Gholson J Lyon

List of Publications by Year
in descending order

89 papers	8,873 citations	57631 44 h-index	48187 88 g-index
108 all docs	108 docs citations	108 times ranked	16672 citing authors

#	Article	IF	Citations
1	Analysis of shared heritability in common disorders of the brain. Science, 2018, 360, .	6.0	1,085
2	The Human Phenotype Ontology in 2017. Nucleic Acids Research, 2017, 45, D865-D876.	6.5	699
3	Lifetime Prevalence, Age of Risk, and Genetic Relationships of Comorbid Psychiatric Disorders in Tourette Syndrome. JAMA Psychiatry, 2015, 72, 325.	6.0	496
4	Low concordance of multiple variant-calling pipelines: practical implications for exome and genome sequencing. Genome Medicine, 2013, 5, 28.	3.6	381
5	Genome-wide copy number variation study associates metabotropic glutamate receptor gene networks with attention deficit hyperactivity disorder. Nature Genetics, 2012, 44, 78-84.	9.4	334
6	Peptide signaling in Staphylococcus aureus and other Gram-positive bacteria. Peptides, 2004, 25, 1389-1403.	1.2	316
7	Exfoliatin-Producing Strains Define a Fourthagr Specificity Group in Staphylococcus aureus. Journal of Bacteriology, 2000, 182, 6517-6522.	1.0	284
8	Long-read sequencing and de novo assembly of a Chinese genome. Nature Communications, 2016, 7, 12065.	5.8	242
9	Interrogating the Genetic Determinants of Touretteâ€™s Syndrome and Other Tic Disorders Through Genome-Wide Association Studies. American Journal of Psychiatry, 2019, 176, 217-227.	4.0	242
10	Rational design of a global inhibitor of the virulence response in Staphylococcus aureus, based in part on localization of the site of inhibition to the receptor-histidine kinase, AgrC. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13330-13335.	3.3	232
11	Mice deficient for the secreted glycoprotein SPARC/osteonectin/BM40 develop normally but show severe age-onset cataract formation and disruption of the lens. EMBO Journal, 1998, 17, 1860-1870.	3.5	229
12	SNVer: a statistical tool for variant calling in analysis of pooled or individual next-generation sequencing data. Nucleic Acids Research, 2011, 39, e132-e132.	6.5	225
13	Using VAAST to Identify an X-Linked Disorder Resulting in Lethality in Male Infants Due to N-Terminal Acetyltransferase Deficiency. American Journal of Human Genetics, 2011, 89, 28-43.	2.6	222
14	Accurate de novo and transmitted indel detection in exome-capture data using microassembly. Nature Methods, 2014, 11, 1033-1036.	9.0	194
15	Key Determinants of Receptor Activation in theagrAutoinducing Peptides ofStaphylococcus aureusâ€. Biochemistry, 2002, 41, 10095-10104.	1.2	188
16	Genome-wide association study of Tourette's syndrome. Molecular Psychiatry, 2013, 18, 721-728.	4.1	161
17	De Novo Coding Variants Are Strongly Associated with Tourette Disorder. Neuron, 2017, 94, 486-499.e9.	3.8	155
18	Reducing INDEL calling errors in whole genome and exome sequencing data. Genome Medicine, 2014, 6, 89.	3.6	144

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19	Rare Copy Number Variants in NRXN1 and CNTN6 Increase Risk for Tourette Syndrome. Neuron, 2017, 94, 1101-1111.e7.	3.8	137
20	Role of the tyrosine kinase pyk2 in the integrin-dependent activation of human neutrophils by TNF. Journal of Clinical Investigation, 1999, 104, 327-335.	3.9	120
21	Copy Number Variation in Obsessive-Compulsive Disorder and Tourette Syndrome: A Cross-Disorder Study. Journal of the American Academy of Child and Adolescent Psychiatry, 2014, 53, 910-919.	0.3	111
22	Chemical Signaling among Bacteria and Its Inhibition. Chemistry and Biology, 2003, 10, 1007-1021.	6.2	109
23	Detection of secreted peptides by using hypothesis-driven multistage mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2795-2800.	3.3	108
24	An international effort towards developing standards for best practices in analysis, interpretation and reporting of clinical genome sequencing results in the CLARITY Challenge. Genome Biology, 2014, 15, R53.	13.9	101
25	TAF1 Variants Are Associated with Dysmorphic Features, Intellectual Disability, and Neurological Manifestations. American Journal of Human Genetics, 2015, 97, 922-932.	2.6	101
26	Indel variant analysis of short-read sequencing data with Scalpel. Nature Protocols, 2016, 11, 2529-2548.	5.5	99
27	Biochemical and cellular analysis of Ogden syndrome reveals downstream Nt-acetylation defects. Human Molecular Genetics, 2015, 24, 1956-1976.	1.4	97
28	Toward Fully Synthetic N-Linked Glycoproteins. Angewandte Chemie - International Edition, 2003, 42, 431-434.	7.2	93
29	De Novo Sequence and Copy Number Variants Are Strongly Associated with Tourette Disorder and Implicate Cell Polarity in Pathogenesis. Cell Reports, 2018, 24, 3441-3454.e12.	2.9	91
30	Whole-genome DNA/RNA sequencing identifies truncating mutations in RBCK1 in a novel Mendelian disease with neuromuscular and cardiac involvement. Genome Medicine, 2013, 5, 67.	3.6	87
31	Hydrophobic interactions drive ligand-receptor recognition for activation and inhibition of staphylococcal quorum sensing. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16168-16173.	3.3	82
32	Reversible and Specific Extracellular Antagonism of Receptor-Histidine Kinase Signaling. Journal of Biological Chemistry, 2002, 277, 6247-6253.	1.6	81
33	Whole-genome sequencing in an autism multiplex family. Molecular Autism, 2013, 4, 8.	2.6	76
34	GestaltMatcher facilitates rare disease matching using facial phenotype descriptors. Nature Genetics, 2022, 54, 349-357.	9.4	73
35	The biological functions of Naa10 â€" From amino-terminal acetylation to human disease. Gene, 2015, 567, 103-131.	1.0	71
36	Identifying disease mutations in genomic medicine settings: current challenges and how to accelerate progress. Genome Medicine, 2012, 4, 58.	3.6	68

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37	Aripiprazole in Children and Adolescents with Tourette's Disorder: An Open-Label Safety and Tolerability Study. Journal of Child and Adolescent Psychopharmacology, 2009, 19, 623-633.	0.7	66
38	SeqMule: automated pipeline for analysis of human exome/genome sequencing data. Scientific Reports, 2015, 5, 14283.	1.6	63
39	Truncating Variants in NAA15 Are Associated with Variable Levels of Intellectual Disability, Autism Spectrum Disorder, and Congenital Anomalies. American Journal of Human Genetics, 2018, 102, 985-994.	2.6	59
40	PEDIA: prioritization of exome data by image analysis. Genetics in Medicine, 2019, 21, 2807-2814.	1.1	58
41	Presynaptic Regulation of Dopamine Transmission in Schizophrenia. Schizophrenia Bulletin, 2011, 37, 108-117.	2.3	56
42	Paralog Studies Augment Gene Discovery: DDX and DHX Genes. American Journal of Human Genetics, 2019, 105, 302-316.	2.6	56
43	Accounting for uncertainty in DNA sequencing data. Trends in Genetics, 2015, 31, 61-66.	2.9	51
44	Autism Spectrum Symptoms in a Touretteâ€™s Disorder Sample. Journal of the American Academy of Child and Adolescent Psychiatry, 2017, 56, 610-617.e1.	0.3	51
45	Exome sequencing and unrelated findings in the context of complex disease research: ethical and clinical implications. Discovery Medicine, 2011, 12, 41-55.	0.5	49
46	Localization of the Type 3 Iodothyronine Deiodinase (DIO3) Gene to Human Chromosome 14q32 and Mouse Chromosome 12F1. Genomics, 1998, 53, 119-121.	1.3	47
47	Identification of Two Heritable Cross-Disorder Endophenotypes for Tourette Syndrome. American Journal of Psychiatry, 2017, 174, 387-396.	4.0	46
48	Phenotypic and biochemical analysis of an international cohort of individuals with variants in NAA10 and NAA15. Human Molecular Genetics, 2019, 28, 2900-2919.	1.4	46
49	Phen2Gene: rapid phenotype-driven gene prioritization for rare diseases. NAR Genomics and Bioinformatics, 2020, 2, lqaa032.	1.5	45
50	Testing Tic Suppression: Comparing the Effects of Dexmethylphenidate to No Medication in Children and Adolescents with Attention-Deficit/Hyperactivity Disorder and Tourette's Disorder. Journal of Child and Adolescent Psychopharmacology, 2010, 20, 283-289.	0.7	43
51	Scikit-ribo Enables Accurate Estimation and Robust Modeling of Translation Dynamics at Codon Resolution. Cell Systems, 2018, 6, 180-191.e4.	2.9	41
52	Genetic and phenotypic overlap of specific obsessive-compulsive and attention-deficit/hyperactive subtypes with Tourette syndrome. Psychological Medicine, 2018, 48, 279-293.	2.7	40
53	Genome-wide linkage analysis of 972 bipolar pedigrees using single-nucleotide polymorphisms. Molecular Psychiatry, 2012, 17, 818-826.	4.1	31
54	Social disinhibition is a heritable subphenotype of tics in Tourette syndrome. Neurology, 2016, 87, 497-504.	1.5	31

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55	Synaptic processes and immune-related pathways implicated in Tourette syndrome. Translational Psychiatry, 2021, 11, 56.	2.4	31
56	NAA10-related syndrome. Experimental and Molecular Medicine, 2018, 50, 1-10.	3.2	30
57	Bring clinical standards to human-genetics research. Nature, 2012, 482, 300-301.	13.7	26
58	Possible Varenicline-Induced Paranoia and Irritability in a Patient With Major Depressive Disorder, Borderline Personality Disorder, and Methamphetamine Abuse in Remission. Journal of Clinical Psychopharmacology, 2008, 28, 720-721.	0.7	22
59	Is Persistent Motor or Vocal Tic Disorder a Milder Form of Tourette Syndrome?. Movement Disorders, 2021, 36, 1899-1910.	2.2	21
60	Prevalence and predictors of hair pulling disorder and excoriation disorder in Tourette syndrome. European Child and Adolescent Psychiatry, 2018, 27, 569-579.	2.8	20
61	Toward Fully Synthetic N-Linked Glycoproteins. Angewandte Chemie, 2003, 115, 447-450.	1.6	18
62	SeqHBase: a big data toolset for family based sequencing data analysis. Journal of Medical Genetics, 2015, 52, 282-288.	1.5	17
63	Missense variants in TAF1 and developmental phenotypes: Challenges of determining pathogenicity. Human Mutation, 2020, 41, 449-464.	1.1	17
64	Isolation and Characterization of the Mouse Gene for the Type 3 Iodothyronine Deiodinase*This work was supported in part by NIH Research Grant DK-42271 (to D.L.S.).. , 0, .		17
65	KBG syndrome involving a single-nucleotide duplication in ANKRD11. Journal of Physical Education and Sports Management, 2016, 2, a001131.	0.5	15
66	Whole genome sequencing of one complex pedigree illustrates challenges with genomic medicine. BMC Medical Genomics, 2017, 10, 10.	0.7	15
67	Proteomic and genomic characterization of a yeast model for Ogden syndrome. Yeast, 2017, 34, 19-37.	0.8	15
68	Practical, ethical and regulatory considerations for the evolving medical and research genomics landscape. Applied & Translational Genomics, 2013, 2, 34-40.	2.1	14
69	Enabling Global Clinical Collaborations on Identifiable Patient Data: The Minerva Initiative. Frontiers in Genetics, 2019, 10, 611.	1.1	14
70	There is nothing â€˜incidentalâ€™ about unrelated findings. Personalized Medicine, 2012, 9, 163-166.	0.8	12
71	SCN8A mutation in a child presenting with seizures and developmental delays. Journal of Physical Education and Sports Management, 2016, 2, a001073.	0.5	12
72	Integrating precision medicine in the study and clinical treatment of a severely mentally ill person. PeerJ, 2013, 1, e177.	0.9	12

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73	VAC14 syndrome in two siblings with retinitis pigmentosa and neurodegeneration with brain iron accumulation. Journal of Physical Education and Sports Management, 2019, 5, a003715.	0.5	10
74	Complex Tics and Complex Management in a Case of Severe Tourette's Disorder (TD) in an Adolescent. Journal of Child and Adolescent Psychopharmacology, 2009, 19, 469-474.	0.7	8
75	Congenital Heart Defects Due to TAF1 Missense Variants. Circulation Genomic and Precision Medicine, 2020, 13, e002843.	1.6	8
76	Elevated common variant genetic risk for tourette syndrome in a densely-affected pedigree. Molecular Psychiatry, 2021, 26, 7522-7529.	4.1	8
77	Postraumatic Stress Disorder and Reactive Attachment Disorder: Outcome in An Adolescent. Journal of Child and Adolescent Psychopharmacology, 2008, 18, 641-646.	0.7	7
78	Genome-wide variant analysis of simplex autism families with an integrative clinical-bioinformatics pipeline. Journal of Physical Education and Sports Management, 2015, 1, a000422.	0.5	6
79	Naa12 compensates for Naa10 in mice in the amino-terminal acetylation pathway. ELife, 2021, 10, .	2.8	6
80	Tourettea€™s Disorder. Current Treatment Options in Neurology, 2010, 12, 274-286.	0.7	5
81	Systematic data-querying of large pediatric biorepository identifies novel Ehlers-Danlos Syndrome variant. BMC Musculoskeletal Disorders, 2016, 17, 80.	0.8	5
82	Exfoliatin-Producing Strains Define a Fourth agr Specificity Group in Staphylococcus aureus. Journal of Bacteriology, 2011, 193, 7027-7027.	1.0	4
83	a€œGenotype-firsta€•approaches on a curious case of idiopathic progressive cognitive decline. BMC Medical Genomics, 2014, 7, 66.	0.7	4
84	Autosomal recessive SLC30A9 variants in a Proband with a Cerebro-Renal Syndrome and No Parental Consanguinity. Journal of Physical Education and Sports Management, 2021, , mcs.a006137.	0.5	4
85	From Molecular Understanding to Organismal Biology of N-Terminal Acetyltransferases. Structure, 2019, 27, 1053-1055.	1.6	2
86	Massively parallel sequencing identifies a previously unrecognized X-linked disorder resulting in lethality in male infants owing to amino-terminal acetyltransferase deficiency. Genome Biology, 2011, 12, .	13.9	1
87	Attention-Deficit Hyperactivity Disorder: A Handbook for Diagnosis and Treatmen, 3rd ed.. Journal of Clinical Psychiatry, 2008, 69, 1023.	1.1	1
88	Open access and data sharing: Easier said than done. Applied & Translational Genomics, 2014, 3, 120-121.	2.1	0
89	896. Genetic and Phenotypic Overlap of Specific Obsessive-Compulsive Subtypes with Tourette Syndrome. Biological Psychiatry, 2017, 81, S361-S362.	0.7	0