

# Christopher J Mungall

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167  
papers

31,241  
citations

67  
h-index

176  
g-index

199  
ext. papers

39,654  
ext. citations

11  
avg, IF

8.09  
L-index

#	Paper	IF	Citations
167	Genome sequence of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nature</i> , <b>2002</b> , 419, 498-511	50.4	3336
166	The Gene Ontology Resource: 20 years and still GOing strong. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, D330-D338.1		1962
165	An atlas of active enhancers across human cell types and tissues. <i>Nature</i> , <b>2014</b> , 507, 455-461	50.4	1595
164	The OBO Foundry: coordinated evolution of ontologies to support biomedical data integration. <i>Nature Biotechnology</i> , <b>2007</b> , 25, 1251-5	44.5	1556
163	Comparative genomics of the eukaryotes. <i>Science</i> , <b>2000</b> , 287, 2204-15	33.3	1364
162	A promoter-level mammalian expression atlas. <i>Nature</i> , <b>2014</b> , 507, 462-70	50.4	1301
161	Expansion of the Gene Ontology knowledgebase and resources. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D331-D338		1258
160	The Bioperl toolkit: Perl modules for the life sciences. <i>Genome Research</i> , <b>2002</b> , 12, 1611-8	9.7	1234
159	AmiGO: online access to ontology and annotation data. <i>Bioinformatics</i> , <b>2009</b> , 25, 288-9	7.2	1193
158	The generic genome browser: a building block for a model organism system database. <i>Genome Research</i> , <b>2002</b> , 12, 1599-610	9.7	929
157	The Gene Ontology (GO) project in 2006. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, D322-6	20.1	794
156	Creating the gene ontology resource: design and implementation. <i>Genome Research</i> , <b>2001</b> , 11, 1425-33	9.7	788
155	Tools for neuroanatomy and neurogenetics in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 9715-20	11.5	688
154	Relations in biomedical ontologies. <i>Genome Biology</i> , <b>2005</b> , 6, R46	18.3	588
153	The Human Phenotype Ontology project: linking molecular biology and disease through phenotype data. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, D966-74	20.1	565
152	JBrowse: a next-generation genome browser. <i>Genome Research</i> , <b>2009</b> , 19, 1630-8	9.7	550
151	The Human Phenotype Ontology in 2017. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D865-D876	20.1	507

150	The Gene Ontology resource: enriching a GOld mine. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, D325-D334	20.1	494
149	The Sequence Ontology: a tool for the unification of genome annotations. <i>Genome Biology</i> , <b>2005</b> , 6, R4418.3		492
148	Gateways to the FANTOM5 promoter level mammalian expression atlas. <i>Genome Biology</i> , <b>2015</b> , 16, 22	18.3	443
147	Disease Ontology 2015 update: an expanded and updated database of human diseases for linking biomedical knowledge through disease data. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, D1071-8	20.1	403
146	Transcribed enhancers lead waves of coordinated transcription in transitioning mammalian cells. <i>Science</i> , <b>2015</b> , 347, 1010-4	33.3	384
145	Uberon, an integrative multi-species anatomy ontology. <i>Genome Biology</i> , <b>2012</b> , 13, R5	18.3	380
144	The Gene Ontology in 2010: extensions and refinements. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, D331-5	20.1	367
143	Expansion of the Human Phenotype Ontology (HPO) knowledge base and resources. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, D1018-D1027	20.1	333
142	The FlyBase database of the Drosophila genome projects and community literature. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 172-5	20.1	325
141	GOATOOLS: A Python library for Gene Ontology analyses. <i>Scientific Reports</i> , <b>2018</b> , 8, 10872	4.9	300
140	An integrated expression atlas of miRNAs and their promoters in human and mouse. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 872-878	44.5	282
139	The Matchmaker Exchange: a platform for rare disease gene discovery. <i>Human Mutation</i> , <b>2015</b> , 36, 915-24.7		280
138	Annotation of the Drosophila melanogaster euchromatic genome: a systematic review. <i>Genome Biology</i> , <b>2002</b> , 3, RESEARCH0083	18.3	264
137	Improved exome prioritization of disease genes through cross-species phenotype comparison. <i>Genome Research</i> , <b>2014</b> , 24, 340-8	9.7	219
136	Linking human diseases to animal models using ontology-based phenotype annotation. <i>PLoS Biology</i> , <b>2009</b> , 7, e1000247	9.7	209
135	Integrating phenotype ontologies across multiple species. <i>Genome Biology</i> , <b>2010</b> , 11, R2	18.3	204
134	A Chado case study: an ontology-based modular schema for representing genome-associated biological information. <i>Bioinformatics</i> , <b>2007</b> , 23, i337-46	7.2	184
133	The Monarch Initiative: an integrative data and analytic platform connecting phenotypes to genotypes across species. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D712-D722	20.1	170

132	The Gene Ontology: enhancements for 2011. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, D559-64	20.1	166
131	The environment ontology: contextualising biological and biomedical entities. <i>Journal of Biomedical Semantics</i> , <b>2013</b> , 4, 43	2.2	165
130	The Release 5.1 annotation of <i>Drosophila melanogaster</i> heterochromatin. <i>Science</i> , <b>2007</b> , 316, 1586-91	33.3	154
129	The Human Phenotype Ontology: Semantic Unification of Common and Rare Disease. <i>American Journal of Human Genetics</i> , <b>2015</b> , 97, 111-24	11	147
128	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. <i>Nature Genetics</i> , <b>2017</b> , 49, 1231-1238	36.3	145
127	Finding our way through phenotypes. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002033	9.7	144
126	A Whole-Genome Analysis Framework for Effective Identification of Pathogenic Regulatory Variants in Mendelian Disease. <i>American Journal of Human Genetics</i> , <b>2016</b> , 99, 595-606	11	136
125	The Gene Ontology's Reference Genome Project: a unified framework for functional annotation across species. <i>PLoS Computational Biology</i> , <b>2009</b> , 5, e1000431	5	134
124	The Human Phenotype Ontology in 2021. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, D1207-D1217	20.1	131
123	National Center for Biomedical Ontology: advancing biomedicine through structured organization of scientific knowledge. <i>OMICS A Journal of Integrative Biology</i> , <b>2006</b> , 10, 185-98	3.8	123
122	High-performance web services for querying gene and variant annotation. <i>Genome Biology</i> , <b>2016</b> , 17, 91	18.3	111
121	The Cell Ontology 2016: enhanced content, modularization, and ontology interoperability. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 44	2.2	111
120	Deletions of chromosomal regulatory boundaries are associated with congenital disease. <i>Genome Biology</i> , <b>2014</b> , 15, 423	18.3	108
119	Logical development of the cell ontology. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 6	3.6	102
118	The environment ontology in 2016: bridging domains with increased scope, semantic density, and interoperation. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 57	2.2	102
117	Global biotic interactions: An open infrastructure to share and analyze species-interaction datasets. <i>Ecological Informatics</i> , <b>2014</b> , 24, 148-159	4.2	98
116	The plant ontology as a tool for comparative plant anatomy and genomic analyses. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, e1	4.9	97
115	Phenotype ontologies: the bridge between genomics and evolution. <i>Trends in Ecology and Evolution</i> , <b>2007</b> , 22, 345-50	10.9	95

114	PhenoDigm: analyzing curated annotations to associate animal models with human diseases. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2013</b> , 2013, bat025	5	94
113	Cross-product extensions of the Gene Ontology. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 80-6	10.2	83
112	Unification of multi-species vertebrate anatomy ontologies for comparative biology in Uberon. <i>Journal of Biomedical Semantics</i> , <b>2014</b> , 5, 21	2.2	80
111	Update of the FANTOM web resource: high resolution transcriptome of diverse cell types in mammals. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D737-D743	20.1	80
110	Use of animal models for exome prioritization of rare disease genes. <i>Orphanet Journal of Rare Diseases</i> , <b>2014</b> , 9, O19	4.2	78
109	The Planteome database: an integrated resource for reference ontologies, plant genomics and phenomics. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, D1168-D1180	20.1	77
108	Standardized description of scientific evidence using the Evidence Ontology (ECO). <i>Database: the Journal of Biological Databases and Curation</i> , <b>2014</b> , 2014,	5	75
107	On the Use of Gene Ontology Annotations to Assess Functional Similarity among Orthologs and Paralogs: A Short Report. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002386	5	75
106	Ontology engineering. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 128-30	44.5	74
105	Alliance of Genome Resources Portal: unified model organism research platform. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, D650-D658	20.1	71
104	CLO: The cell line ontology. <i>Journal of Biomedical Semantics</i> , <b>2014</b> , 5, 37	2.2	70
103	Computational evaluation of exome sequence data using human and model organism phenotypes improves diagnostic efficiency. <i>Genetics in Medicine</i> , <b>2016</b> , 18, 608-17	8.1	69
102	Ontobee: A linked ontology data server to support ontology term dereferencing, linkage, query and integration. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D347-D352	20.1	69
101	The Monarch Initiative in 2019: an integrative data and analytic platform connecting phenotypes to genotypes across species. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, D704-D715	20.1	68
100	Obol: integrating language and meaning in bio-ontologies. <i>Comparative and Functional Genomics</i> , <b>2004</b> , 5, 509-20		67
99	Construction and accessibility of a cross-species phenotype ontology along with gene annotations for biomedical research. <i>F1000Research</i> , <b>2013</b> , 2, 30	3.6	65
98	Large-scale trends in the evolution of gene structures within 11 animal genomes. <i>PLoS Computational Biology</i> , <b>2006</b> , 2, e15	5	63
97	Identifiers for the 21st century: How to design, provision, and reuse persistent identifiers to maximize utility and impact of life science data. <i>PLoS Biology</i> , <b>2017</b> , 15, e2001414	9.7	63

96	Ontologies as integrative tools for plant science. <i>American Journal of Botany</i> , <b>2012</b> , 99, 1263-75	2.7	62
95	A method for increasing expressivity of Gene Ontology annotations using a compositional approach. <i>BMC Bioinformatics</i> , <b>2014</b> , 15, 155	3.6	60
94	Evolution of the Sequence Ontology terms and relationships. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 87-93	10.2	58
93	Entity/quality-based logical definitions for the human skeletal phenome using PATO. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 7069-72	0.9	58
92	Construction and accessibility of a cross-species phenotype ontology along with gene annotations for biomedical research. <i>F1000Research</i> , <b>2013</b> , 2, 30	3.6	55
91	The ARKdb: genome databases for farmed and other animals. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, 106-10	20.1	50
90	MouseFinder: Candidate disease genes from mouse phenotype data. <i>Human Mutation</i> , <b>2012</b> , 33, 858-66	4.7	47
89	ECO, the Evidence & Conclusion Ontology: community standard for evidence information. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, D1186-D1194	20.1	42
88	Navigating the Phenotype Frontier: The Monarch Initiative. <i>Genetics</i> , <b>2016</b> , 203, 1491-5	4	40
87	Survey-based naming conventions for use in OBO Foundry ontology development. <i>BMC Bioinformatics</i> , <b>2009</b> , 10, 125	3.6	39
86	ROBOT: A Tool for Automating Ontology Workflows. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 407	3.6	38
85	The Matchmaker Exchange API: automating patient matching through the exchange of structured phenotypic and genotypic profiles. <i>Human Mutation</i> , <b>2015</b> , 36, 922-7	4.7	38
84	Gene Ontology Causal Activity Modeling (GO-CAM) moves beyond GO annotations to structured descriptions of biological functions and systems. <i>Nature Genetics</i> , <b>2019</b> , 51, 1429-1433	36.3	37
83	Formalization of taxon-based constraints to detect inconsistencies in annotation and ontology development. <i>BMC Bioinformatics</i> , <b>2010</b> , 11, 530	3.6	37
82	Phenotypic overlap in the contribution of individual genes to CNV pathogenicity revealed by cross-species computational analysis of single-gene mutations in humans, mice and zebrafish. <i>DMM Disease Models and Mechanisms</i> , <b>2013</b> , 6, 358-72	4.1	36
81	MIRO: guidelines for minimum information for the reporting of an ontology. <i>Journal of Biomedical Semantics</i> , <b>2018</b> , 9, 6	2.2	35
80	Dovetailing biology and chemistry: integrating the Gene Ontology with the ChEBI chemical ontology. <i>BMC Genomics</i> , <b>2013</b> , 14, 513	4.5	35
79	Novel sequence feature variant type analysis of the HLA genetic association in systemic sclerosis. <i>Human Molecular Genetics</i> , <b>2010</b> , 19, 707-19	5.6	33

78	A unified anatomy ontology of the vertebrate skeletal system. <i>PLoS ONE</i> , <b>2012</b> , 7, e51070	3.7	32
77	Use of model organism and disease databases to support matchmaking for human disease gene discovery. <i>Human Mutation</i> , <b>2015</b> , 36, 979-84	4.7	30
76	Hematopoietic cell types: prototype for a revised cell ontology. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 75-9	10.2	28
75	AgBioData consortium recommendations for sustainable genomics and genetics databases for agriculture. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2018</b> , 2018,	5	28
74	Mapping between the OBO and OWL ontology languages. <i>Journal of Biomedical Semantics</i> , <b>2011</b> , 2 Suppl 1, S3	2.2	27
73	Dead simple OWL design patterns. <i>Journal of Biomedical Semantics</i> , <b>2017</b> , 8, 18	2.2	26
72	Capturing phenotypes for precision medicine. <i>Journal of Physical Education and Sports Management</i> , <b>2015</b> , 1, a000372	2.8	26
71	The Gene Ontology (GO) Cellular Component Ontology: integration with SAO (Subcellular Anatomy Ontology) and other recent developments. <i>Journal of Biomedical Semantics</i> , <b>2013</b> , 4, 20	2.2	25
70	TermGenie - a web-application for pattern-based ontology class generation. <i>Journal of Biomedical Semantics</i> , <b>2014</b> , 5, 48	2.2	25
69	Improving ontologies by automatic reasoning and evaluation of logical definitions. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 418	3.6	25
68	An improved ontological representation of dendritic cells as a paradigm for all cell types. <i>BMC Bioinformatics</i> , <b>2009</b> , 10, 70	3.6	25
67	KG-COVID-19: A Framework to Produce Customized Knowledge Graphs for COVID-19 Response. <i>Patterns</i> , <b>2021</b> , 2, 100155	5.1	24
66	Semantic integration of clinical laboratory tests from electronic health records for deep phenotyping and biomarker discovery. <i>Npj Digital Medicine</i> , <b>2019</b> , 2,	15.7	23
65	A strategy for building neuroanatomy ontologies. <i>Bioinformatics</i> , <b>2012</b> , 28, 1262-9	7.2	23
64	Plain-language medical vocabulary for precision diagnosis. <i>Nature Genetics</i> , <b>2018</b> , 50, 474-476	36.3	20
63	FALDO: a semantic standard for describing the location of nucleotide and protein feature annotation. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 39	2.2	20
62	The RNA Ontology (RNAO): An ontology for integrating RNA sequence and structure data. <i>Applied Ontology</i> , <b>2011</b> , 6, 53-89	1.4	20
61	Ontologies for biologists: a community model for the annotation of genomic data. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2003</b> , 68, 227-35	3.9	20

60	The Ontologies Community of Practice: A CGIAR Initiative for Big Data in Agrifood Systems. <i>Patterns</i> , <b>2020</b> , 1, 100105	5.1	20
59	Mouse, man, and meaning: bridging the semantics of mouse phenotype and human disease. <i>Mammalian Genome</i> , <b>2009</b> , 20, 457-61	3.2	19
58	Nose to tail, roots to shoots: spatial descriptors for phenotypic diversity in the Biological Spatial Ontology. <i>Journal of Biomedical Semantics</i> , <b>2014</b> , 5, 34	2.2	17
57	Modelling kidney disease using ontology: insights from the Kidney Precision Medicine Project. <i>Nature Reviews Nephrology</i> , <b>2020</b> , 16, 686-696	14.9	17
56	Disease insights through cross-species phenotype comparisons. <i>Mammalian Genome</i> , <b>2015</b> , 26, 548-55	3.2	16
55	Genome-wide analysis of human disease alleles reveals that their locations are correlated in paralogous proteins. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e1000218	5	16
54	. <i>Nature Precedings</i> ,		16
53	Encoding Clinical Data with the Human Phenotype Ontology for Computational Differential Diagnostics. <i>Current Protocols in Human Genetics</i> , <b>2019</b> , 103, e92	3.2	15
52	Representing kidney development using the gene ontology. <i>PLoS ONE</i> , <b>2014</b> , 9, e99864	3.7	15
51	The Plant Ontology Facilitates Comparisons of Plant Development Stages Across Species. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 631	6.2	14
50	Clinical interpretation of CNVs with cross-species phenotype data. <i>Journal of Medical Genetics</i> , <b>2014</b> , 51, 766-772	5.8	14
49	The health care and life sciences community profile for dataset descriptions. <i>PeerJ</i> , <b>2016</b> , 4, e2331	3.1	14
48	The National Microbiome Data Collaborative: enabling microbiome science. <i>Nature Reviews Microbiology</i> , <b>2020</b> , 18, 313-314	22.2	13
47	Emerging semantics to link phenotype and environment. <i>PeerJ</i> , <b>2015</b> , 3, e1470	3.1	13
46	Use of OWL within the Gene Ontology		13
45	A Census of Disease Ontologies. <i>Annual Review of Biomedical Data Science</i> , <b>2018</b> , 1, 305-331	5.6	13
44	Ontology based molecular signatures for immune cell types via gene expression analysis. <i>BMC Bioinformatics</i> , <b>2013</b> , 14, 263	3.6	11
43	The Porifera Ontology (PORO): enhancing sponge systematics with an anatomy ontology. <i>Journal of Biomedical Semantics</i> , <b>2014</b> , 5, 39	2.2	10



42	FAIR principles and the IEDB: short-term improvements and a long-term vision of OBO-foundry mediated machine-actionable interoperability. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2018</b> , 2018,	5	9
41	Modeling biochemical pathways in the gene ontology. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2016</b> , 2016,	5	8
40	From SNOMED CT to Uberon: Transferability of evaluation methodology between similarly structured ontologies. <i>Artificial Intelligence in Medicine</i> , <b>2017</b> , 79, 9-14	7.4	7
39	OBO Foundry in 2021: operationalizing open data principles to evaluate ontologies. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2021</b> , 2021,	5	7
38	Microbiome Metadata Standards: Report of the National Microbiome Data Collaborative's Workshop and Follow-On Activities. <i>MSystems</i> , <b>2021</b> , 6,	7.6	7
37	The influence of disease categories on gene candidate predictions from model organism phenotypes. <i>Journal of Biomedical Semantics</i> , <b>2014</b> , 5, S4	2.2	6
36	k-BOOM: A Bayesian approach to ontology structure inference, with applications in disease ontology construction		6
35	A knowledge based approach to matching human neurodegenerative disease and animal models. <i>Frontiers in Neuroinformatics</i> , <b>2013</b> , 7, 7	3.9	5
34	Cyclooxygenase inhibitor use is associated with increased COVID-19 severity <b>2021</b> ,		5
33	The Minimum Information about a Molecular Interaction CAusal STatement (MI2CAST). <i>Bioinformatics</i> , <b>2021</b> , 36, 5712-5718	7.2	5
32	BioMake: a GNU make-compatible utility for declarative workflow management. <i>Bioinformatics</i> , <b>2017</b> , 33, 3502-3504	7.2	4
31	ONTO-ToolKit: enabling bio-ontology engineering via Galaxy. <i>BMC Bioinformatics</i> , <b>2010</b> , 11 Suppl 12, S8	3.6	4
30	Muscle Logic: New Knowledge Resource for Anatomy Enables Comprehensive Searches of the Literature on the Feeding Muscles of Mammals. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149102	3.7	4
29	Biolink Model: A universal schema for knowledge graphs in clinical, biomedical, and translational science. <i>Clinical and Translational Science</i> ,	4.9	4
28	Experiences Using Logic Programming in Bioinformatics. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1-21	0.9	3
27	KG-COVID-19: a framework to produce customized knowledge graphs for COVID-19 response <b>2020</b> ,		3
26	Reactome and the Gene Ontology: Digital convergence of data resources. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	3
25	A Logical Model of Homology for Comparative Biology. <i>Systematic Biology</i> , <b>2020</b> , 69, 345-362	8.4	3

24	Sequence Ontology terminology for gene regulation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2021</b> , 1864, 194745	6	3
23	Novel and Emerging Capabilities that Can Provide a Holistic Understanding of the Plant Root Microbiome. <i>Phytobiomes Journal</i> , <b>2021</b> , 5, 122-132	4.8	3
22	String of PURLs for frugal migration and maintenance of persistent identifiers. <i>Data Science</i> , <b>2020</b> , 3, 3-13	2.2	2
21	OPPL-Galaxy, a Galaxy tool for enhancing ontology exploitation as part of bioinformatics workflows. <i>Journal of Biomedical Semantics</i> , <b>2013</b> , 4, 2	2.2	2
20	Taking shortcuts with OWL using safe macros. <i>Nature Precedings</i> , <b>2010</b> ,		2
19	Evolution of the Sequence Ontology terms and relationships. <i>Nature Precedings</i> , <b>2009</b> ,		2
18	The RNA Ontology (RNAO): An ontology for integrating RNA sequence and structure data. <i>Nature Precedings</i> , <b>2009</b> ,		2
17	Transforming the study of organisms: Phenomic data models and knowledge bases. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008376	5	2
16	Navigating the phenotype frontier: The Monarch Initiative		2
15	Term Matrix: a novel Gene Ontology annotation quality control system based on ontology term co-annotation patterns. <i>Open Biology</i> , <b>2020</b> , 10, 200149	7	2
14	Distributed Cognition and Process Management Enabling Individualized Translational Research: The NIH Undiagnosed Diseases Program Experience. <i>Frontiers in Medicine</i> , <b>2016</b> , 3, 39	4.9	2
13	What is an anatomy ontology?. <i>Anatomical Record</i> , <b>2013</b> , 296, 1797-9	2.1	1
12	Cross-Product Extensions of the Gene Ontology. <i>Nature Precedings</i> , <b>2009</b> ,		1
11	Development of an Ontology of Microbial Phenotypes (OMP). <i>Nature Precedings</i> , <b>2009</b> ,		1
10	Supervised learning with word embeddings derived from PubMed captures latent knowledge about protein kinases and cancer. <i>NAR Genomics and Bioinformatics</i> , <b>2021</b> , 3, lqab113	3.7	1
9	The gene regulation knowledge commons: the action area of GREEKC. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2021</b> , 1865, 194768	6	1
8	Term Matrix: A novel Gene Ontology annotation quality control system based on ontology term co-annotation patterns		1
7	Opposite-of Information improves similarity calculations in phenotype ontologies		1

6	Identifiers for the 21st century: How to design, provision, and reuse persistent identifiers to maximize utility and impact of life science data		1
5	Knowledge Beacons: Web services for data harvesting of distributed biomedical knowledge. <i>PLoS ONE</i> , <b>2021</b> , 16, e0231916	3.7	1
4	NSAID use and clinical outcomes in COVID-19 patients: a 38-center retrospective cohort study.. <i>Virology Journal</i> , <b>2022</b> , 19, 84	6.1	1
3	ECO: the Evidence and Conclusion Ontology, an update for 2022.. <i>Nucleic Acids Research</i> , <b>2022</b> , 50, D1515-D1521	15.0	1
2	SvAnna: efficient and accurate pathogenicity prediction of coding and regulatory structural variants in long-read genome sequencing.. <i>Genome Medicine</i> , <b>2022</b> , 14, 44	14.4	0
1	Tools for exploring mouse models of human disease. <i>Drug Discovery Today: Disease Models</i> , <b>2016</b> , 20, 21-26	1.3	