

Daniel G Macarthur

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

64,253
citations

20036

63
h-index

12638

137
g-index

159
all docs

159
docs citations

159
times ranked

93528
citing authors

#	ARTICLE	IF	CITATIONS
1	Variant interpretation using population databases: Lessons from gnomAD. <i>Human Mutation</i> , 2022, 43, 1012-1030.	1.1	184
2	Mitochondrial DNA variation across 56,434 individuals in gnomAD. <i>Genome Research</i> , 2022, 32, 569-582.	2.4	59
3	Centers for Mendelian Genomics: A decade of facilitating gene discovery. <i>Genetics in Medicine</i> , 2022, 24, 784-797.	1.1	44
4	Whole-genome analysis of human embryonic stem cells enables rational line selection based on genetic variation. <i>Cell Stem Cell</i> , 2022, 29, 472-486.e7.	5.2	27
5	<i>seqr</i> : A web-based analysis and collaboration tool for rare disease genomics. <i>Human Mutation</i> , 2022, , .	1.1	31
6	Pathogenic deep intronic MTM1 variant activates a pseudo-exon encoding a nonsense codon resulting in severe X-linked myotubular myopathy. <i>European Journal of Human Genetics</i> , 2021, 29, 61-66.	1.4	10
7	WGS and RNA Studies Diagnose Noncoding <i>DMD</i> Variants in Males With High Creatine Kinase. <i>Neurology: Genetics</i> , 2021, 7, e554.	0.9	21
8	Variants in GNAI1 cause a syndrome associated with variable features including developmental delay, seizures, and hypotonia. <i>Genetics in Medicine</i> , 2021, 23, 881-887.	1.1	13
9	Novel variants in TUBA1A cause congenital fibrosis of the extraocular muscles with or without malformations of cortical brain development. <i>European Journal of Human Genetics</i> , 2021, 29, 816-826.	1.4	13
10	Population-scale tissue transcriptomics maps long non-coding RNAs to complex disease. <i>Cell</i> , 2021, 184, 2633-2648.e19.	13.5	94
11	Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes. <i>Nature Communications</i> , 2021, 12, 3505.	5.8	49
12	Leveraging supervised learning for functionally-informed fine-mapping of cis-eQTLs identifies an additional 20,913 putative causal eQTLs. <i>Nature Communications</i> , 2021, 12, 3394.	5.8	44
13	Addendum: The mutational constraint spectrum quantified from variation in 141,456 humans. <i>Nature</i> , 2021, 597, E3-E4.	13.7	45
14	From variant to function in human disease genetics. <i>Science</i> , 2021, 373, 1464-1468.	6.0	75
15	Autosomal recessive variants in TUBGCP2 alter the β -tubulin ring complex leading to neurodevelopmental disease. <i>Science</i> , 2021, 24, 101948.	1.9	6
16	Severe neurodevelopmental disease caused by a homozygous TLK2 variant. <i>European Journal of Human Genetics</i> , 2020, 28, 383-387.	1.4	6
17	Cohort Profile: East London Genes & Health (ELGH), a community-based population genomics and health study in British Bangladeshi and British Pakistani people. <i>International Journal of Epidemiology</i> , 2020, 49, 20-21i.	0.9	71
18	Recurrent <i>TTN</i> metatranscript-only c.39974â€“11T>G splice variant associated with autosomal recessive arthrogyriposis multiplex congenita and myopathy. <i>Human Mutation</i> , 2020, 41, 403-411.	1.1	28

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19	A brief history of human disease genetics. <i>Nature</i> , 2020, 577, 179-189.	13.7	441
20	A Quantitative Proteome Map of the Human Body. <i>Cell</i> , 2020, 183, 269-283.e19.	13.5	243
21	Mutations of the Transcriptional Corepressor ZMYM2 Cause Syndromic Urinary Tract Malformations. <i>American Journal of Human Genetics</i> , 2020, 107, 727-742.	2.6	25
22	Evaluating drug targets through human loss-of-function genetic variation. <i>Nature</i> , 2020, 581, 459-464.	13.7	115
23	The mutational constraint spectrum quantified from variation in 141,456 humans. <i>Nature</i> , 2020, 581, 434-443.	13.7	6,140
24	Characterising the loss-of-function impact of 5' UTR untranslated region variants in 15,708 individuals. <i>Nature Communications</i> , 2020, 11, 2523.	5.8	99
25	Landscape of multi-nucleotide variants in 125,748 human exomes and 15,708 genomes. <i>Nature Communications</i> , 2020, 11, 2539.	5.8	98
26	A structural variation reference for medical and population genetics. <i>Nature</i> , 2020, 581, 444-451.	13.7	614
27	Transcript expression-aware annotation improves rare variant interpretation. <i>Nature</i> , 2020, 581, 452-458.	13.7	142
28	The effect of LRRK2 loss-of-function variants in humans. <i>Nature Medicine</i> , 2020, 26, 869-877.	15.2	79
29	Sequential targeted exome sequencing of 1001 patients affected by unexplained limb-girdle weakness. <i>Genetics in Medicine</i> , 2020, 22, 1478-1488.	1.1	62
30	Expanding the disease phenotype of ADSSL1-associated myopathy in non-Korean patients. <i>Neuromuscular Disorders</i> , 2020, 30, 310-314.	0.3	12
31	The genetic and clinical landscape of nanophthalmos and posterior microphthalmos in an Australian cohort. <i>Clinical Genetics</i> , 2020, 97, 764-769.	1.0	17
32	Characterising a healthy adult with a rare HAO1 knockout to support a therapeutic strategy for primary hyperoxaluria. <i>ELife</i> , 2020, 9, .	2.8	45
33	Contribution of noncoding pathogenic variants to RCGRIP1-mediated inherited retinal degeneration. <i>Genetics in Medicine</i> , 2019, 21, 694-704.	1.1	27
34	Pathogenic Abnormal Splicing Due to Intronic Deletions that Induce Biophysical Space Constraint for Spliceosome Assembly. <i>American Journal of Human Genetics</i> , 2019, 105, 573-587.	2.6	25
35	Genetic regulatory variation in populations informs transcriptome analysis in rare disease. <i>Science</i> , 2019, 366, 351-356.	6.0	99
36	Identification of a Novel Deep Intronic Mutation in CAPN3 Presenting a Promising Target for Therapeutic Splice Modulation. <i>Journal of Neuromuscular Diseases</i> , 2019, 6, 475-483.	1.1	6

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37	Recessive DES cardio/myopathy without myofibrillar aggregates: intronic splice variant silences one allele leaving only missense L190P-desmin. <i>European Journal of Human Genetics</i> , 2019, 27, 1267-1273.	1.4	14
38	Resolving the full spectrum of human genome variation using Linked-Reads. <i>Genome Research</i> , 2019, 29, 635-645.	2.4	182
39	Using High-Resolution Variant Frequencies Empowers Clinical Genome Interpretation and Enables Investigation of Genetic Architecture. <i>American Journal of Human Genetics</i> , 2019, 104, 187-190.	2.6	15
40	Reply to "Selective effects of heterozygous protein-truncating variants". <i>Nature Genetics</i> , 2019, 51, 3-4.	9.4	6
41	Insights into genetics, human biology and disease gleaned from family based genomic studies. <i>Genetics in Medicine</i> , 2019, 21, 798-812.	1.1	161
42	Extending the clinical and mutational spectrum of <i>TRIM32</i> -related myopathies in a non-Hutterite population. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 490-493.	0.9	11
43	A recurrent <i>COL6A1</i> pseudoexon insertion causes muscular dystrophy and is effectively targeted by splice-correction therapies. <i>JCI Insight</i> , 2019, 4, .	2.3	33
44	Quantitative analysis of population-scale family trees with millions of relatives. <i>Science</i> , 2018, 360, 171-175.	6.0	157
45	Congenital Titinopathy: Comprehensive characterization and pathogenic insights. <i>Annals of Neurology</i> , 2018, 83, 1105-1124.	2.8	93
46	Nemaline myopathy and distal arthrogyrosis associated with an autosomal recessive <i>TNNT3</i> splice variant. <i>Human Mutation</i> , 2018, 39, 383-388.	1.1	48
47	<i>MEGF10</i> related myopathies: A new case with adult onset disease with prominent respiratory failure and review of reported phenotypes. <i>Neuromuscular Disorders</i> , 2018, 28, 48-53.	0.3	13
48	Limb girdle muscular dystrophy due to mutations in <i>POMT2</i> . <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, 506-512.	0.9	21
49	The Genetic Landscape of Diamond-Blackfan Anemia. <i>American Journal of Human Genetics</i> , 2018, 103, 930-947.	2.6	184
50	A whole-genome sequence study identifies genetic risk factors for neuromyelitis optica. <i>Nature Communications</i> , 2018, 9, 1929.	5.8	73
51	Quantifying the Impact of Rare and Ultra-rare Coding Variation across the Phenotypic Spectrum. <i>American Journal of Human Genetics</i> , 2018, 102, 1204-1211.	2.6	102
52	Base-specific mutational intolerance near splice sites clarifies the role of nonessential splice nucleotides. <i>Genome Research</i> , 2018, 28, 968-974.	2.4	41
53	<i>GAPVD1</i> and <i>ANKFY1</i> Mutations Implicate <i>RAB5</i> Regulation in Nephrotic Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2123-2138.	3.0	42
54	Detection of variants in dystroglycanopathy-associated genes through the application of targeted whole-exome sequencing analysis to a large cohort of patients with unexplained limb-girdle muscle weakness. <i>Skeletal Muscle</i> , 2018, 8, 23.	1.9	40

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55	Whole-Exome Sequencing Identifies Causative Mutations in Families with Congenital Anomalies of the Kidney and Urinary Tract. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2348-2361.	3.0	147
56	STRetch: detecting and discovering pathogenic short tandem repeat expansions. <i>Genome Biology</i> , 2018, 19, 121.	3.8	117
57	Insights into the genetic epidemiology of Crohn's and rare diseases in the Ashkenazi Jewish population. <i>PLoS Genetics</i> , 2018, 14, e1007329.	1.5	66
58	A novel compound heterozygous mutation in the POMK gene causing limb-girdle muscular dystrophy-dystroglycanopathy in a sib pair. <i>Neuromuscular Disorders</i> , 2018, 28, 614-618.	0.3	11
59	A synthetic-diploid benchmark for accurate variant-calling evaluation. <i>Nature Methods</i> , 2018, 15, 595-597.	9.0	154
60	SMCHD1 mutations associated with a rare muscular dystrophy can also cause isolated arhinia and Bosma arhinia microphthalmia syndrome. <i>Nature Genetics</i> , 2017, 49, 238-248.	9.4	131
61	Human disease genomics: from variants to biology. <i>Genome Biology</i> , 2017, 18, 20.	3.8	23
62	The ExAC browser: displaying reference data information from over 60 000 exomes. <i>Nucleic Acids Research</i> , 2017, 45, D840-D845.	6.5	587
63	Pathogenic <i>ASXL1</i> somatic variants in reference databases complicate germline variant interpretation for Bohring-Opitz Syndrome. <i>Human Mutation</i> , 2017, 38, 517-523.	1.1	49
64	Refining the role of de novo protein-truncating variants in neurodevelopmental disorders by using population reference samples. <i>Nature Genetics</i> , 2017, 49, 504-510.	9.4	298
65	Human knockouts and phenotypic analysis in a cohort with a high rate of consanguinity. <i>Nature</i> , 2017, 544, 235-239.	13.7	292
66	Improving genetic diagnosis in Mendelian disease with transcriptome sequencing. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	516
67	Using high-resolution variant frequencies to empower clinical genome interpretation. <i>Genetics in Medicine</i> , 2017, 19, 1151-1158.	1.1	355
68	Estimating the selective effects of heterozygous protein-truncating variants from human exome data. <i>Nature Genetics</i> , 2017, 49, 806-810.	9.4	157
69	Bedside Back to Bench: Building Bridges between Basic and Clinical Genomic Research. <i>Cell</i> , 2017, 169, 6-12.	13.5	103
70	A novel recessive TTN founder variant is a common cause of distal myopathy in the Serbian population. <i>European Journal of Human Genetics</i> , 2017, 25, 572-581.	1.4	18
71	Landscape of X chromosome inactivation across human tissues. <i>Nature</i> , 2017, 550, 244-248.	13.7	764
72	A Loss-of-Function Splice Acceptor Variant in <i>IGF2</i> Is Protective for Type 2 Diabetes. <i>Diabetes</i> , 2017, 66, 2903-2914.	0.3	52

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73	Using ALoFT to determine the impact of putative loss-of-function variants in protein-coding genes. <i>Nature Communications</i> , 2017, 8, 382.	5.8	40
74	A "second truncation"™ in TTN causes early onset recessive muscular dystrophy. <i>Neuromuscular Disorders</i> , 2017, 27, 1009-1017.	0.3	18
75	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
76	Large-scale GWAS identifies multiple loci for hand grip strength providing biological insights into muscular fitness. <i>Nature Communications</i> , 2017, 8, 16015.	5.8	149
77	Cost-effectiveness of massively parallel sequencing for diagnosis of paediatric muscle diseases. <i>Npj Genomic Medicine</i> , 2017, 2, .	1.7	67
78	Reassessment of Mendelian gene pathogenicity using 7,855 cardiomyopathy cases and 60,706 reference samples. <i>Genetics in Medicine</i> , 2017, 19, 192-203.	1.1	585
79	Estimated disease incidence of RAG1/2 mutations: A case report and querying the Exome Aggregation Consortium. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 690-692.e3.	1.5	13
80	Exome sequences versus sequential gene testing in the UK highly specialised Service for Limb Girdle Muscular Dystrophy. <i>Orphanet Journal of Rare Diseases</i> , 2017, 12, 151.	1.2	44
81	Identification of GAA variants through whole exome sequencing targeted to a cohort of 606 patients with unexplained limb-girdle muscle weakness. <i>Orphanet Journal of Rare Diseases</i> , 2017, 12, 173.	1.2	21
82	ClinVar data parsing. <i>Wellcome Open Research</i> , 2017, 2, 33.	0.9	19
83	TOR1AIP1 as a cause of cardiac failure and recessive limb-girdle muscular dystrophy. <i>Neuromuscular Disorders</i> , 2016, 26, 500-503.	0.3	38
84	Superheroes of disease resistance. <i>Nature Biotechnology</i> , 2016, 34, 512-513.	9.4	4
85	Variants in <i>SLC18A3</i> , vesicular acetylcholine transporter, cause congenital myasthenic syndrome. <i>Neurology</i> , 2016, 87, 1442-1448.	1.5	46
86	Variants in the Oxidoreductase PYROXD1 Cause Early-Onset Myopathy with Internalized Nuclei and Myofibrillar Disorganization. <i>American Journal of Human Genetics</i> , 2016, 99, 1086-1105.	2.6	45
87	RNA-seq analysis for the diagnosis of muscular dystrophy. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 55-60.	1.7	73
88	De Novo Mutations in SON Disrupt RNA Splicing of Genes Essential for Brain Development and Metabolism, Causing an Intellectual-Disability Syndrome. <i>American Journal of Human Genetics</i> , 2016, 99, 711-719.	2.6	81
89	Analysis of protein-coding genetic variation in 60,706 humans. <i>Nature</i> , 2016, 536, 285-291.	13.7	9,051
90	Patterns of genic intolerance of rare copy number variation in 59,898 human exomes. <i>Nature Genetics</i> , 2016, 48, 1107-1111.	9.4	167

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91	Publicly Available Data Provide Evidence against NR1H3 R415Q Causing Multiple Sclerosis. <i>Neuron</i> , 2016, 92, 336-338.	3.8	21
92	High-throughput discovery of novel developmental phenotypes. <i>Nature</i> , 2016, 537, 508-514.	13.7	1,001
93	Quantifying unobserved protein-coding variants in human populations provides a roadmap for large-scale sequencing projects. <i>Nature Communications</i> , 2016, 7, 13293.	5.8	35
94	Diagnosis and etiology of congenital muscular dystrophy: We are halfway there. <i>Annals of Neurology</i> , 2016, 80, 101-111.	2.8	57
95	Quantifying prion disease penetrance using large population control cohorts. <i>Science Translational Medicine</i> , 2016, 8, 322ra9.	5.8	289
96	Health and population effects of rare gene knockouts in adult humans with related parents. <i>Science</i> , 2016, 352, 474-477.	6.0	272
97	Prominent scapulae mimicking an inherited myopathy expands the phenotype of CHD7-related disease. <i>European Journal of Human Genetics</i> , 2016, 24, 1216-1219.	1.4	2
98	Mutations in <i>HSPB8</i> causing a new phenotype of distal myopathy and motor neuropathy. <i>Neurology</i> , 2016, 86, 391-398.	1.5	107
99	Analysis of the <i>ACTN3</i> heterozygous genotype suggests that \pm -actinin-3 controls sarcomeric composition and muscle function in a dose-dependent fashion. <i>Human Molecular Genetics</i> , 2016, 25, 866-877.	1.4	35
100	Concept and design of a genome-wide association genotyping array tailored for transplantation-specific studies. <i>Genome Medicine</i> , 2015, 7, 90.	3.6	49
101	The landscape of genomic imprinting across diverse adult human tissues. <i>Genome Research</i> , 2015, 25, 927-936.	2.4	216
102	Expanding the phenotype of GMPPB mutations. <i>Brain</i> , 2015, 138, 836-844.	3.7	54
103	The Genotype-Tissue Expression (GTEx) pilot analysis: Multitissue gene regulation in humans. <i>Science</i> , 2015, 348, 648-660.	6.0	4,659
104	Effect of predicted protein-truncating genetic variants on the human transcriptome. <i>Science</i> , 2015, 348, 666-669.	6.0	252
105	A global reference for human genetic variation. <i>Nature</i> , 2015, 526, 68-74.	13.7	13,998
106	Use of Whole-Exome Sequencing for Diagnosis of Limb-Girdle Muscular Dystrophy. <i>JAMA Neurology</i> , 2015, 72, 1424.	4.5	164
107	A respiratory chain controlled signal transduction cascade in the mitochondrial intermembrane space mediates hydrogen peroxide signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5679-88.	3.3	58
108	Mutations in <i>PIGY</i> : expanding the phenotype of inherited glycosylphosphatidylinositol deficiencies. <i>Human Molecular Genetics</i> , 2015, 24, 6146-6159.	1.4	64

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109	The UK10K project identifies rare variants in health and disease. <i>Nature</i> , 2015, 526, 82-90.	13.7	1,014
110	The Challenge of Next Generation Sequencing in the Context of Neuromuscular Diseases. <i>Journal of Neuromuscular Diseases</i> , 2014, 1, 135-149.	1.1	25
111	Distribution and Medical Impact of Loss-of-Function Variants in the Finnish Founder Population. <i>PLoS Genetics</i> , 2014, 10, e1004494.	1.5	351
112	Allelic Expression of Deleterious Protein-Coding Variants across Human Tissues. <i>PLoS Genetics</i> , 2014, 10, e1004304.	1.5	60
113	Association of a Low-Frequency Variant in <i>HNF1A</i> With Type 2 Diabetes in a Latino Population. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 2305.	3.8	230
114	A framework for the interpretation of de novo mutation in human disease. <i>Nature Genetics</i> , 2014, 46, 944-950.	9.4	943
115	Whole exome sequencing identifies three recessive <i>FIG4</i> mutations in an apparently dominant pedigree with Charcot-Marie-Tooth disease. <i>Neuromuscular Disorders</i> , 2014, 24, 666-670.	0.3	17
116	Biallelic Variants in <i>TTL5</i> , Encoding a Tubulin Glutamylase, Cause Retinal Dystrophy. <i>American Journal of Human Genetics</i> , 2014, 94, 760-769.	2.6	67
117	The Challenge of Next Generation Sequencing in the Context of Neuromuscular Diseases. <i>Journal of Neuromuscular Diseases</i> , 2014, 1, 135-149.	1.1	10
118	Integrative Annotation of Variants from 1092 Humans: Application to Cancer Genomics. <i>Science</i> , 2013, 342, 1235587.	6.0	341
119	Transcriptome and genome sequencing uncovers functional variation in humans. <i>Nature</i> , 2013, 501, 506-511.	13.7	1,857
120	The origin, evolution, and functional impact of short insertion-deletion variants identified in 179 human genomes. <i>Genome Research</i> , 2013, 23, 749-761.	2.4	206
121	The Genotype-Tissue Expression (GTEx) project. <i>Nature Genetics</i> , 2013, 45, 580-585.	9.4	6,815
122	Face up to false positives. <i>Nature</i> , 2012, 487, 427-428.	13.7	48
123	Challenges in clinical genomics. <i>Genome Medicine</i> , 2012, 4, 43.	3.6	5
124	A Systematic Survey of Loss-of-Function Variants in Human Protein-Coding Genes. <i>Science</i> , 2012, 335, 823-828.	6.0	1,095
125	The uncertain road towards genomic medicine. <i>Trends in Genetics</i> , 2012, 28, 303-305.	2.9	8
126	Origins and functional impact of copy number variation in the human genome. <i>Nature</i> , 2010, 464, 704-712.	13.7	1,721

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127	Loss-of-function variants in the genomes of healthy humans. <i>Human Molecular Genetics</i> , 2010, 19, R125-R130.	1.4	172
128	Human Y Chromosome Base-Substitution Mutation Rate Measured by Direct Sequencing in a Deep-Rooting Pedigree. <i>Current Biology</i> , 2009, 19, 1453-1457.	1.8	180
129	An Actn3 knockout mouse provides mechanistic insights into the association between α -actinin-3 deficiency and human athletic performance. <i>Human Molecular Genetics</i> , 2008, 17, 1076-1086.	1.4	266
130	ACTN3. <i>Exercise and Sport Sciences Reviews</i> , 2007, 35, 30-34.	1.6	118
131	Loss of ACTN3 gene function alters mouse muscle metabolism and shows evidence of positive selection in humans. <i>Nature Genetics</i> , 2007, 39, 1261-1265.	9.4	278
132	Genes and human elite athletic performance. <i>Human Genetics</i> , 2005, 116, 331-339.	1.8	171
133	A gene for speed? The evolution and function of α -actinin-3. <i>BioEssays</i> , 2004, 26, 786-795.	1.2	197