Judith A Blake

List of Publications by Year
in descending order

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101 papers	47,361 citations	41344 49 h-index	38395 95 g-index
117 all docs	117 docs citations	117 times ranked	68716 citing authors

#	Article	IF	Citations
1	Gene Ontology: tool for the unification of biology. Nature Genetics, 2000, 25, 25-29.	21.4	34,499
2	The Gene Ontology resource: enriching a GOld mine. Nucleic Acids Research, 2021, 49, D325-D334.	14.5	2,416
3	A promoter-level mammalian expression atlas. Nature, 2014, 507, 462-470.	27.8	1,838
4	Creating the Gene Ontology Resource: Design and Implementation. Genome Research, 2001, 11, 1425-1433.	5.5	881
5	Mouse Genome Database (MGD) 2019. Nucleic Acids Research, 2019, 47, D801-D806.	14.5	625
6	The Mouse Genome Database (MGD): mouse biology and model systems. Nucleic Acids Research, 2007, 36, D724-D728.	14.5	365
7	The Mouse Genome Database (MGD): facilitating mouse as a model for human biology and disease. Nucleic Acids Research, 2015, 43, D726-D736.	14.5	335
8	Mouse Genome Database (MGD)-2017: community knowledge resource for the laboratory mouse. Nucleic Acids Research, 2017, 45, D723-D729.	14.5	255
9	Mouse Genome Database (MGD)-2018: knowledgebase for the laboratory mouse. Nucleic Acids Research, 2018, 46, D836-D842.	14.5	241
10	The Mouse Genome Database (MGD): comprehensive resource for genetics and genomics of the laboratory mouse. Nucleic Acids Research, 2012, 40, D881-D886.	14.5	233
11	The Mouse Genome Database (MGD): premier model organism resource for mammalian genomics and genetics. Nucleic Acids Research, 2011, 39, D842-D848.	14.5	228
12	The Mouse Genome Database (MGD): from genes to mice--a community resource for mouse biology. Nucleic Acids Research, 2004, 33, D471-D475.	14.5	217
13	A critical assessment of Mus musculus gene function prediction using integrated genomic evidence. Genome Biology, 2008, 9, S2.	9.6	214
14	MGD: the Mouse Genome Database. Nucleic Acids Research, 2003, 31, 193-195.	14.5	212
15	The Cell Ontology 2016: enhanced content, modularization, and ontology interoperability. Journal of Biomedical Semantics, 2016, 7, 44.	1.6	201
16	The Mouse Genome Database: integration of and access to knowledge about the laboratory mouse. Nucleic Acids Research, 2014, 42, D810-D817.	14.5	196
17	Concept annotation in the CRAFT corpus. BMC Bioinformatics, 2012, 13, 161.	2.6	188
18	Mouse Genome Database (MGD): Knowledgebase for mouseâ€“human comparative biology. Nucleic Acids Research, 2021, 49, D981-D987.	14.5	179

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19	Finding Our Way through Phenotypes. PLoS Biology, 2015, 13, e1002033.	5.6	178
20	RNAcentral: a hub of information for non-coding RNA sequences. Nucleic Acids Research, 2019, 47, D221-D229.	14.5	153
21	The Gene Ontology's Reference Genome Project: A Unified Framework for Functional Annotation across Species. PLoS Computational Biology, 2009, 5, e1000431.	3.2	148
22	Alliance of Genome Resources Portal: unified model organism research platform. Nucleic Acids Research, 2020, 48, D650-D658.	14.5	145
23	The Mouse Genome Database (MGD): the model organism database for the laboratory mouse. Nucleic Acids Research, 2002, 30, 113-115.	14.5	135
24	Systems biology of the 2-cell mouse embryo. Cytogenetic and Genome Research, 2004, 105, 240-250.	1.1	128
25	Beyond the data deluge: Data integration and bio-ontologies. Journal of Biomedical Informatics, 2006, 39, 314-320.	4.3	128
26	Gene Ontology annotations: what they mean and where they come from. BMC Bioinformatics, 2008, 9, S2.	2.6	124
27	Logical Development of the Cell Ontology. BMC Bioinformatics, 2011, 12, 6.	2.6	117
28	Ontology engineering. Nature Biotechnology, 2010, 28, 128-130.	17.5	113
29	The Protein Ontology: a structured representation of protein forms and complexes. Nucleic Acids Research, 2011, 39, D539-D545.	14.5	102
30	The Mouse Genome Database genotypes::phenotypes. Nucleic Acids Research, 2009, 37, D712-D719.	14.5	101
31	The mouse genome database (MGD): new features facilitating a model system. Nucleic Acids Research, 2007, 35, D630-D637.	14.5	100
32	Standardized description of scientific evidence using the Evidence Ontology (ECO). Database: the Journal of Biological Databases and Curation, 2014, 2014, bau075-bau075.	3.0	95
33	The Gene Ontology (GO) Project: Structured Vocabularies for Molecular Biology and Their Application to Genome and Expression Analysis. Current Protocols in Bioinformatics, 2008, 23, Unit 7.2.	25.8	94
34	On the Use of Gene Ontology Annotations to Assess Functional Similarity among Orthologs and Paralogs: A Short Report. PLoS Computational Biology, 2012, 8, e1002386.	3.2	91
35	Extension and Integration of the Gene Ontology (GO): Combining GO Vocabularies With External Vocabularies. Genome Research, 2002, 12, 1982-1991.	5.5	81
36	Mouse genome database 2016. Nucleic Acids Research, 2016, 44, D840-D847.	14.5	80

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37	The Mouse Genome Database: enhancements and updates. Nucleic Acids Research, 2010, 38, D586-D592.	14.5	78
38	A method for increasing expressivity of Gene Ontology annotations using a compositional approach. BMC Bioinformatics, 2014, 15, 155.	2.6	78
39	Cisplatin-resistant triple-negative breast cancer subtypes: multiple mechanisms of resistance. BMC Cancer, 2019, 19, 1039.	2.6	77
40	Mouse Genome Informatics (MGI): Resources for Mining Mouse Genetic, Genomic, and Biological Data in Support of Primary and Translational Research. Methods in Molecular Biology, 2017, 1488, 47-73.	0.9	76
41	Protein Ontology (PRO): enhancing and scaling up the representation of protein entities. Nucleic Acids Research, 2017, 45, D339-D346.	14.5	73
42	The Mouse Genome Database (MGD): updates and enhancements. Nucleic Acids Research, 2006, 34, D562-D567.	14.5	72
43	Bio-ontologiesâ€”fast and furious. Nature Biotechnology, 2004, 22, 773-774.	17.5	67
44	The Mouse Genome Database (MGD): integrating biology with the genome. Nucleic Acids Research, 2004, 32, 476D-481.	14.5	66
45	Protein Ontology: a controlled structured network of protein entities. Nucleic Acids Research, 2014, 42, D415-D421.	14.5	63
46	The mouse Gene Expression Database (GXD): updates and enhancements. Nucleic Acids Research, 2004, 32, 568D-571.	14.5	61
47	A short study on the success of the Gene Ontology. Web Semantics, 2004, 1, 235-240.	2.9	61
48	The Mouse Genome Database: Genotypes, Phenotypes, and Models of Human Disease. Nucleic Acids Research, 2013, 41, D885-D891.	14.5	61
49	Providing the Missing Link: the Exposure Science Ontology ExO. Environmental Science & Technology, 2012, 46, 3046-3053.	10.0	57
50	Harmonizing model organism data in the Alliance of Genome Resources. Genetics, 2022, 220, .	2.9	52
51	Ontology development for biological systems: immunology. Bioinformatics, 2007, 23, 913-915.	4.1	49
52	PROGRAM DESCRIPTION. Genomics, 2001, 74, 121-128.	2.9	47
53	Ten Quick Tips for Using the Gene Ontology. PLoS Computational Biology, 2013, 9, e1003343.	3.2	45
54	A procedure for assessing GO annotation consistency. Bioinformatics, 2005, 21, i136-i143.	4.1	40

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55	Hematopoietic cell types: Prototype for a revised cell ontology. Journal of Biomedical Informatics, 2011, 44, 75-79.	4.3	35
56	Model organism data evolving in support of translational medicine. Lab Animal, 2018, 47, 277-289.	0.4	35
57	Mouse Genome Informatics (MGI): reflecting on 25Âyears. Mammalian Genome, 2015, 26, 272-284.	2.2	34
58	Access to immunology through the Gene Ontology. Immunology, 2008, 125, 154-160.	4.4	33
59	Gene Ontology annotation of sequence-specific DNA binding transcription factors: setting the stage for a large-scale curation effort. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat062-bat062.	3.0	33
60	Investigation of COVID-19 comorbidities reveals genes and pathways coincident with the SARS-CoV-2 viral disease. Scientific Reports, 2020, 10, 20848.	3.3	32
61	Mouse Genome Informatics (MGI): latest news from MGD and GXD. Mammalian Genome, 2022, 33, 4-18.	2.2	30
62	Rules and Guidelines for Mouse Gene, Allele, and Mutation Nomenclature: A Condensed Version. Genomics, 2002, 79, 471-474.	2.9	29
63	Mouse Genome Informatics (MGI) Resources for Pathology and Toxicology. Toxicologic Pathology, 2007, 35, 456-457.	1.8	27
64	DFLAT: functional annotation for human development. BMC Bioinformatics, 2014, 15, 45.	2.6	27
65	OmniSearch: a semantic search system based on the Ontology for MIcroRNA Target (OMIT) for microRNA-target gene interaction data. Journal of Biomedical Semantics, 2016, 7, 25.	1.6	27
66	Improving Interpretation of Cardiac Phenotypes and Enhancing Discovery With Expanded Knowledge in the Gene Ontology. Circulation Genomic and Precision Medicine, 2018, 11, e001813.	3.6	24
67	The Gene Ontology (GO) Project: Structured Vocabularies for Molecular Biology and Their Application to Genome and Expression Analysis. Current Protocols in Bioinformatics, 2003, 00, Unit 7.2.	25.8	23
68	An en masse phenotype and function prediction system for Mus musculus. Genome Biology, 2008, 9, S8.	9.6	20
69	Manual Gene Ontology annotation workflow at the Mouse Genome Informatics Database. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas045-bas045.	3.0	19
70	Reactome and the Gene Ontology: digital convergence of data resources. Bioinformatics, 2021, 37, 3343-3348.	4.1	19
71	Connecting Sequence and Biology in the Laboratory Mouse. Genome Research, 2003, 13, 1505-1519.	5.5	18
72	OMIT: Dynamic, Semi-Automated Ontology Development for the microRNA Domain. PLoS ONE, 2014, 9, e100855.	2.5	18

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73	Representing Kidney Development Using the Gene Ontology. PLoS ONE, 2014, 9, e99864.	2.5	17
74	Informatics for Mouse Genetics and Genome Mapping. Methods, 1998, 14, 179-190.	3.8	16
75	Autism candidate genes via mouse phenomics. Journal of Biomedical Informatics, 2011, 44, S5-S11.	4.3	16
76	An effective biomedical document classification scheme in support of biocuration: addressing class imbalance. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	3.0	15
77	The representation of protein complexes in the Protein Ontology (PRO). BMC Bioinformatics, 2011, 12, 371.	2.6	14
78	Corralling conditional mutations: A unified resource for mouse phenotypes. Genesis, 2002, 32, 63-65.	1.6	13
79	Ontology based molecular signatures for immune cell types via gene expression analysis. BMC Bioinformatics, 2013, 14, 263.	2.6	13
80	Mouse Genome Database: From sequence to phenotypes and disease models. Genesis, 2015, 53, 458-473.	1.6	13
81	Gene regulation knowledge commons: community action takes care of DNA binding transcription factors. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw088.	3.0	12
82	Ontological visualization of protein-protein interactions. BMC Bioinformatics, 2005, 6, 29.	2.6	11
83	Application of comparative biology in GO functional annotation: the mouse model. Mammalian Genome, 2015, 26, 574-583.	2.2	11
84	Modeling biochemical pathways in the gene ontology. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw126.	3.0	11
85	Disease model curation improvements at Mouse Genome Informatics. Database: the Journal of Biological Databases and Curation, 2012, 2012, bar063-bar063.	3.0	10
86	A semantic approach for knowledge capture of MIcroRNA-Target gene interactions. , 2015, , .		10
87	The Non-Coding RNA Ontology (NCRO): a comprehensive resource for the unification of non-coding RNA biology. Journal of Biomedical Semantics, 2016, 7, 24.	1.6	10
88	TGF-beta signaling proteins and the Protein Ontology. BMC Bioinformatics, 2009, 10, S3.	2.6	9
89	Orthology for comparative genomics in the mouse genome database. Mammalian Genome, 2015, 26, 305-313.	2.2	9
90	The development of non-coding RNA ontology. International Journal of Data Mining and Bioinformatics, 2016, 15, 214.	0.1	9

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91	Human Disease Genes and Their Cloned Mouse Orthologs: Exploration of the FANTOM2 cDNA Sequence Data Set. Genome Research, 2003, 13, 1496-1500.	5.5	7
92	A Resource of Quantitative Functional Annotation for Homo sapiens Genes. G3: Genes, Genomes, Genetics, 2012, 2, 223-233.	1.8	6
93	An ontology-based MicroRNA knowledge sharing and acquisition framework. , 2012, , .		6
94	Methodology for the inference of gene function from phenotype data. BMC Bioinformatics, 2014, 15, 405.	2.6	5
95	Curating gene sets: challenges and opportunities for integrative analysis. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	3.0	5
96	Using ontology visualization to facilitate access to knowledge about human disease genes. Applied Ontology, 2009, 4, 35-49.	2.0	3
97	A Short Study on the Success of the Gene Ontology. SSRN Electronic Journal, 0, , .	0.4	3
98	Using bio-ontologies as data annotation, integration & analytical tools at the Mouse Genome Informatics resource. , 2008, , .		1
99	Mouse and Rat Genome Informatics. , 0, , 119-142.		0
100	A domain ontology for the Non-Coding RNA field. , 2015, , .		0
101	The Mouse Genome Database and The Gene Expression Database: Genotype to Phenotype. , 2002, , 119-128.		0