

# David Scott Wishart

## List of Publications by Year in descending order

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419  
papers

86,667  
citations

1094

112  
h-index

381

280  
g-index

429  
all docs

429  
docs citations

429  
times ranked

93996  
citing authors

#	ARTICLE	IF	CITATIONS
1	DrugBank 5.0: a major update to the DrugBank database for 2018. <i>Nucleic Acids Research</i> , 2018, 46, D1074-D1082.	6.5	5,428
2	MetaboAnalyst 4.0: towards more transparent and integrative metabolomics analysis. <i>Nucleic Acids Research</i> , 2018, 46, W486-W494.	6.5	3,199
3	PHASTER: a better, faster version of the PHAST phage search tool. <i>Nucleic Acids Research</i> , 2016, 44, W16-W21.	6.5	3,133
4	DrugBank: a comprehensive resource for in silico drug discovery and exploration. <i>Nucleic Acids Research</i> , 2006, 34, D668-D672.	6.5	3,070
5	HMDB 4.0: the human metabolome database for 2018. <i>Nucleic Acids Research</i> , 2018, 46, D608-D617.	6.5	2,805
6	HMDB 3.0 – The Human Metabolome Database in 2013. <i>Nucleic Acids Research</i> , 2012, 41, D801-D807.	6.5	2,564
7	HMDB: the Human Metabolome Database. <i>Nucleic Acids Research</i> , 2007, 35, D521-D526.	6.5	2,563
8	MetaboAnalyst 3.0 – making metabolomics more meaningful. <i>Nucleic Acids Research</i> , 2015, 43, W251-W257.	6.5	2,493
9	DrugBank: a knowledgebase for drugs, drug actions and drug targets. <i>Nucleic Acids Research</i> , 2008, 36, D901-D906.	6.5	2,336
10	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N chemical shift referencing in biomolecular NMR. <i>Journal of Biomolecular NMR</i> , 1995, 6, 135-140.	1.6	2,216
11	PHAST: A Fast Phage Search Tool. <i>Nucleic Acids Research</i> , 2011, 39, W347-W352.	6.5	1,967
12	DrugBank 4.0: shedding new light on drug metabolism. <i>Nucleic Acids Research</i> , 2014, 42, D1091-D1097.	6.5	1,884
13	Heatmapper: web-enabled heat mapping for all. <i>Nucleic Acids Research</i> , 2016, 44, W147-W153.	6.5	1,766
14	MetaboAnalyst: a web server for metabolomic data analysis and interpretation. <i>Nucleic Acids Research</i> , 2009, 37, W652-W660.	6.5	1,674
15	HMDB: a knowledgebase for the human metabolome. <i>Nucleic Acids Research</i> , 2009, 37, D603-D610.	6.5	1,649
16	Using MetaboAnalyst 4.0 for Comprehensive and Integrative Metabolomics Data Analysis. <i>Current Protocols in Bioinformatics</i> , 2019, 68, e86.	25.8	1,644
17	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N random coil NMR chemical shifts of the common amino acids. I. Investigations of nearest-neighbor effects. <i>Journal of Biomolecular NMR</i> , 1995, 5, 67-81.	1.6	1,604
18	DrugBank 3.0: a comprehensive resource for 'Omics' research on drugs. <i>Nucleic Acids Research</i> , 2011, 39, D1035-D1041.	6.5	1,566

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19	The Human Serum Metabolome. PLoS ONE, 2011, 6, e16957.	1.1	1,378
20	Using MetaboAnalyst 3.0 for Comprehensive Metabolomics Data Analysis. Current Protocols in Bioinformatics, 2016, 55, 14.10.1-14.10.91.	25.8	1,293
21	The Human Urine Metabolome. PLoS ONE, 2013, 8, e73076.	1.1	1,125
22	MetaboAnalyst 2.0--a comprehensive server for metabolomic data analysis. Nucleic Acids Research, 2012, 40, W127-W133.	6.5	1,058
23	Emerging applications of metabolomics in drug discovery and precision medicine. Nature Reviews Drug Discovery, 2016, 15, 473-484.	21.5	1,029
24	Web-based inference of biological patterns, functions and pathways from metabolomic data using MetaboAnalyst. Nature Protocols, 2011, 6, 743-760.	5.5	976
25	Circular genome visualization and exploration using CGView. Bioinformatics, 2005, 21, 537-539.	1.8	887
26	[12] Chemical shifts as a tool for structure determination. Methods in Enzymology, 1994, 239, 363-392.	0.4	803
27	ClassyFire: automated chemical classification with a comprehensive, computable taxonomy. Journal of Cheminformatics, 2016, 8, 61.	2.8	779
28	Translational biomarker discovery in clinical metabolomics: an introductory tutorial. Metabolomics, 2013, 9, 280-299.	1.4	765
29	VADAR: a web server for quantitative evaluation of protein structure quality. Nucleic Acids Research, 2003, 31, 3316-3319.	6.5	742
30	HMDB 5.0: the Human Metabolome Database for 2022. Nucleic Acids Research, 2022, 50, D622-D631.	6.5	736
31	The future of NMR-based metabolomics. Current Opinion in Biotechnology, 2017, 43, 34-40.	3.3	651
32	NMR Spectroscopy for Metabolomics Research. Metabolites, 2019, 9, 123.	1.3	627
33	MetPA: a web-based metabolomics tool for pathway analysis and visualization. Bioinformatics, 2010, 26, 2342-2344.	1.8	624
34	Escherichia coli K-12: a cooperatively developed annotation snapshot--2005. Nucleic Acids Research, 2006, 34, 1-9.	6.5	606
35	Phenol-Explorer 3.0: a major update of the Phenol-Explorer database to incorporate data on the effects of food processing on polyphenol content. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat070-bat070.	1.4	590
36	MSEA: a web-based tool to identify biologically meaningful patterns in quantitative metabolomic data. Nucleic Acids Research, 2010, 38, W71-W77.	6.5	582

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37	SHIFTX2: significantly improved protein chemical shift prediction. <i>Journal of Biomolecular NMR</i> , 2011, 50, 43-57.	1.6	575
38	Metabolomics: applications to food science and nutrition research. <i>Trends in Food Science and Technology</i> , 2008, 19, 482-493.	7.8	561
39	SuperPose: a simple server for sophisticated structural superposition. <i>Nucleic Acids Research</i> , 2004, 32, W590-W594.	6.5	548
40	Applications of Machine Learning in Cancer Prediction and Prognosis. <i>Cancer Informatics</i> , 2006, 2, 117693510600200.	0.9	539
41	Metabolomics for Investigating Physiological and Pathophysiological Processes. <i>Physiological Reviews</i> , 2019, 99, 1819-1875.	13.1	516
42	Rapid and accurate calculation of protein 1H, 13C and 15N chemical shifts. <i>Journal of Biomolecular NMR</i> , 2003, 26, 215-240.	1.6	492
43	Quantitative metabolomics using NMR. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 228-237.	5.8	484
44	Mass-spectrometry-based metabolomics: limitations and recommendations for future progress with particular focus on nutrition research. <i>Metabolomics</i> , 2009, 5, 435-458.	1.4	462
45	Metabolomics enables precision medicine: "A White Paper, Community Perspective" <i>Metabolomics</i> , 2016, 12, 149.	1.4	434
46	The food metabolome: a window over dietary exposure. <i>American Journal of Clinical Nutrition</i> , 2014, 99, 1286-1308.	2.2	411
47	RefDB: a database of uniformly referenced protein chemical shifts. <i>Journal of Biomolecular NMR</i> , 2003, 25, 173-195.	1.6	391
48	Systems Biology and Multi-Omics Integration: Viewpoints from the Metabolomics Research Community. <i>Metabolites</i> , 2019, 9, 76.	1.3	387
49	A Simple Method To Predict Protein Flexibility Using Secondary Chemical Shifts. <i>Journal of the American Chemical Society</i> , 2005, 127, 14970-14971.	6.6	375
50	CFM-ID: a web server for annotation, spectrum prediction and metabolite identification from tandem mass spectra. <i>Nucleic Acids Research</i> , 2014, 42, W94-W99.	6.5	369
51	METAGENassist: a comprehensive web server for comparative metagenomics. <i>Nucleic Acids Research</i> , 2012, 40, W88-W95.	6.5	345
52	SMPDB 2.0: Big Improvements to the Small Molecule Pathway Database. <i>Nucleic Acids Research</i> , 2014, 42, D478-D484.	6.5	341
53	Use of Chemical Shifts in Macromolecular Structure Determination. <i>Methods in Enzymology</i> , 2002, 338, 3-34.	0.4	320
54	Competitive fragmentation modeling of ESI-MS/MS spectra for putative metabolite identification. <i>Metabolomics</i> , 2015, 11, 98-110.	1.4	319

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55	The human cerebrospinal fluid metabolome. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 164-173.	1.2	307
56	BASys: a web server for automated bacterial genome annotation. <i>Nucleic Acids Research</i> , 2005, 33, W455-W459.	6.5	290
57	SMPDB: The Small Molecule Pathway Database. <i>Nucleic Acids Research</i> , 2010, 38, D480-D487.	6.5	290
58	The Blood Exposome and Its Role in Discovering Causes of Disease. <i>Environmental Health Perspectives</i> , 2014, 122, 769-774.	2.8	283
59	BioTransformer: a comprehensive computational tool for small molecule metabolism prediction and metabolite identification. <i>Journal of Cheminformatics</i> , 2019, 11, 2.	2.8	269
60	Applications of machine learning in cancer prediction and prognosis. <i>Cancer Informatics</i> , 2007, 2, 59-77.	0.9	254
61	Advances in metabolite identification. <i>Bioanalysis</i> , 2011, 3, 1769-1782.	0.6	238
62	Intermolecular transmission of superoxide dismutase 1 misfolding in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16398-16403.	3.3	234
63	T3DB: the toxic exposome database. <i>Nucleic Acids Research</i> , 2015, 43, D928-D934.	6.5	228
64	Livestock metabolomics and the livestock metabolome: A systematic review. <i>PLoS ONE</i> , 2017, 12, e0177675.	1.1	226
65	PolySearch: a web-based text mining system for extracting relationships between human diseases, genes, mutations, drugs and metabolites. <i>Nucleic Acids Research</i> , 2008, 36, W399-W405.	6.5	217
66	Interpreting protein chemical shift data. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2011, 58, 62-87.	3.9	206
67	Accurate, Fully-Automated NMR Spectral Profiling for Metabolomics. <i>PLoS ONE</i> , 2015, 10, e0124219.	1.1	206
68	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. <i>Metabolomics</i> , 2015, 11, 872-894.	1.4	196
69	CFM-ID 3.0: Significantly Improved ESI-MS/MS Prediction and Compound Identification. <i>Metabolites</i> , 2019, 9, 72.	1.3	196
70	An NMR approach to structural proteomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1825-1830.	3.3	195
71	pE-DB: a database of structural ensembles of intrinsically disordered and of unfolded proteins. <i>Nucleic Acids Research</i> , 2014, 42, D326-D335.	6.5	195
72	The human saliva metabolome. <i>Metabolomics</i> , 2015, 11, 1864-1883.	1.4	195

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73	CS23D: a web server for rapid protein structure generation using NMR chemical shifts and sequence data. <i>Nucleic Acids Research</i> , 2008, 36, W496-W502.	6.5	190
74	Metabolomic Data Processing, Analysis, and Interpretation Using MetaboAnalyst. <i>Current Protocols in Bioinformatics</i> , 2011, 34, Unit 14.10.	25.8	190
75	Improved Glucose Homeostasis in Obese Mice Treated With Resveratrol Is Associated With Alterations in the Gut Microbiome. <i>Diabetes</i> , 2017, 66, 418-425.	0.3	189
76	A review on human fecal metabolomics: Methods, applications and the human fecal metabolome database. <i>Analytica Chimica Acta</i> , 2018, 1030, 1-24.	2.6	187
77	Current Progress in computational metabolomics. <i>Briefings in Bioinformatics</i> , 2007, 8, 279-293.	3.2	185
78	MyCompoundID: Using an Evidence-Based Metabolome Library for Metabolite Identification. <i>Analytical Chemistry</i> , 2013, 85, 3401-3408.	3.2	185
79	Databases on Food Phytochemicals and Their Health-Promoting Effects. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4331-4348.	2.4	183
80	The CyberCell Database (CCDB): a comprehensive, self-updating, relational database to coordinate and facilitate in silico modeling of <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2004, 32, 293D-295.	6.5	178
81	Protein chemical shift analysis: a practical guide. <i>Biochemistry and Cell Biology</i> , 1998, 76, 153-163.	0.9	176
82	Applications of Metabolomics in Drug Discovery and Development. <i>Drugs in R and D</i> , 2008, 9, 307-322.	1.1	174
83	Metabolomics reveals unhealthy alterations in rumen metabolism with increased proportion of cereal grain in the diet of dairy cows. <i>Metabolomics</i> , 2010, 6, 583-594.	1.4	174
84	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800384.	1.5	173
85	Modulation of Structure and Antibacterial and Hemolytic Activity by Ring Size in Cyclic Gramicidin S Analogs. <i>Journal of Biological Chemistry</i> , 1996, 271, 25261-25268.	1.6	172
86	Predictive Models for Breast Cancer Susceptibility from Multiple Single Nucleotide Polymorphisms. <i>Clinical Cancer Research</i> , 2004, 10, 2725-2737.	3.2	171
87	PREDITOR: a web server for predicting protein torsion angle restraints. <i>Nucleic Acids Research</i> , 2006, 34, W63-W69.	6.5	171
88	MetaboMiner – semi-automated identification of metabolites from 2D NMR spectra of complex biofluids. <i>BMC Bioinformatics</i> , 2008, 9, 507.	1.2	168
89	YMDB: the Yeast Metabolome Database. <i>Nucleic Acids Research</i> , 2012, 40, D815-D820.	6.5	162
90	INMEX – a web-based tool for integrative meta-analysis of expression data. <i>Nucleic Acids Research</i> , 2013, 41, W63-W70.	6.5	162

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91	Metabolomics: The Principles and Potential Applications to Transplantation. American Journal of Transplantation, 2005, 5, 2814-2820.	2.6	155
92	Recommendations of the wwPDB NMR Validation Task Force. Structure, 2013, 21, 1563-1570.	1.6	151
93	PHAST, PHASTER and PHASTEST: Tools for finding prophage in bacterial genomes. Briefings in Bioinformatics, 2019, 20, 1560-1567.	3.2	151
94	CFM-ID 4.0: More Accurate ESI-MS/MS Spectral Prediction and Compound Identification. Analytical Chemistry, 2021, 93, 11692-11700.	3.2	151
95	Metabolomic Fingerprint of Heart Failure with Preserved Ejection Fraction. PLoS ONE, 2015, 10, e0124844.	1.1	150
96	Gramicidin S is active against both gram-positive and gram-negative bacteria. International Journal of Peptide and Protein Research, 1996, 47, 460-466.	0.1	149
97	PolySearch2: a significantly improved text-mining system for discovering associations between human diseases, genes, drugs, metabolites, toxins and more. Nucleic Acids Research, 2015, 43, W535-W542.	6.5	143
98	Chemical Composition of Commercial Cow's Milk. Journal of Agricultural and Food Chemistry, 2019, 67, 4897-4914.	2.4	139
99	YMDB 2.0: a significantly expanded version of the yeast metabolome database. Nucleic Acids Research, 2017, 45, D440-D445.	6.5	137
100	Phenol-Explorer 2.0: a major update of the Phenol-Explorer database integrating data on polyphenol metabolism and pharmacokinetics in humans and experimental animals. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas031-bas031.	1.4	135
101	Computational systems biology in drug discovery and development: methods and applications. Drug Discovery Today, 2007, 12, 295-303.	3.2	132
102	The Bovine Ruminal Fluid Metabolome. Metabolomics, 2013, 9, 360-378.	1.4	130
103	NMR metabolomics: A look ahead. Journal of Magnetic Resonance, 2019, 306, 155-161.	1.2	129
104	CSI 3.0: a web server for identifying secondary and super-secondary structure in proteins using NMR chemical shifts. Nucleic Acids Research, 2015, 43, W370-W377.	6.5	128
105	T3DB: a comprehensively annotated database of common toxins and their targets. Nucleic Acids Research, 2010, 38, D781-D786.	6.5	126
106	Improving the accuracy of protein secondary structure prediction using structural alignment. BMC Bioinformatics, 2006, 7, 301.	1.2	124
107	ECMDB: The E. coli Metabolome Database. Nucleic Acids Research, 2012, 41, D625-D630.	6.5	122
108	Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. Journal of Proteome Research, 2016, 15, 360-373.	1.8	122

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109	ECMDB 2.0: A richer resource for understanding the biochemistry of <i>E. coli</i> . Nucleic Acids Research, 2016, 44, D495-D501.	6.5	121
110	Comparison of SDS- and methanol-assisted protein solubilization and digestion methods for <i>Escherichia coli</i> membrane proteome analysis by 2-D LC-MS/MS. Proteomics, 2007, 7, 484-493.	1.3	117
111	Towards automatic metabolomic profiling of high-resolution one-dimensional proton NMR spectra. Journal of Biomolecular NMR, 2011, 49, 307-323.	1.6	117
112	Fatty Acid Composition of Developing Sea Buckthorn ( <i>Hippophae rhamnoides</i> L.) Berry and the Transcriptome of the Mature Seed. PLoS ONE, 2012, 7, e34099.	1.1	117
113	Cancer Metabolomics and the Human Metabolome Database. Metabolites, 2016, 6, 10.	1.3	116
114	Multi-platform characterization of the human cerebrospinal fluid metabolome: a comprehensive and quantitative update. Genome Medicine, 2012, 4, 38.	3.6	113
115	Unusual $\beta$ -sheet periodicity in small cyclic peptides. Nature Structural Biology, 1998, 5, 284-288.	9.7	111
116	Identification of Bacteria Using Tandem Mass Spectrometry Combined with a Proteome Database and Statistical Scoring. Analytical Chemistry, 2004, 76, 2355-2366.	3.2	110
117	Is Cancer a Genetic Disease or a Metabolic Disease?. EBioMedicine, 2015, 2, 478-479.	2.7	110
118	Current and Future Perspectives on the Structural Identification of Small Molecules in Biological Systems. Metabolites, 2016, 6, 46.	1.3	110
119	Computational Prediction of Electron Ionization Mass Spectra to Assist in GC/MS Compound Identification. Analytical Chemistry, 2016, 88, 7689-7697.	3.2	109
120	Exposome-Explorer: a manually-curated database on biomarkers of exposure to dietary and environmental factors. Nucleic Acids Research, 2017, 45, D979-D984.	6.5	109
121	Recommended strategies for spectral processing and post-processing of 1D $^1\text{H-NMR}$ data of biofluids with a particular focus on urine. Metabolomics, 2018, 14, 31.	1.4	107
122	Acylcarnitines: Nomenclature, Biomarkers, Therapeutic Potential, Drug Targets, and Clinical Trials. Pharmacological Reviews, 2022, 74, 506-551.	7.1	106
123	Application of the random coil index to studying protein flexibility. Journal of Biomolecular NMR, 2008, 40, 31-48.	1.6	105
124	CEU Mass Mediator 3.0: A Metabolite Annotation Tool. Journal of Proteome Research, 2019, 18, 797-802.	1.8	104
125	Computational strategies for metabolite identification in metabolomics. Bioanalysis, 2009, 1, 1579-1596.	0.6	103
126	Metabolomics and first-trimester prediction of early-onset preeclampsia. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 1840-1847.	0.7	101



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127	Synthesis and Evaluation of Keto-Glutamine Analogues as Potent Inhibitors of Severe Acute Respiratory Syndrome 3CLpro. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 6113-6116.	2.9	98
128	Informatics and Data Analytics to Support Exposome-Based Discovery for Public Health. <i>Annual Review of Public Health</i> , 2017, 38, 279-294.	7.6	97
129	Probing the Structural Determinants of Type II $\alpha$ -Turn Formation in Peptides and Proteins. <i>Journal of the American Chemical Society</i> , 2002, 124, 1203-1213.	6.6	93
130	Proteome Analyst: custom predictions with explanations in a web-based tool for high-throughput proteome annotations. <i>Nucleic Acids Research</i> , 2004, 32, W365-W371.	6.5	93
131	Combining traditional dietary assessment methods with novel metabolomics techniques: present efforts by the Food Biomarker Alliance. <i>Proceedings of the Nutrition Society</i> , 2017, 76, 619-627.	0.4	93
132	Metabolomics Profiling of Critically Ill Coronavirus Disease 2019 Patients: Identification of Diagnostic and Prognostic Biomarkers. , 2020, 2, e0272.		92
133	Improving Early Drug Discovery through ADME Modelling. <i>Drugs in R and D</i> , 2007, 8, 349-362.	1.1	91
134	Solution Structure of Carnobacteriocin B2 and Implications for Structure-Activity Relationships among Type IIa Bacteriocins from Lactic Acid Bacteria. <i>Biochemistry</i> , 1999, 38, 15438-15447.	1.2	89
135	Automated <sup>1</sup> H and <sup>13</sup> C chemical shift prediction using the BioMagResBank. <i>Journal of Biomolecular NMR</i> , 1997, 10, 329-336.	1.6	85
136	Detailed Biophysical Characterization of the Acid-Induced PrP <sup>c</sup> to PrP <sup>Sc</sup> Conversion Process. <i>Biochemistry</i> , 2011, 50, 1162-1173.	1.2	85
137	The Metabolomic Profile of Umbilical Cord Blood in Neonatal Hypoxic Ischaemic Encephalopathy. <i>PLoS ONE</i> , 2012, 7, e50520.	1.1	84
138	Microbiome and metabolome modifying effects of several cardiovascular disease interventions in apo-E <sup>-/-</sup> mice. <i>Microbiome</i> , 2017, 5, 30.	4.9	83
139	PathBank: a comprehensive pathway database for model organisms. <i>Nucleic Acids Research</i> , 2020, 48, D470-D478.	6.5	83
140	PROSESS: a protein structure evaluation suite and server. <i>Nucleic Acids Research</i> , 2010, 38, W633-W640.	6.5	82
141	PROTEUS2: a web server for comprehensive protein structure prediction and structure-based annotation. <i>Nucleic Acids Research</i> , 2008, 36, W202-W209.	6.5	81
142	Calculation of Local Water Densities in Biological Systems: A Comparison of Molecular Dynamics Simulations and the 3D-RISM-KH Molecular Theory of Solvation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 319-328.	1.2	80
143	Minimum information about a bioactive entity (MIABE). <i>Nature Reviews Drug Discovery</i> , 2011, 10, 661-669.	21.5	80
144	Small Molecule Inhibitors of ERCC1-XPF Protein-Protein Interaction Synergize Alkylating Agents in Cancer Cells. <i>Molecular Pharmacology</i> , 2013, 84, 12-24.	1.0	80

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145	Perspective: Dietary Biomarkers of Intake and Exposure—Exploration with Omics Approaches. <i>Advances in Nutrition</i> , 2020, 11, 200-215.	2.9	79
146	The Bovine Metabolome. <i>Metabolites</i> , 2020, 10, 233.	1.3	77
147	A scheme for a flexible classification of dietary and health biomarkers. <i>Genes and Nutrition</i> , 2017, 12, 34.	1.2	76
148	Dynamic Relationships among Type IIa Bacteriocins: Temperature Effects on Antimicrobial Activity and on Structure of the C-Terminal Amphipathic $\alpha$ Helix as a Receptor-Binding Region. <i>Biochemistry</i> , 2004, 43, 9009-9020.	1.2	75
149	NMR: prediction of protein flexibility. <i>Nature Protocols</i> , 2006, 1, 683-688.	5.5	75
150	Computational Approaches to Metabolomics. <i>Methods in Molecular Biology</i> , 2010, 593, 283-313.	0.4	74
151	GC-MS Metabolomics Identifies Metabolite Alterations That Precede Subclinical Mastitis in the Blood of Transition Dairy Cows. <i>Journal of Proteome Research</i> , 2017, 16, 433-446.	1.8	72
152	Guidelines for Biomarker of Food Intake Reviews (BFIRev): how to conduct an extensive literature search for biomarker of food intake discovery. <i>Genes and Nutrition</i> , 2018, 13, 3.	1.2	71
153	Pasture Feeding Changes the Bovine Rumen and Milk Metabolome. <i>Metabolites</i> , 2018, 8, 27.	1.3	70
154	PlasMapper: a web server for drawing and auto-annotating plasmid maps. <i>Nucleic Acids Research</i> , 2004, 32, W660-W664.	6.5	68
155	Hair Metabolomics: Identification of Fetal Compromise Provides Proof of Concept for Biomarker Discovery. <i>Theranostics</i> , 2014, 4, 953-959.	4.6	68
156	International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. <i>Analytical Chemistry</i> , 2019, 91, 14407-14416.	3.2	66
157	MarkerDB: an online database of molecular biomarkers. <i>Nucleic Acids Research</i> , 2021, 49, D1259-D1267.	6.5	64
158	The RCI server: rapid and accurate calculation of protein flexibility using chemical shifts. <i>Nucleic Acids Research</i> , 2007, 35, W531-W537.	6.5	62
159	Identification of Novel and Known Oocyte-Specific Genes Using Complementary DNA Subtraction and Microarray Analysis in Three Different Species <sup>1</sup> . <i>Biology of Reproduction</i> , 2005, 73, 63-71.	1.2	61
160	Resolution-by-proxy: a simple measure for assessing and comparing the overall quality of NMR protein structures. <i>Journal of Biomolecular NMR</i> , 2012, 53, 167-180.	1.6	61
161	SPLASH, a hashed identifier for mass spectra. <i>Nature Biotechnology</i> , 2016, 34, 1099-1101.	9.4	61
162	Application of solid phase peptide synthesis to engineering PEO-peptide block copolymers for drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 30, 323-334.	2.5	60

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163	MetATT: a web-based metabolomics tool for analyzing time-series and two-factor datasets. <i>Bioinformatics</i> , 2011, 27, 2455-2456.	1.8	60
164	Virtual Screening and Biological Evaluation of Inhibitors Targeting the XPA-ERCC1 Interaction. <i>PLoS ONE</i> , 2012, 7, e51329.	1.1	60
165	First-trimester metabolomic detection of late-onset preeclampsia. <i>American Journal of Obstetrics and Gynecology</i> , 2013, 208, 58.e1-58.e7.	0.7	60
166	NMR Spectroscopy and Protein Structure Determination: Applications to Drug Discovery and Development. <i>Current Pharmaceutical Biotechnology</i> , 2005, 6, 105-120.	0.9	57
167	DrugBank and its relevance to pharmacogenomics. <i>Pharmacogenomics</i> , 2008, 9, 1155-1162.	0.6	56
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