Rex L Chisholm

List of Publications by Citations

126 papers	13,877 citations	53 h-index	117 g-index
135 ext. papers	17,907 ext. citations	12.3 avg, IF	7.92 L-index

#	Paper	IF	Citations
126	The Gene Ontology Resource: 20 years and still GOing strong. *Nucleic Acids Research*, **2019**, 47, D330-D338	20.1	1962
125	Expansion of the Gene Ontology knowledgebase and resources. *Nucleic Acids Research*, **2017**, 45, D331-D338	20.1	1258
124	The genome of the social amoeba Dictyostelium discoideum. *Nature*, **2005**, 435, 43-57	50.4	1042
123	The Gene Ontology (GO) project in 2006. *Nucleic Acids Research*, **2006**, 34, D322-6	20.1	794
122	Systematic comparison of phenome-wide association study of electronic medical record data and genome-wide association study data. *Nature Biotechnology*, **2013**, 31, 1102-10	44.5	555
121	The eMERGE Network: a consortium of biorepositories linked to electronic medical records data for conducting genomic studies. *BMC Medical Genomics*, **2011**, 4, 13	3.7	505
120	The Gene Ontology resource: enriching a GOld mine. *Nucleic Acids Research*, **2021**, 49, D325-D334	20.1	494
119	The Electronic Medical Records and Genomics (eMERGE) Network: past, present, and future. *Genetics in Medicine*, **2013**, 15, 761-71	8.1	484
118	Implementing genomic medicine in the clinic: the future is here. *Genetics in Medicine*, **2013**, 15, 258-67	8.1	385
117	Electronic medical records for genetic research: results of the eMERGE consortium. *Science Translational Medicine*, **2011**, 3, 79re1	17.5	258
116	Use of diverse electronic medical record systems to identify genetic risk for type 2 diabetes within a genome-wide association study. *Journal of the American Medical Informatics Association: JAMIA*, **2012**, 19, 212-8	8.6	216
115	Variants near FOXE1 are associated with hypothyroidism and other thyroid conditions: using electronic medical records for genome- and phenome-wide studies. *American Journal of Human Genetics*, **2011**, 89, 529-42	11	199
114	Prepublication data sharing. *Nature*, **2009**, 461, 168-70	50.4	197
113	Design and anticipated outcomes of the eMERGE-PGx project: a multicenter pilot for preemptive pharmacogenomics in electronic health record systems. *Clinical Pharmacology and Therapeutics*, **2014**, 96, 482-9	6.1	180
112	The two alpha-tubulin genes of Chlamydomonas reinhardi code for slightly different proteins. *Molecular and Cellular Biology*, **1985**, 5, 2389-98	4.8	180
111	Annotating the human genome with Disease Ontology. *BMC Genomics*, **2009**, 10 Suppl 1, S6	4.5	175
110	The phenotypic legacy of admixture between modern humans and Neandertals. *Science*, **2016**, 351, 737-41	33.3	172

109	Protocols for growth and development of Dictyostelium discoideum. *Nature Protocols*, **2007**, 2, 1307-16	18.8	155
108	Mechanism of sequential induction of cell-type specific mRNAs in Dictyostelium differentiation. *Nature*, **1984**, 310, 67-9	50.4	142
107	Insights into morphogenesis from a simple developmental system. *Nature Reviews Molecular Cell Biology*, **2004**, 5, 531-41	48.7	135
106	The Gene Ontology's Reference Genome Project: a unified framework for functional annotation across species. *PLoS Computational Biology*, **2009**, 5, e1000431	5	134
105	Genome- and phenome-wide analyses of cardiac conduction identifies markers of arrhythmia risk. *Circulation*, **2013**, 127, 1377-85	16.7	133
104	Comparative genomics of the social amoebae Dictyostelium discoideum and Dictyostelium purpureum. *Genome Biology*, **2011**, 12, R20	18.3	117
103	Quality, quantity and harmony: the DataSHaPER approach to integrating data across bioclinical studies. *International Journal of Epidemiology*, **2010**, 39, 1383-93	7.8	117
102	Association of Arrhythmia-Related Genetic Variants With Phenotypes Documented in Electronic Medical Records. *JAMA - Journal of the American Medical Association*, **2016**, 315, 47-57	27.4	115
101	Toward a roadmap in global biobanking for health. *European Journal of Human Genetics*, **2012**, 20, 1105-11	5.3	113
100	Global implementation of genomic medicine: We are not alone. *Science Translational Medicine*, **2015**, 7, 290ps13	17.5	112
99	Genetic variation among 82 pharmacogenes: The PGRNseq data from the eMERGE network. *Clinical Pharmacology and Therapeutics*, **2016**, 100, 160-9	6.1	110
98	Assessing the understanding of biobank participants. *American Journal of Medical Genetics, Part A*, **2009**, 149A, 188-98	2.5	107
97	A genome- and phenome-wide association study to identify genetic variants influencing platelet count and volume and their pleiotropic effects. *Human Genetics*, **2014**, 133, 95-109	6.3	104
96	A fluorescent resonant energy transfer-based biosensor reveals transient and regional myosin light chain kinase activation in lamella and cleavage furrows. *Journal of Cell Biology*, **2002**, 156, 543-53	7.3	102
95	One stop shop for everything Dictyostelium: dictyBase and the Dicty Stock Center in 2012. *Methods in Molecular Biology*, **2013**, 983, 59-92	1.4	91
94	SadA, a novel adhesion receptor in Dictyostelium. *Journal of Cell Biology*, **2002**, 159, 1109-19	7.3	91
93	dictyBase, the model organism database for Dictyostelium discoideum. *Nucleic Acids Research*, **2006**, 34, D423-7	20.1	89
92	A type III intermediate filament gene is expressed in mature neurons. *Neuron*, **1988**, 1, 395-401	13.9	88

91	Transformation of Dictyostelium discoideum with plasmid DNA. *Nature Protocols*, **2007**, 2, 1317-24	18.8	87
90	Expression of a myosin regulatory light chain phosphorylation site mutant complements the cytokinesis and developmental defects of Dictyostelium RMLC null cells. *Journal of Cell Biology*, **1994**, 127, 1945-55	7.3	86
89	Dynein intermediate chain mediated dynein-dynactin interaction is required for interphase microtubule organization and centrosome replication and separation in Dictyostelium. *Journal of Cell Biology*, **1999**, 147, 1261-74	7.3	83
88	Bedside Back to Bench: Building Bridges between Basic and Clinical Genomic Research. *Cell*, **2017**, 169, 6-12	56.2	81
87	Targeted disruption of the Dictyostelium RMLC gene produces cells defective in cytokinesis and development. *Journal of Cell Biology*, **1994**, 127, 1933-44	7.3	80
86	Cytoplasmic dynein-associated structures move bidirectionallyin vivo. *Journal of Cell Science*, **2002**, 115, 1453-1460	5.3	80
85	DictyBase 2013: integrating multiple Dictyostelid species. *Nucleic Acids Research*, **2013**, 41, D676-83	20.1	77
84	Cytoplasmic dynein-associated structures move bidirectionally in vivo. *Journal of Cell Science*, **2002**, 115, 1453-60	5.3	77
83	dictyBase: a new Dictyostelium discoideum genome database. *Nucleic Acids Research*, **2004**, 32, D332-3	20.1	72
82	The Dictyostelium essential light chain is required for myosin function. *Cell*, **1992**, 69, 951-62	56.2	69
81	dictyBase--a Dictyostelium bioinformatics resource update. *Nucleic Acids Research*, **2009**, 37, D515-9	20.1	64
80	Harmonizing Clinical Sequencing and Interpretation for the eMERGE III Network. *American Journal of Human Genetics*, **2019**, 105, 588-605	11	63
79	Research Directions in the Clinical Implementation of Pharmacogenomics: An Overview of US Programs and Projects. *Clinical Pharmacology and Therapeutics*, **2018**, 103, 778-786	6.1	63
78	Genomic cloud computing: legal and ethical points to consider. *European Journal of Human Genetics* , **2015**, 23, 1271-8	5.3	62
77	Interaction mapping of a dynein heavy chain. Identification of dimerization and intermediate-chain binding domains. *Journal of Biological Chemistry*, **1999**, 274, 15447-53	5.4	59
76	Targeted disruption of the Dictyostelium myosin essential light chain gene produces cells defective in cytokinesis and morphogenesis. *Journal of Cell Science*, **1995**, 108, 3207-3218	5.3	54
75	Phenome-wide association studies demonstrating pleiotropy of genetic variants within FTO with and without adjustment for body mass index. *Frontiers in Genetics*, **2014**, 5, 250	4.5	53
74	Complement receptor 1 gene variants are associated with erythrocyte sedimentation rate. *American Journal of Human Genetics*, **2011**, 89, 131-8	11	51

73	cDNA cloning of human myeloperoxidase: decrease in myeloperoxidase mRNA upon induction of HL-60 cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 2057-61	11.5	45
72	Characterizing genetic variants for clinical action. *American Journal of Medical Genetics, Part C: Seminars in Medical Genetics*, **2014**, 166C, 93-104	3.1	41
71	Data Safe Havens in health research and healthcare. *Bioinformatics*, **2015**, 31, 3241-8	7.2	41
70	Translocation and rearrangement of myeloperoxidase gene in acute promyelocytic leukemia. *Science*, **1988**, 240, 790-2	33.3	41
69	Dictyostelium discoideum myosin: isolation and characterization of cDNAs encoding the essential light chain. *Molecular and Cellular Biology*, **1988**, 8, 794-801	4.8	41
68	Isolation of cDNAs encoding desmosomal plaque proteins: evidence that bovine desmoplakins I and II are derived from two mRNAs and a single gene. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 2613-7	11.5	40
67	A repetitive Dictyostelium gene family that is induced during differentiation and by heat shock. *Cell* , **1983**, 34, 997-1005	56.2	40
66	High density GWAS for LDL cholesterol in African Americans using electronic medical records reveals a strong protective variant in APOE. *Clinical and Translational Science*, **2012**, 5, 394-9	4.9	38
65	A physical gene map of the bacteriophage P22 late region: genetic analysis of cloned fragments of P22 DNA. *Virology*, **1980**, 102, 172-89	3.6	38
64	A genome-wide association study identifies variants in KCNIP4 associated with ACE inhibitor-induced cough. *Pharmacogenomics Journal*, **2016**, 16, 231-7	3.5	37
63	During multicellular migration, myosin ii serves a structural role independent of its motor function. *Developmental Biology*, **2001**, 232, 255-64	3.1	37
62	Isolation and sequence determination of a cDNA clone for rat peroxisomal urate oxidase: liver-specific expression in the rat. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 9081-5	11.5	37
61	dictyBase update 2011: web 2.0 functionality and the initial steps towards a genome portal for the Amoebozoa. *Nucleic Acids Research*, **2011**, 39, D620-4	20.1	36
60	Apolipoprotein L1 Variants and Blood Pressure Traits in African Americans. *Journal of the American College of Cardiology*, **2017**, 69, 1564-1574	15.1	32
59	An anatomy ontology to represent biological knowledge in Dictyostelium discoideum. *BMC Genomics*, **2008**, 9, 130	4.5	32
58	The eMERGE genotype set of 83,717 subjects imputed to ~40 million variants genome wide and association with the herpes zoster medical record phenotype. *Genetic Epidemiology*, **2019**, 43, 63-81	2.6	32
57	Opportunities, resources, and techniques for implementing genomics in clinical care. *Lancet, The*, **2019**, 394, 511-520	40	30
56	Genetic variants associated with serum thyroid stimulating hormone (TSH) levels in European Americans and African Americans from the eMERGE Network. *PLoS ONE*, **2014**, 9, e111301	3.7	28

55	Simvastatin modulates angiotensin II signaling pathway by preventing Rac1-mediated upregulation of p27. *Journal of the American Society of Nephrology: JASN*, **2004**, 15, 1711-20	12.7	27
54	The significance of varying SRBC/lymphocyte ratio in T cell rosette formation. *Journal of Immunology*, **1976**, 116, 1397-9	5.3	27
53	Generalization of variants identified by genome-wide association studies for electrocardiographic traits in African Americans. *Annals of Human Genetics*, **2013**, 77, 321-32	2.2	26
52	Phosphorylation of the myosin regulatory light chain plays a role in motility and polarity during Dictyostelium chemotaxis. *Journal of Cell Science*, **2002**, 115, 1733-47	5.3	26
51	Substitution mutations in the myosin essential light chain lead to reduced actin-activated ATPase activity despite stoichiometric binding to the heavy chain. *Journal of Biological Chemistry*, **1997**, 272, 4522-7	5.4	25
50	Dictyostelium discoideum myosin: isolation and characterization of cDNAs encoding the regulatory light chain. *Molecular and Cellular Biology*, **1989**, 9, 3073-80	4.8	25
49	Frequency of genomic secondary findings among 21,915 eMERGE network participants. *Genetics in Medicine*, **2020**, 22, 1470-1477	8.1	23
48	dictyBase 2015: Expanding data and annotations in a new software environment. *Genesis*, **2015**, 53, 523-534	3.4	23
47	Genome-wide study of resistant hypertension identified from electronic health records. *PLoS ONE*, **2017**, 12, e0171745	3.7	23
46	A P3G generic access agreement for population genomic studies. *Nature Biotechnology*, **2013**, 31, 384-5	44.5	21
45	The role of myosin I and II in cell motility. *Cancer and Metastasis Reviews*, **1992**, 11, 79-91	9.6	20
44	Superinduction of the Dictyostelium discoideum cell surface cAMP receptor by pulses of cAMP. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 1030-4	11.5	20
43	Nonmuscle myosin IIA with a GFP fused to the N-terminus of the regulatory light chain is regulated normally. *Journal of Muscle Research and Cell Motility*, **2010**, 31, 163-70	3.5	19
42	Regulation of cytokinesis. *Cellular and Molecular Life Sciences*, **1999**, 55, 108-20	10.3	19
41	A Polygenic and Phenotypic Risk Prediction for Polycystic Ovary Syndrome Evaluated by Phenome-Wide Association Studies. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	17
40	A reliable general purpose method for extracting genomic DNA from Dictyostelium cells. *Nature Protocols*, **2007**, 2, 1325-8	18.8	16
39	Expression and organization of BP74, a cyclic AMP-regulated gene expressed during Dictyostelium discoideum development. *Molecular and Cellular Biology*, **1989**, 9, 4170-8	4.8	16
38	Dictyostelium discoideum essential myosin light chain: gene structure and characterization. *Cytoskeleton*, **1991**, 20, 83-94		15

37	dictyBase and the Dicty Stock Center. *Methods in Molecular Biology*, **2006**, 346, 51-74	1.4	14
36	Molecular motors and membrane traffic in Dictyostelium. *Biochimica Et Biophysica Acta - General Subjects*, **2001**, 1525, 234-44	4	12
35	An ancillary genomics system to support the return of pharmacogenomic results. *Journal of the American Medical Informatics Association: JAMIA*, **2019**, 26, 306-310	8.6	12
34	Admixture mapping and subsequent fine-mapping suggests a biologically relevant and novel association on chromosome 11 for type 2 diabetes in African Americans. *PLoS ONE*, **2014**, 9, e86931	3.7	11
33	The effect of caffeine, adenosine, and buffer ionic composition on the induction of cell-surface cAMP binding during starvation of Dictyostelium discoideum. *Genesis*, **1988**, 9, 293-301		11
32	Different mRNAs have different nuclear transit times in Dictyostelium discoideum aggregates. *Molecular and Cellular Biology*, **1983**, 3, 1511-7	4.8	11
31	Pathogenic and Uncertain Genetic Variants Have Clinical Cardiac Correlates in Diverse Biobank Participants. *Journal of the American Heart Association*, **2020**, 9, e013808	6	10
30	Xanthusbase: adapting wikipedia principles to a model organism database. *Nucleic Acids Research*, **2007**, 35, D422-6	20.1	10
29	Collaborative annotation of genes and proteins between UniProtKB/Swiss-Prot and dictyBase. *Database: the Journal of Biological Databases and Curation*, **2009**, 2009, bap016	5	9
28	A general purpose method for extracting RNA from Dictyostelium cells. *Nature Protocols*, **2007**, 2, 1329-38	18.8	9
27	Transrectal ultrasound assessment of murine aorta and iliac arteries. *Journal of Surgical Research*, **2000**, 88, 193-9	2.5	8
26	At the Interface between Medical Informatics and Personalized Medicine: The eMERGE Network Experience. *Healthcare Informatics Research*, **2013**, 19, 67-8	3	7
25	Spliceosomal genes in the D. discoideum genome: a comparison with those in H. sapiens, D. melanogaster, A. thaliana and S. cerevisiae. *Protein and Cell*, **2011**, 2, 395-409	7.2	7
24	Expression and organization of BP74, a cyclic AMP-regulated gene expressed during Dictyostelium discoideum development. *Molecular and Cellular Biology*, **1989**, 9, 4170-4178	4.8	7
23	Genomic Medicine Year in Review: 2019. *American Journal of Human Genetics*, **2019**, 105, 1072-1075	11	7
22	Cytokinesis: a regulatory role for Ras-related proteins?. *Current Biology*, **1997**, 7, R648-50	6.3	6
21	Both the amino and carboxyl termini of Dictyostelium myosin essential light chain are required for binding to myosin heavy chain. *Journal of Biological Chemistry*, **1995**, 270, 27977-81	5.4	6
20	dictyBase and the Dicty Stock Center (version 2.0) - a progress report. *International Journal of Developmental Biology*, **2019**, 63, 563-572	1.9	6

19	Intravenous gamma globulin in the management of patients with hypogammaglobulinemia. *Journal of Allergy and Clinical Immunology*, **1978**, 61, 378-83	11.5	5
18	Different mRNAs have different nuclear transit times in Dictyostelium discoideum aggregates. *Molecular and Cellular Biology*, **1983**, 3, 1511-1517	4.8	5
17	The opportunities and challenges of implementing genomics-informed personalized medicine. *Clinical Pharmacology and Therapeutics*, **2013**, 94, 181-2	6.1	4
16	Response: the myeloperoxidase gene in acute promyelocytic leukemia. *Science*, **1989**, 244, 825-6	33.3	4
15	Uncovering a role for the tail of the Dictyostelium discoideum SadA protein in cell-substrate adhesion. *Eukaryotic Cell*, **2011**, 10, 662-71		3
14	Isolation of developmentally regulated genes. *Methods in Cell Biology*, **1987**, 28, 461-70	1.8	3
13	Methylation and developmental regulation of gene expression. *Trends in Biochemical Sciences*, **1982**, 7, 421	10.3	3
12	Gene amplification during development. *Trends in Biochemical Sciences*, **1982**, 7, 161-162	10.3	3
11	Expression of chicken gizzard RLC complements the cytokinesis and developmental defects of Dictyostelium RLC null cells. *Journal of Muscle Research and Cell Motility*, **1999**, 20, 177-86	3.5	2
10	Replication of Associations with Electrocardio-graphic Traits in African Americans from Clinical and Epidemiologic Studies. *Lecture Notes in Computer Science*, **2014**, 2014, 939-951	0.9	2
9	Genomic Medicine Year in Review: 2020. *American Journal of Human Genetics*, **2020**, 107, 1007-1010	11	2
8	A pleiotropic defect in cAMP-regulated gene expression in the Dictyostelium agg- mutant synag 7. *Developmental Biology*, **1990**, 140, 225-8	3.1	1
7	Homeoboxes: what do they do?. *Trends in Genetics*, **1986**, 2, 224-225	8.5	1
6	Gene therapy in Drosophila. *Trends in Biochemical Sciences*, **1983**, 8, 191-193	10.3	1
5	Genomic medicine year in review: 2021. *American Journal of Human Genetics*, **2021**, 108, 2210-2214	11	1
4	Is genetic ancestry a tool to combat health disparities?. *Cell*, **2021**, 184, 1964-1965	56.2	1
3	Neptune: an environment for the delivery of genomic medicine. *Genetics in Medicine*, **2021**, 23, 1838-1848	8.1	1
2	Managing, Funding, and Supporting Research **2015**, 149-158		

1 The contributions of light chains to myosin function. *Biophysical Journal*, **1995**, 68, 223S 2.9