Philippe Rocca-Serra

List of Publications by Year
in descending order

80	17,738	76326	66911
papers	citations	40 h-index	78 g-index

98	98	98	30001
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The FAIR Guiding Principles for scientific data management and stewardship. Scientific Data, 2016, 3, 160018.	5.3	8,670
2	The OBO Foundry: coordinated evolution of ontologies to support biomedical data integration. Nature Biotechnology, 2007, 25, 1251-1255.	17.5	1,955
3	ArrayExpress--a public repository for microarray gene expression data at the EBI. Nucleic Acids Research, 2003, 31, 68-71.	14.5	727
4	Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MIxS) specifications. Nature Biotechnology, 2011, 29, 415-420.	17.5	608
5	MetaboLightsâ€"an open-access general-purpose repository for metabolomics studies and associated meta-data. Nucleic Acids Research, 2013, 41, D781-D786.	14.5	578
6	Promoting coherent minimum reporting guidelines for biological and biomedical investigations: the MIBBI project. Nature Biotechnology, 2008, 26, 889-896.	17.5	506
7	Toward interoperable bioscience data. Nature Genetics, 2012, 44, 121-126.	21.4	362
8	EnsMart: A Generic System for Fast and Flexible Access to Biological Data. Genome Research, 2004, 14, 160-169.	5.5	348
9	ISA software suite: supporting standards-compliant experimental annotation and enabling curation at the community level. Bioinformatics, 2010, 26, 2354-2356.	4.1	247
10	FAIRsharing as a community approach to standards, repositories and policies. Nature Biotechnology, 2019, 37, 358-367.	17.5	228
11	The Ontology for Biomedical Investigations. PLoS ONE, 2016, 11, e0154556.	2.5	217
12	Modeling biomedical experimental processes with OBI. Journal of Biomedical Semantics, 2010, 1, S7.	1.6	207
13	A simple spreadsheet-based, MIAME-supportive format for microarray data: MAGE-TAB. BMC Bioinformatics, 2006, 7, 489.	2.6	185
14	FAIR Principles: Interpretations and Implementation Considerations. Data Intelligence, 2020, 2, 10-29.	1.5	149
15	MetaboLights: An Openâ€Access Database Repository for Metabolomics Data. Current Protocols in Bioinformatics, 2016, 53, 14.13.1-14.13.18.	25.8	147
16	'Omics Data Sharing. Science, 2009, 326, 234-236.	12.6	136
17	Use cases, best practice and reporting standards for metabolomics in regulatory toxicology. Nature Communications, 2019, 10, 3041.	12.8	131
18	EBI metagenomicsâ€"a new resource for the analysis and archiving of metagenomic data. Nucleic Acids Research, 2014, 42, D600-D606.	14.5	127

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19	Measures for interoperability of phenotypic data: minimum information requirements and formatting. Plant Methods, 2016, 12, 44.	4.3	109
20	Identifiers for the 21st century: How to design, provision, and reuse persistent identifiers to maximize utility and impact of life science data. PLoS Biology, 2017, 15, e2001414.	5.6	97
21	BioSharing: curated and crowd-sourced metadata standards, databases and data policies in the life sciences. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw075.	3.0	84
22	Enabling reusability of plant phenomic datasets with MIAPPE 1.1. New Phytologist, 2020, 227, 260-273.	7.3	84
23	Evaluating FAIR maturity through a scalable, automated, community-governed framework. Scientific Data, 2019, 6, 174.	5.3	82
24	Finding useful data across multiple biomedical data repositories using DataMed. Nature Genetics, 2017, 49, 816-819.	21.4	77
25	The center for expanded data annotation and retrieval. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1148-1152.	4.4	74
26	ArrayExpress: a public database of gene expression data at EBI. Comptes Rendus - Biologies, 2003, 326, 1075-1078.	0.2	69
27	Standard reporting requirements for biological samples in metabolomics experiments: mammalian/inÂvivo experiments. Metabolomics, 2007, 3, 179-188.	3.0	67
28	DATS, the data tag suite to enable discoverability of datasets. Scientific Data, 2017, 4, 170059.	5.3	67
29	Challenges of molecular nutrition research 6: the nutritional phenotype database to store, share and evaluate nutritional systems biology studies. Genes and Nutrition, 2010, 5, 189-203.	2.5	64
30	The carcinoGENOMICS project: Critical selection of model compounds for the development of omics-based in vitro carcinogenicity screening assays. Mutation Research - Reviews in Mutation Research, 2008, 659, 202-210.	5.5	60
31	PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, .	6.4	60
32	Development of FuGO: An Ontology for Functional Genomics Investigations. OMICS A Journal of Integrative Biology, 2006, 10, 199-204.	2.0	56
33	DataMed â€“ an open source discovery index for finding biomedical datasets. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 300-308.	4.4	54
34	Metabolomics standards initiative: ontology working group work in progress. Metabolomics, 2007, 3, 249-256.	3.0	52
35	Taxonomy-Based Glyph Designâ€”with a Case Study on Visualizing Workflows of Biological Experiments. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2603-2612.	4.4	51
36	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. Analytical Chemistry, 2018, 90, 649-656.	6.5	50

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37	OntoMaton: a Bioportal powered ontology widget for Google Spreadsheets. Bioinformatics, 2013, 29, 525-527.	4.1	49
38	linkedISA: semantic representation of ISA-Tab experimental metadata. BMC Bioinformatics, 2014, 15, S4.	2.6	49
39	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. Journal of Biomedical Semantics, 2014, 5, 5.	1.6	47
40	Metabolomics: The Stethoscope for the Twenty-First Century. Medical Principles and Practice, 2021, 30, 301-310.	2.4	46
41	Chemical Effects in Biological Systemsâ€"Data Dictionary (CEBS-DD): A Compendium of Terms for the Capture and Integration of Biological Study Design Description, Conventional Phenotypes, and â€˜Omics Data. Toxicological Sciences, 2005, 88, 585-601.	3.1	43
42	mzTab-M: A Data Standard for Sharing Quantitative Results in Mass Spectrometry Metabolomics. Analytical Chemistry, 2019, 91, 3302-3310.	6.5	43
43	Defining best practice for microarray analyses in nutrigenomic studies. British Journal of Nutrition, 2005, 93, 425-432.	2.3	39
44	A Strategy Capitalizing on Synergies: The Reporting Structure for Biological Investigation (RSBI) Working Group. OMICS A Journal of Integrative Biology, 2006, 10, 164-171.	2.0	33
45	Meeting Report from the Second â€œMinimum Information for Biological and Biomedical Investigationsâ€• (MIBBI) workshop. Standards in Genomic Sciences, 2010, 3, 259-266.	1.5	32
46	Sharing and archiving nucleic acid structure mapping data. Rna, 2011, 17, 1204-1212.	3.5	28
47	From Peer-Reviewed to Peer-Reproduced in Scholarly Publishing: The Complementary Roles of Data Models and Workflows in Bioinformatics. PLoS ONE, 2015, 10, e0127612.	2.5	27
48	Using Pathway Signatures as Means of Identifying Similarities among Microarray Experiments. PLoS ONE, 2009, 4, e4128.	2.5	25
49	The Risa R/Bioconductor package: integrative data analysis from experimental metadata and back again. BMC Bioinformatics, 2014, 15, S11.	2.6	22
50	Interoperable and scalable data analysis with microservices: applications in metabolomics. Bioinformatics, 2019, 35, 3752-3760.	4.1	22
51	Standard Annotation of Environmental OMICS Data: Application to the Transcriptomics Domain. OMICS A Journal of Integrative Biology, 2006, 10, 172-178.	2.0	21
52	Meeting Report: BioSharing at ISMB 2010. Standards in Genomic Sciences, 2010, 3, 254-258.	1.5	19
53	Visual Compression of Workflow Visualizations with Automated Detection of Macro Motifs. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2576-2585.	4.4	19
54	Standardizing data. Nature Nanotechnology, 2013, 8, 73-74.	31.5	19

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55	ISA API: An open platform for interoperable life science experimental metadata. GigaScience, 2021, 10, .	6.4	19
56	The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649.	1.6	19
57	Standardization Initiatives in the (eco)toxicogenomics Domain: A Review. Comparative and Functional Genomics, 2004, 5, 633-641.	2.0	17
58	Experiment design driven FAIRification of omics data matrices, an exemplar. Scientific Data, 2019, 6, 271.	5.3	14
59	Community standards for open cell migration data. GigaScience, 2020, 9, .	6.4	12
60	On the evolving portfolio of community-standards and data sharing policies: turning challenges into new opportunities. GigaScience, 2012, 1, 10.	6.4	11
61	The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649.	1.6	11
62	Helping the Consumers and Producers of Standards, Repositories and Policies to Enable FAIR Data. Data Intelligence, 2020, 2, 151-157.	1.5	10
63	The Data Tags Suite (DATS) model for discovering data access and use requirements. GigaScience, 2020, 9, .	6.4	9
64	Bio-GraphIIn: a graph-based, integrative and semantically-enabled repository for life science experimental data. EMBnet Journal, 2013, 19, 46.	0.6	9
65	Wrestling with SUMO and bio-ontologies. Nature Biotechnology, 2006, 24, 21-21.	17.5	8
66	Semantic concept schema of the linear mixed model of experimental observations. Scientific Data, 2020, 7, 70.	5.3	8
67	Road to effective data curation for translational research. Drug Discovery Today, 2021, 26, 626-630.	6.4	8
68	Overcoming the ontology enrichment bottleneck with Quick Term Templates. Applied Ontology, 2011, 6, 13-22.	2.0	7
69	graph2tab, a library to convert experimental workflow graphs into tabular formats. Bioinformatics, 2012, 28, 1665-1667.	4.1	7
70	Owner controlled data exchange in nutrigenomic collaborations: the NuGO information network. Genes and Nutrition, 2009, 4, 113-122.	2.5	5
71	Modeling a microbial community and biodiversity assay with OBO Foundry ontologies: the interoperability gains of a modular approach. Database: the Journal of Biological Databases and Curation, 2015, 2015, bau132-bau132.	3.0	5
72	Data discovery with DATS: exemplar adoptions and lessons learned. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 13-16.	4.4	5

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73	PlatformTM, a standards-based data custodianship platform for translational medicine research. Scientific Data, 2019, 6, 149.	5.3	5
74	Barely sufficient practices in scientific computing. Patterns, 2021, 2, 100206.	5.9	5
75	An Open Ecosystem for Pervasive Use of Persistent Identifiers. , 2020, , .		5
76	ELIXIR and Toxicology: a community in development. F1000Research, 0, 10, 1129.	1.6	3
77	Data storage: bringing us a step closer to data sharing?. British Journal of Nutrition, 2006, 95, 1237-1239.	2.3	2
78	Towards interoperable reporting standards for omics data: hopes and hurdles. Summit on Translational Bioinformatics, 2009, 2009, 112-5.	0.7	1
79	ELIXIR biovalidator for semantic validation of life science metadata. Bioinformatics, 2022, 38, 3141-3142.	4.1	1
80	Standards and infrastructure for managing experimental metadata. Nature Precedings, 2009, , .	0.1	0