Philip R O Payne

List of Publications by Year
in descending order

158 papers	3,422 citations	236925 25 h-index	182427 51 g-index
174 all docs	174 docs citations	174 times ranked	4750 citing authors

#	Article	IF	Citations
1	Caveats for the Use of Operational Electronic Health Record Data in Comparative Effectiveness Research. Medical Care, 2013, 51, S30-S37.	2.4	410
2	The National COVID Cohort Collaborative (N3C): Rationale, design, infrastructure, and deployment. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 427-443.	4.4	342
3	Time motion studies in healthcare: What are we talking about?. Journal of Biomedical Informatics, 2014, 49, 292-299.	4.3	199
4	Questions for Artificial Intelligence in Health Care. JAMA - Journal of the American Medical Association, 2019, 321, 31.	7.4	191
5	Clinical Characterization and Prediction of Clinical Severity of SARS-CoV-2 Infection Among US Adults Using Data From the US National COVID Cohort Collaborative. JAMA Network Open, 2021, 4, e2116901.	5.9	179
6	Clinical Research Informatics: Challenges, Opportunities and Definition for an Emerging Domain. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 316-327.	4.4	145
7	Breaking the Translational Barriers: The Value of Integrating Biomedical Informatics and Translational Research. Journal of Investigative Medicine, 2005, 53, 192-200.	1.6	86
8	Impact measures for libraries and information services. Library Hi Tech, 2006, 24, 547-562.	5.1	76
9	A protocol to evaluate RNA sequencing normalization methods. BMC Bioinformatics, 2019, 20, 679.	2.6	70
10	Synergistic Drug Combination Prediction by Integrating Multiomics Data in Deep Learning Models. Methods in Molecular Biology, 2021, 2194, 223-238.	0.9	68
11	Using gene co-expression network analysis to predict biomarkers for chronic lymphocytic leukemia. BMC Bioinformatics, 2010, 11, S5.	2.6	61
12	Evidence Generating Medicine. Medical Care, 2013, 51, S87-S91.	2.4	55
13	Use of electronic health records to support a public health response to the COVID-19 pandemic in the United States: a perspective from 15 academic medical centers. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 393-401.	4.4	54
14	Conceptual knowledge acquisition in biomedicine: A methodological review. Journal of Biomedical Informatics, 2007, 40, 582-602.	4.3	53
15	Translational informatics: enabling high-throughput research paradigms. Physiological Genomics, 2009, 39, 131-140.	2.3	52
16	Machine learning for modeling the progression of Alzheimer disease dementia using clinical data: a systematic literature review. JAMIA Open, 2021, 4, ooab052.	2.0	44
17	â€˜RE:fine drugsâ€™: an interactive dashboard to access drug repurposing opportunities. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw083.	3.0	41
18	Recommendations for the Use of Operational Electronic Health Record Data in Comparative Effectiveness Research. EGEMS (Washington, DC), 2017, 1, 14.	2.0	41

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19	Community-level determinants of obesity: harnessing the power of electronic health records for retrospective data analysis. BMC Medical Informatics and Decision Making, 2014, 14, 36.	3.0	39
20	Synergy from gene expression and network mining (SynGeNet) method predicts synergistic drug combinations for diverse melanoma genomic subtypes. Npj Systems Biology and Applications, 2019, 5, 6.	3.0	36
21	Heart Failure Diagnosis, Readmission, and Mortality Prediction Using Machine Learning and Artificial Intelligence Models. Current Epidemiology Reports, 2020, 7, 212-219.	2.4	35
22	Spot the difference: comparing results of analyses from real patient data and synthetic derivatives. JAMIA Open, 2021, 3, 557-566.	2.0	33
23	Biomedical Informatics and Outcomes Research. Circulation, 2009, 120, 2393-2399.	1.6	32
24	Association of Early Aspirin Use With In-Hospital Mortality in Patients With Moderate COVID-19. JAMA Network Open, 2022, 5, e223890.	5.9	31
25	Computational challenges and human factors influencing the design and use of clinical research participant eligibility pre-screening tools. BMC Medical Informatics and Decision Making, 2012, 12, 47.	3.0	29
26	Transmission dynamics: Data sharing in the <scp>COVID</scp>â€19 era. Learning Health Systems, 2021, 5, e10235.	2.0	28
27	Scalable Architecture for Federated Translational Inquiries Network (SAFTINet) Technology Infrastructure for a Distributed Data Network. EGEMS (Washington, DC), 2017, 1, 11.	2.0	27
28	EHR-based Visualization Tool: Adoption Rates, Satisfaction, and Patient Outcomes. EGEMS (Washington, DC), 2017, 3, 5.	2.0	26
29	Assessment of Life's Simple 7â„¢ in the primary care setting: The Stroke Prevention in Healthcare Delivery EnviRonmEnts (SPHERE) study. Contemporary Clinical Trials, 2014, 38, 182-189.	1.8	25
30	Plasma MicroRNA Levels Following Resection of Metastatic Melanoma. Bioinformatics and Biology Insights, 2017, 11, 117793221769483.	2.0	25
31	Transcriptomics-Based Drug Repurposing Approach Identifies Novel Drugs against Sorafenib-Resistant Hepatocellular Carcinoma. Cancers, 2020, 12, 2730.	3.7	24
32	Quantifying Visual Similarity in Clinical Iconic Graphics. Journal of the American Medical Informatics Association: JAMIA, 2005, 12, 338-345.	4.4	22
33	Validation of an LCâ€MS based approach for profiling histones in chronic lymphocytic leukemia. Proteomics, 2009, 9, 1197-1206.	2.2	22
34	Chapter 1: Biomedical Knowledge Integration. PLoS Computational Biology, 2012, 8, e1002826.	3.2	21
35	Rethinking the role and impact of health information technology: informatics as an interventional discipline. BMC Medical Informatics and Decision Making, 2016, 16, 40.	3.0	21
36	Developing realâ€world evidence from realâ€world data: Transforming raw data into analytical datasets. Learning Health Systems, 2022, 6, e10293.	2.0	21

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37	Foundational biomedical informatics research in the clinical and translational science era: a call to action. Journal of the American Medical Informatics Association: JAMIA, 2010, 17, 615-616.	4.4	19
38	Global microRNA profiling for diagnostic appraisal of melanocytic Spitz tumors. Journal of Surgical Research, 2016, 205, 350-358.	1.6	18
39	Electronic health record-based assessment of cardiovascular health: The stroke prevention in healthcare delivery environments (SPHERE) study. Preventive Medicine Reports, 2016, 4, 303-308.	1.8	18
40	Are Synthetic Data Derivatives the Future of Translational Medicine?. JACC Basic To Translational Science, 2018, 3, 716-718.	4.1	18
41	Computational analysis to repurpose drugs for COVID-19 based on transcriptional response of host cells to SARS-CoV-2. BMC Medical Informatics and Decision Making, 2021, 21, 15.	3.0	18
42	Conceptual considerations for using EHR-based activity logs to measure clinician burnout and its effects. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1032-1037.	4.4	18
43	TRIAD: The Translational Research Informatics and Data Management Grid. Applied Clinical Informatics, 2011, 02, 331-344.	1.7	17
44	Health-care hit or miss?. Nature, 2011, 470, 327-329.	27.8	17
45	Standardizing Clinical Trials Workflow Representation in UML for International Site Comparison. PLoS ONE, 2010, 5, e13893.	2.5	17
46	A day in the life of a clinical research coordinator: observations from community practice settings. Studies in Health Technology and Informatics, 2007, 129, 247-51.	0.3	16
47	e-Science, caGrid, and Translational Biomedical Research. Computer, 2008, 41, 58-66.	1.1	15
48	Gene expression profiling of the human natural killer cell response to Fc receptor activation: unique enhancement in the presence of interleukin-12. BMC Medical Genomics, 2015, 8, 66.	1.5	15
49	Comparison of Sepsis Definitions as Automated Criteria. Critical Care Medicine, 2021, 49, e433-e443.	0.9	15
50	Inter-observer reliability assessments in time motion studies: the foundation for meaningful clinical workflow analysis. AMIA ... Annual Symposium proceedings, 2013, 2013, 889-96.	0.2	15
51	The geographic distribution of cardiovascular health in the stroke prevention in healthcare delivery environments (SPHERE) study. Journal of Biomedical Informatics, 2016, 60, 95-103.	4.3	14
52	MD-Miner: a network-based approach for personalized drug repositioning. BMC Systems Biology, 2017, 11, 86.	3.0	14
53	Supporting the design of translational clinical studies through the generation and verification of conceptual knowledge-anchored hypotheses. AMIA ... Annual Symposium proceedings, 2008, , 566-70.	0.2	14
54	Transactional Database Transformation and Its Application in Prioritizing Human Disease Genes. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 294-304.	3.0	13

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55	Biomedical informatics meets data science: current state and future directions for interaction. JAMIA Open, 2018, 1, 136-141.	2.0	13
56	k-Neighborhood decentralization: A comprehensive solution to index the UMLS for large scale knowledge discovery. Journal of Biomedical Informatics, 2012, 45, 323-336.	4.3	12
57	People, organizational, and leadership factors impacting informatics support for clinical and translational research. BMC Medical Informatics and Decision Making, 2013, 13, 20.	3.0	12
58	Advancing methodologies in Clinical Research Informatics (CRI): Foundational work for a maturing field. Journal of Biomedical Informatics, 2014, 52, 1-3.	4.3	12
59	Interdisciplinary training to build an informatics workforce for precision medicine. Applied & Translational Genomics, 2015, 6, 28-30.	2.1	12
60	Classification of Indeterminate Melanocytic Lesions by MicroRNA Profiling. Annals of Surgical Oncology, 2017, 24, 347-354.	1.5	12
61	Using REDCap and Apple ResearchKit to integrate patient questionnaires and clinical decision support into the electronic health record to improve sexually transmitted infection testing in the emergency department. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 265-273.	4.4	12
62	When past is not a prologue: Adapting informatics practice during a pandemic. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1142-1146.	4.4	12
63	A retrospective look at the predictions and recommendations from the 2009 AMIA policy meeting: did we see EHR-related clinician burnout coming?. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 948-954.	4.4	12
64	Modeling clinical trials workflow in community practice settings. AMIA ... Annual Symposium proceedings, 2006, , 419-23.	0.2	12
65	A Pragmatic Machine Learning Model To Predict Carbapenem Resistance. Antimicrobial Agents and Chemotherapy, 2021, 65, e0006321.	3.2	11
66	Ten principles for data sharing and commercialization. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 646-649.	4.4	11
67	Enabling Open Science for Health Research: Collaborative Informatics Environment for Learning on Health Outcomes (CIELO). Journal of Medical Internet Research, 2017, 19, e276.	4.3	10
68	Ontology-anchored Approaches to Conceptual Knowledge Discovery in a Multi-dimensional Research Data Repository. Summit on Translational Bioinformatics, 2008, 2008, 85-9.	0.7	10
69	Multi-dimensional discovery of biomarker and phenotype complexes. BMC Bioinformatics, 2010, 11, S3.	2.6	9
70	Diffusion mapping of drug targets on disease signaling network elements reveals drug combination strategies. , 2018, , .		9
71	A roadmap for caGrid, an enterprise Grid architecture for biomedical research. Studies in Health Technology and Informatics, 2008, 138, 224-37.	0.3	9
72	Integrative network and transcriptomics-based approach predicts genotype- specific drug combinations for melanoma. AMIA Summits on Translational Science Proceedings, 2017, 2017, 247-256.	0.4	9

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73	From Molecules to Patients: The Clinical Applications of Translational Bioinformatics. Yearbook of Medical Informatics, 2015, 24, 164-169.	1.0	8
74	CytoGPS: a web-enabled karyotype analysis tool for cytogenetics. Bioinformatics, 2019, 35, 5365-5366.	4.1	8
75	Cognitive plausibility in voice-based AI health counselors. Npj Digital Medicine, 2020, 3, 72.	10.9	8
76	The National COVID Cohort Collaborative: Analyses of Original and Computationally Derived Electronic Health Record Data. Journal of Medical Internet Research, 2021, 23, e30697.	4.3	8
77	Demonstrating an approach for evaluating synthetic geospatial and temporal epidemiologic data utility: results from analyzing >1.8 million SARS-CoV-2 tests in the United States National COVID Cohort Collaborative (N3C). Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1350-1365.	4.4	8
78	A Knowledge-Anchored Integrative Image Search and Retrieval System. Journal of Digital Imaging, 2009, 22, 166-182.	2.9	7
79	Knowledge Management and Informatics Considerations for Comparative Effectiveness Research. Medical Care, 2013, 51, S38-S44.	2.4	7
80	Language matters: precision health as a cross-cutting care, research and policy agenda. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 658-661.	4.4	7
81	Comparison of early warning scores for sepsis early identification and prediction in the general ward setting. JAMIA Open, 2021, 4, ooab062.	2.0	7
82	Advancing User Experience Research to Facilitate and Enable Patient Centered Research: Current State and Future Directions. EGEMS (Washington, DC), 2017, 1, 10.	2.0	7
83	Enabling Online Studies of Conceptual Relationships Between Medical Terms: Developing an Efficient Web Platform. JMIR Medical Informatics, 2014, 2, e23.	2.6	7
84	CRC Clinical Trials Management System (CTMS): an integrated information management solution for collaborative clinical research. AMIA ... Annual Symposium proceedings, 2003, , 967.	0.2	7
85	Counting on making a difference: assessing our impact. VINE: the Journal of Information and Knowledge Management Systems, 2004, 34, 176-183.	1.0	6
86	Predictive Modeling for Clinical Features Associated With Neurofibromatosis Type 1. Neurology: Clinical Practice, 2021, 11, 497-505.	1.6	6
87	Modeling participant-related clinical research events using conceptual knowledge acquisition techniques. AMIA ... Annual Symposium proceedings, 2007, , 593-7.	0.2	6
88	Identifying challenges and opportunities in clinical research informatics: analysis of a facilitated discussion at the 2006 AMIA Annual Symposium. AMIA ... Annual Symposium proceedings, 2007, , 221-5.	0.2	6
89	Evaluating an NLP-based approach to modeling computable clinical trial eligibility criteria. AMIA ... Annual Symposium proceedings, 2007, , 878.	0.2	6
90	The design of a pre-encounter clinical trial screening tool: ASAP. AMIA ... Annual Symposium proceedings, 2008, , 931.	0.2	6

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91	Towards a â€œ4Iâ€•approach to personalized healthcare. Clinical and Translational Medicine, 2012, 1, 14.	4.0	5
92	A Review of Clinical Workflow Studies and Methods. Computers in Health Care, 2019, , 47-61.	0.3	5
93	The Impact of Libraries on Learning, Teaching and Research. Library and Information Research News, 2009, 25, 18-22.	0.1	5
94	Human computer interaction issues in Clinical Trials Management Systems. AMIA ... Annual Symposium proceedings, 2006, , 1109.	0.2	5
95	Text Mining and Data Modeling of Karyotypes to aid in Drug Repurposing Efforts. Studies in Health Technology and Informatics, 2015, 216, 1037.	0.3	5
96	Diffusion mapping of drug targets on disease signaling network elements reveals drug combination strategies. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2018, 23, 92-103.	0.7	5
97	Presentation discovery. , 2006, , .		4
98	Improving Clinical Trial Participant Tracking Tools Using Knowledge-anchored Design Methodologies. Applied Clinical Informatics, 2010, 01, 177-196.	1.7	4
99	Research-IQ: Development and evaluation of an ontology-anchored integrative query tool. Journal of Biomedical Informatics, 2011, 44, S56-S62.	4.3	4
100	MicroRNA profiling of patient plasma for clinical trials using bioinformatics and biostatistical approaches. OncoTargets and Therapy, 2016, Volume 9, 5931-5941.	2.0	4
101	Open Science and the Future of Data Analytics. , 2019, , 337-357.		4
102	Addressing cancer survivorsâ€™ cardiovascular health using the automated heart health assessment (AH-HA) EHR tool: Initial protocol and modifications to address COVID-19 challenges. Contemporary Clinical Trials Communications, 2021, 22, 100808.	1.1	4
103	Better together: Integrating biomedical informatics and healthcare <scp>IT</scp> operations to create a learning health system during the <scp>COVID</scp> â€19 pandemic. Learning Health Systems, 2022, 6, e10309.	2.0	4
104	Effect of clinician attention switching on workload and wrong-patient errors. British Journal of Anaesthesia, 2022, 129, e22-e24.	3.4	4
105	Selected Papers from the 2011 Summit on Clinical Research Informatics. Journal of Biomedical Informatics, 2011, 44, S54-S55.	4.3	3
106	The TOKEn project: knowledge synthesis for in silico science. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, i125-i131.	4.4	3
107	Evaluating the impact of conceptual knowledge engineering on the design and usability of a clinical and translational science collaboration portal. Summit on Translational Bioinformatics, 2010, 2010, 41-5.	0.7	3
108	Development of an agile knowledge engineering framework in support of multi-disciplinary translational research. Summit on Translational Bioinformatics, 2009, 2009, 14-8.	0.7	3

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109	Predicting Tumor Cell Response to Synergistic Drug Combinations Using a Novel Simplified Deep Learning Model. AMIA ... Annual Symposium proceedings, 2020, 2020, 1364-1372.	0.2	3
110	THE ORIGINALITY OF TEXT-CRITICAL SYMBOLS IN CODEX VATICANUS. Novum Testamentum, 2000, 42, 105-113.	0.0	2
111	Drug Repurposing Hypothesis Generation Using the "RE:fine Drugs" System. Journal of Visualized Experiments, 2016, , .	0.3	2
112	Democratizing Health Data for Translational Research. , 2018, , .		2
113	CytoGPS: A large-scale karyotype analysis of CML data. Cancer Genetics, 2020, 248-249, 34-38.	0.4	2
114	Pattern recognition in lymphoid malignancies using CytoGPS and Mercator. BMC Bioinformatics, 2021, 22, 100.	2.6	2
115	Coverage of clinical trials tasks in existing ontologies. AMIA ... Annual Symposium proceedings, 2006, , 903.	0.2	2
116	Conceptual dissonance: evaluating the efficacy of natural language processing techniques for validating translational knowledge constructs. Summit on Translational Bioinformatics, 2009, 2009, 95-9.	0.7	2
117	Adoption and Adaptation of caGrid for CTSA. Summit on Translational Bioinformatics, 2009, 2009, 44-8.	0.7	2
118	Towards symbiosis in knowledge representation and natural language processing for structuring clinical practice guidelines. Studies in Health Technology and Informatics, 2014, 201, 461-9.	0.3	2
119	Conceptual Knowledge Discovery in Databases for Drug Combinations Predictions in Malignant Melanoma. Studies in Health Technology and Informatics, 2015, 216, 663-7.	0.3	2
120	Respiratory support status from EHR data for adult population: classification, heuristics, and usage in predictive modeling. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 813-821.	4.4	2
121	Impact of Riskâ€based Sexually Transmitted Infection Screening in the Emergency Department. Academic Emergency Medicine, 2022, , .	1.8	2
122	Driving Clinical and Translational Research Using Biomedical Informatics. Computers in Health Care, 2015, , 99-117.	0.3	1
123	The diversity and disparity in biomedical informatics (DDBI) workshop. , 2018, , .		1
124	Mining reported adverse events induced by potential opioid-drug interactions. JAMIA Open, 2020, 3, 104-112.	2.0	1
125	Clinical Research Informatics. , 2021, , 913-940.		1
126	Future Directions for Translational Informatics. Computers in Health Care, 2015, , 165-178.	0.3	1

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127	DISCOVERY OF MOLECULARLY TARGETED THERAPIES. , 2016, , .		1
128	Sustainability Through Technology Licensing and Commercialization: Lessons Learned from the TRIAD Project. EGEMS (Washington, DC), 2017, 2, 2.	2.0	1
129	The Clinical Research Environment. Computers in Health Care, 2012, , 27-48.	0.3	1
130	Clinical Research Informatics. , 2014, , 755-777.		1
131	The Clinical Research Environment. Computers in Health Care, 2019, , 27-47.	0.3	1
132	Quantifying visual similarity in clinical iconic graphics. AMIA ... Annual Symposium proceedings, 2003, , 1016.	0.2	1
133	Consensus-based construction of a taxonomy of clinical trial tasks. AMIA ... Annual Symposium proceedings, 2006, , 1059.	0.2	1
134	Foundations for Studying Clinical Workflow: Development of a Composite Inter-Observer Reliability Assessment for Workflow Time Studies. AMIA ... Annual Symposium proceedings, 2019, 2019, 617-626.	0.2	1
135	Development of an ontology-anchored data warehouse meta-model. AMIA ... Annual Symposium proceedings, 2007, , 1001.	0.2	1
136	Implementation of a metadata architecture and knowledge collection to support semantic interoperability in an enterprise data warehouse. AMIA ... Annual Symposium proceedings, 2008, , 929.	0.2	1
137	A Metadata based Knowledge Discovery Methodology for Seeding Translational Research. Studies in Health Technology and Informatics, 2015, 216, 1071.	0.3	1
138	Democratizing Health Data for Translational Research. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2018, 23, 240-246.	0.7	1
139	Learning from data: A recurring feature on the science and practice of <scp>dataâ€driven</scp> learning health systems. Learning Health Systems, 2022, 6, e10302.	2.0	1
140	Apocalypse and utopia in the Austrian novel of the 1930s. , 2004, , 93-109.		0
141	Clinical Attribute Network for Chronic Lymphocytic Leukemia. , 2009, , .		0
142	Applying knowledge-anchored hypothesis discovery methods to advance clinical and translational research: the OAMiner project. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 1110-1114.	4.4	0
143	From Data to Knowledge. , 2017, , 89-104.		0
144	Comparison of Electric Wheelchair Control Systems in a Virtual Environment. , 2018, , .		0

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145	17. CytoGPS: A novel bioinformatics approach for high-throughput karyotype analysis. Cancer Genetics, 2018, 224-225, 56-57.	0.4	0
146	The â€˜full stackâ€™ of healthcare innovation skills: combining clinical informatics with care delivery innovation. Personalized Medicine, 2019, 16, 9-14.	1.5	0
147	CACSE: Context Aware Clustering of Stellar Evolution. , 2021, , .		0
148	Authentication and Authorization in Cancer Research Systems. , 2010, , 279-290.		0
149	Optimization of miRNA profiling techniques for melanoma and pancreatic cancer clinical trials.. Journal of Clinical Oncology, 2015, 33, e22065-e22065.	1.6	0
150	A Distributed International Patient Data Registry for Hairy Cell Leukemia. Blood, 2016, 128, 5986-5986.	1.4	0
151	Abstract 1562: Drug repurposing for hepatocellular carcinoma enabled via transcriptomics data from experimental models of sorafenib resistance. , 2017, , .		0
152	Organizational frameworks. , 2018, , 19-55.		0
153	Novel techniques for survey and classification studies to improve patient centered websites. AMIA ... Annual Symposium proceedings, 2006, , 891.	0.2	0
154	ResearchIQ: Design of a Semantically Anchored Integrative Query Tool. AMIA Summits on Translational Science Proceedings, 2015, 2015, 97-101.	0.4	0
155	Domain Analysis of Integrated Data to Reduce Cost Associated with Liver Disease. Studies in Health Technology and Informatics, 2015, 216, 414-8.	0.3	0
156	DISCOVERY OF MOLECULARLY TARGETED THERAPIES. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2016, 21, 1-8.	0.7	0
157	Real-time Data Fusion Platforms: The Need of Multi-dimensional Data-driven Research in Biomedical Informatics. Studies in Health Technology and Informatics, 2015, 216, 1107.	0.3	0
158	Sepsis Prediction for the General Ward Setting. Frontiers in Digital Health, 2022, 4, 848599.	2.8	0