018, 27, 1411-1420.	1.4	25
29	Neuropilin-1 expression in adipose tissue macrophages protects against obesity and metabolic syndrome. <i>Science Immunology</i> , 2018, 3, .	5.6	41
30	The genetics of platelet count and volume in humans. <i>Platelets</i> , 2018, 29, 125-130.	1.1	44
31	Lp-PLA2, scavenger receptor class B type I gene (SCARB1) rs10846744 variant, and cardiovascular disease. <i>PLoS ONE</i> , 2018, 13, e0204352.	1.1	2
32	PHACTR1 splicing isoforms and eQTLs in atherosclerosis-relevant human cells. <i>BMC Medical Genetics</i> , 2018, 19, 97.	2.1	20
33	A common functional <i>PIEZO1</i> deletion allele associates with red blood cell density in sickle cell disease patients. <i>American Journal of Hematology</i> , 2018, 93, E362-E365.	2.0	15
34	Variants at the APOE/C1/C2/C4 Locus Modulate Cholesterol Efflux Capacity Independently of High-Density Lipoprotein Cholesterol. <i>Journal of the American Heart Association</i> , 2018, 7, e009545.	1.6	25
35	Common β -globin variants modify hematologic and other clinical phenotypes in sickle cell trait and disease. <i>PLoS Genetics</i> , 2018, 14, e1007293.	1.5	45
36	Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. <i>Nature Genetics</i> , 2018, 50, 26-41.	9.4	286

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37	Rare and low-frequency coding variants alter human adult height. <i>Nature</i> , 2017, 542, 186-190.	13.7	544
38	Variant-aware saturating mutagenesis using multiple Cas9 nucleases identifies regulatory elements at trait-associated loci. <i>Nature Genetics</i> , 2017, 49, 625-634.	9.4	96
39	Genome-wide association study of erythrocyte density in sickle cell disease patients. <i>Blood Cells, Molecules, and Diseases</i> , 2017, 65, 60-65.	0.6	13
40	Polygenic determinants in extremes of high-density lipoprotein cholesterol. <i>Journal of Lipid Research</i> , 2017, 58, 2162-2170.	2.0	49
41	The osteoarthritis and height GDF5 locus yields its secrets. <i>Nature Genetics</i> , 2017, 49, 1165-1166.	9.4	7
42	Human genetic variation alters CRISPR-Cas9 on- and off-targeting specificity at therapeutically implicated loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E11257-E11266.	3.3	96
43	Frameshift indels introduced by genome editing can lead to in-frame exon skipping. <i>PLoS ONE</i> , 2017, 12, e0178700.	1.1	77
44	Rare coding variants pinpoint genes that control human hematological traits. <i>PLoS Genetics</i> , 2017, 13, e1006925.	1.5	39
45	An erythroid-specific ATP2B4 enhancer mediates red blood cell hydration and malaria susceptibility. <i>Journal of Clinical Investigation</i> , 2017, 127, 3065-3074.	3.9	48
46	Whole-genome sequencing in French Canadians from Quebec. <i>Human Genetics</i> , 2016, 135, 1213-1221.	1.8	16
47	Exome Genotyping Identifies Pleiotropic Variants Associated with Red Blood Cell Traits. <i>American Journal of Human Genetics</i> , 2016, 99, 8-21.	2.6	60
48	Whole-Exome Sequencing Identifies Loci Associated with Blood Cell Traits and Reveals a Role for Alternative GF11B Splice Variants in Human Hematopoiesis. <i>American Journal of Human Genetics</i> , 2016, 99, 481-488.	2.6	45
49	Polygenic Versus Monogenic Causes of Hypercholesterolemia Ascertained Clinically. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2439-2445.	1.1	174
50	Fetal haemoglobin in sickle-cell disease: from genetic epidemiology to new therapeutic strategies. <i>Lancet, The</i> , 2016, 387, 2554-2564.	6.3	73
51	Platelet-Related Variants Identified by Exomechip Meta-analysis in 157,293 Individuals. <i>American Journal of Human Genetics</i> , 2016, 99, 40-55.	2.6	82
52	Large-Scale Exome-wide Association Analysis Identifies Loci for White Blood Cell Traits and Pleiotropy with Immune-Mediated Diseases. <i>American Journal of Human Genetics</i> , 2016, 99, 22-39.	2.6	50
53	Testing the role of predicted gene knockouts in human anthropometric trait variation. <i>Human Molecular Genetics</i> , 2016, 25, 2082-2092.	1.4	10
54	An Essential Erythroid-Specific Enhancer of ATP2B4 Associated with Red Blood Cell Traits and Malaria Susceptibility. <i>Blood</i> , 2016, 128, 1250-1250.	0.6	2

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55	Lower Methylation of the ANGPL2 Gene in Leukocytes from Post-Acute Coronary Syndrome Patients. PLoS ONE, 2016, 11, e0153920.	1.1	18
56	Validation of fatty acid intakes estimated by a food frequency questionnaire using erythrocyte fatty acid profiling in the Montreal Heart Institute Biobank. Journal of Human Nutrition and Dietetics, 2015, 28, 646-658.	1.3	18
57	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. PLoS Genetics, 2015, 11, e1005378.	1.5	331
58	Comparison of DNA methylation profiles in human fetal and adult red blood cell progenitors. Genome Medicine, 2015, 7, 1.	3.6	104
59	Rare variant association studies: considerations, challenges and opportunities. Genome Medicine, 2015, 7, 16.	3.6	176
60	Myocardial Infarction-Associated SNP at 6p24 Interferes With MEF2 Binding and Associates With PHACTR1 Expression Levels in Human Coronary Arteries. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1472-1479.	1.1	78
61	Small island, big genetic discoveries. Nature Genetics, 2015, 47, 1224-1225.	9.4	17
62	Crispr-Cas9 Saturating Mutagenesis Reveals an Achilles Heel in the BCL11A Erythroid Enhancer for Fetal Hemoglobin Induction (by Genome Editing). Blood, 2015, 126, 638-638.	0.6	5
63	Prospective Evaluation of Fetal Haemoglobin Induction in Maternal Erythrocytes: A Preliminary Analysis of a Cohort of 345 Parturients. Blood, 2015, 126, 3370-3370.	0.6	0
64	Lessons and Implications from Genome-Wide Association Studies (GWAS) Findings of Blood Cell Phenotypes. Genes, 2014, 5, 51-64.	1.0	12
65	Whole-exome imputation of sequence variants identified two novel alleles associated with adult body height in African Americans. Human Molecular Genetics, 2014, 23, 6607-6615.	1.4	14
66	Nonsense Mutations in BAG3 are Associated With Early-Onset Dilated Cardiomyopathy in French Canadians. Canadian Journal of Cardiology, 2014, 30, 1655-1661.	0.8	57
67	Association of Sickle Cell Trait With Chronic Kidney Disease and Albuminuria in African Americans. JAMA - Journal of the American Medical Association, 2014, 312, 2115.	3.8	167
68	Whole-Exome Sequencing Identifies Rare and Low-Frequency Coding Variants Associated with LDL Cholesterol. American Journal of Human Genetics, 2014, 94, 233-245.	2.6	193
69	A Variational Bayes Discrete Mixture Test for Rare Variant Association. Genetic Epidemiology, 2014, 38, 21-30.	0.6	12
70	Rare and low-frequency variants in human common diseases and other complex traits. Journal of Medical Genetics, 2014, 51, 705-714.	1.5	29
71	Defining the role of common variation in the genomic and biological architecture of adult human height. Nature Genetics, 2014, 46, 1173-1186.	9.4	1,818
72	Large multiethnic Candidate Gene Study for C-reactive protein levels: identification of a novel association at CD36 in African Americans. Human Genetics, 2014, 133, 985-995.	1.8	31

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73	Rare and low-frequency coding variants in CXCR2 and other genes are associated with hematological traits. <i>Nature Genetics</i> , 2014, 46, 629-634.	9.4	113
74	Strategies to fine-map genetic associations with lipid levels by combining epigenomic annotations and liver-specific transcription profiles. <i>Genomics</i> , 2014, 104, 105-112.	1.3	14
75	Trans-ethnic meta-analysis of white blood cell phenotypes. <i>Human Molecular Genetics</i> , 2014, 23, 6944-6960.	1.4	60
76	Association of Variants at BCL11A and HBS1L-MYB with Hemoglobin F and Hospitalization Rates among Sickle Cell Patients in Cameroon. <i>PLoS ONE</i> , 2014, 9, e92506.	1.1	80
77	Abstract 17913: Inhibition of CETP by Dalcatrapib Results in a Modest Increase in Cholesterol Efflux Capacity Associated With an Increase in Large HDL Particles, but Does Not Impact Carotid Intima-Media Thickness in a dal-PLAQUE-2 Substudy. <i>Circulation</i> , 2014, 130, .	1.6	0
78	Using height association studies to gain insights into human idiopathic short and syndromic stature phenotypes. <i>Pediatric Nephrology</i> , 2013, 28, 557-562.	0.9	6
79	Genome-wide Association Analysis of Blood-Pressure Traits in African-Ancestry Individuals Reveals Common Associated Genes in African and Non-African Populations. <i>American Journal of Human Genetics</i> , 2013, 93, 545-554.	2.6	189
80	An Erythroid Enhancer of <i>BCL11A</i> Subject to Genetic Variation Determines Fetal Hemoglobin Level. <i>Science</i> , 2013, 342, 253-257.	6.0	518
81	The non-synonymous polymorphism at position 114 of the WRN protein affects cholesterol efflux in vitro and correlates with cholesterol levels in vivo. <i>Experimental Gerontology</i> , 2013, 48, 533-538.	1.2	7
82	A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. <i>Nature Genetics</i> , 2013, 45, 690-696.	9.4	232
83	Deep Resequencing of GWAS Loci Identifies Rare Variants in CARD9, IL23R and RNF186 That Are Associated with Ulcerative Colitis. <i>PLoS Genetics</i> , 2013, 9, e1003723.	1.5	185
84	Genome-wide association analysis of red blood cell traits in African Americans: the COGENT Network. <i>Human Molecular Genetics</i> , 2013, 22, 2529-2538.	1.4	57
85	Fine-Mapping and Genome Editing Reveal An Essential Erythroid Enhancer At The HbF-Associated BCL11A Locus. <i>Blood</i> , 2013, 122, 437-437.	0.6	1
86	A Meta-Analysis and Genome-Wide Association Study of Platelet Count and Mean Platelet Volume in African Americans. <i>PLoS Genetics</i> , 2012, 8, e1002491.	1.5	97
87	The Search for Genetic Modifiers of Disease Severity in the $\hat{\text{A}}$ -Hemoglobinopathies. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a015032-a015032.	2.9	48
88	Pooled DNA Resequencing of 68 Myocardial Infarction Candidate Genes in French Canadians. <i>Circulation: Cardiovascular Genetics</i> , 2012, 5, 547-554.	5.1	10
89	Ultraconserved Elements in the Human Genome: Association and Transmission Analyses of Highly Constrained Single-Nucleotide Polymorphisms. <i>Genetics</i> , 2012, 192, 253-266.	1.2	17
90	FTO genotype is associated with phenotypic variability of body mass index. <i>Nature</i> , 2012, 490, 267-272.	13.7	383

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91	Imputation of Exome Sequence Variants into Population-Based Samples and Blood-Cell-Trait-Associated Loci in African Americans: NHLBI GO Exome Sequencing Project. <i>American Journal of Human Genetics</i> , 2012, 91, 794-808.	2.6	123
92	Meta-analysis of Dense Genecentric Association Studies Reveals Common and Uncommon Variants Associated with Height. <i>American Journal of Human Genetics</i> , 2012, 90, 1116-1117.	2.6	0
93	Multi-Ethnic Analysis of Lipid-Associated Loci: The NHLBI CARE Project. <i>PLoS ONE</i> , 2012, 7, e36473.	1.1	46
94	Deep resequencing of GWAS loci identifies independent rare variants associated with inflammatory bowel disease. <i>Nature Genetics</i> , 2011, 43, 1066-1073.	9.4	698
95	Large-scale association analysis identifies 13 new susceptibility loci for coronary artery disease. <i>Nature Genetics</i> , 2011, 43, 333-338.	9.4	1,685
96	Genome partitioning of genetic variation for complex traits using common SNPs. <i>Nature Genetics</i> , 2011, 43, 519-525.	9.4	834
97	Genomic inflation factors under polygenic inheritance. <i>European Journal of Human Genetics</i> , 2011, 19, 807-812.	1.4	460
98	Meta-analysis of Dense Genecentric Association Studies Reveals Common and Uncommon Variants Associated with Height. <i>American Journal of Human Genetics</i> , 2011, 88, 6-18.	2.6	122
99	Genome-wide Comparison of African-Ancestry Populations from CARE and Other Cohorts Reveals Signals of Natural Selection. <i>American Journal of Human Genetics</i> , 2011, 89, 368-381.	2.6	79
100	Genetic association analysis highlights new loci that modulate hematological trait variation in Caucasians and African Americans. <i>Human Genetics</i> , 2011, 129, 307-317.	1.8	81
101	Recent progress in the study of the genetics of height. <i>Human Genetics</i> , 2011, 129, 465-472.	1.8	73
102	Multiple Loci Are Associated with White Blood Cell Phenotypes. <i>PLoS Genetics</i> , 2011, 7, e1002113.	1.5	106
103	Enhanced Statistical Tests for GWAS in Admixed Populations: Assessment using African Americans from CARE and a Breast Cancer Consortium. <i>PLoS Genetics</i> , 2011, 7, e1001371.	1.5	110
104	Genome-Wide Association Study of White Blood Cell Count in 16,388 African Americans: the Continental Origins and Genetic Epidemiology Network (COGENT). <i>PLoS Genetics</i> , 2011, 7, e1002108.	1.5	133
105	Identification, Replication, and Fine-Mapping of Loci Associated with Adult Height in Individuals of African Ancestry. <i>PLoS Genetics</i> , 2011, 7, e1002298.	1.5	93
106	Genome-Wide Association Study of Coronary Heart Disease and Its Risk Factors in 8,090 African Americans: The NHLBI CARE Project. <i>PLoS Genetics</i> , 2011, 7, e1001300.	1.5	290
107	Association of Linear Growth Impairment in Pediatric Crohn's Disease and a Known Height Locus: A Pilot Study. <i>Annals of Human Genetics</i> , 2010, 74, 489-497.	0.3	24
108	Biological, clinical and population relevance of 95 loci for blood lipids. <i>Nature</i> , 2010, 466, 707-713.	13.7	3,249

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109	Hundreds of variants clustered in genomic loci and biological pathways affect human height. <i>Nature</i> , 2010, 467, 832-838.	13.7	1,789
110	Meta-analysis identifies 13 new loci associated with waist-hip ratio and reveals sexual dimorphism in the genetic basis of fat distribution. <i>Nature Genetics</i> , 2010, 42, 949-960.	9.4	836
111	Association analyses of 249,796 individuals reveal 18 new loci associated with body mass index. <i>Nature Genetics</i> , 2010, 42, 937-948.	9.4	2,634
112	Fine-mapping at three loci known to affect fetal hemoglobin levels explains additional genetic variation. <i>Nature Genetics</i> , 2010, 42, 1049-1051.	9.4	243
113	Modifier genes in Mendelian disorders: the example of hemoglobin disorders. <i>Annals of the New York Academy of Sciences</i> , 2010, 1214, 47-56.	1.8	27
114	Genome-wide association of anthropometric traits in African- and African-derived populations. <i>Human Molecular Genetics</i> , 2010, 19, 2725-2738.	1.4	90
115	Candidate Gene Association Resource (CARE). <i>Circulation: Cardiovascular Genetics</i> , 2010, 3, 267-275.	5.1	139
116	European Ancestry as a Risk Factor for Atrial Fibrillation in African Americans. <i>Circulation</i> , 2010, 122, 2009-2015.	1.6	219
117	Fine mapping of the association with obesity at the FTO locus in African-derived populations. <i>Human Molecular Genetics</i> , 2010, 19, 2907-2916.	1.4	82
118	Six new loci associated with body mass index highlight a neuronal influence on body weight regulation. <i>Nature Genetics</i> , 2009, 41, 25-34.	9.4	1,572
119	Genetic regulation of adult stature. <i>Current Opinion in Pediatrics</i> , 2009, 21, 515-522.	1.0	59
120	Identification of ten loci associated with height highlights new biological pathways in human growth. <i>Nature Genetics</i> , 2008, 40, 584-591.	9.4	537
121	Common variants in the GDF5-UQCC region are associated with variation in human height. <i>Nature Genetics</i> , 2008, 40, 198-203.	9.4	369
122	Genome-wide association study shows <i>BCL11A</i> associated with persistent fetal hemoglobin and amelioration of the phenotype of β^0 -thalassemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1620-1625.	3.3	561
123	DNA polymorphisms at the <i>BCL11A</i> , <i>HBS1L-MYB</i> , and β^0 -globin loci associate with fetal hemoglobin levels and pain crises in sickle cell disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11869-11874.	3.3	510
124	Autoimmune diseases: insights from genome-wide association studies. <i>Human Molecular Genetics</i> , 2008, 17, R116-R121.	1.4	275
125	Human Fetal Hemoglobin Expression Is Regulated by the Developmental Stage-Specific Repressor <i>BCL11A</i> . <i>Science</i> , 2008, 322, 1839-1842.	6.0	759
126	Genome-Wide Association Analysis Identifies Loci for Type 2 Diabetes and Triglyceride Levels. <i>Science</i> , 2007, 316, 1331-1336.	6.0	2,623

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127	Genetic model testing and statistical power in population-based association studies of quantitative traits. <i>Genetic Epidemiology</i> , 2007, 31, 358-362.	0.6	224
128	A common variant of HMGA2 is associated with adult and childhood height in the general population. <i>Nature Genetics</i> , 2007, 39, 1245-1250.	9.4	373
129	Common genetic variation in eight genes of the GH/IGF1 axis does not contribute to adult height variation. <i>Human Genetics</i> , 2007, 122, 129-139.	1.8	54
130	Developmental apoptosis in <i>C. elegans</i> : a complex CEDnario. <i>Nature Reviews Molecular Cell Biology</i> , 2006, 7, 97-108.	16.1	269
131	<i>C. elegans</i> GLA-3 is a novel component of the MAP kinase MPK-1 signaling pathway required for germ cell survival. <i>Genes and Development</i> , 2006, 20, 2279-2292.	2.7	53