## Nathan D Price

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4386195/publications.pdf

Version: 2024-02-01

222 papers 19,205 citations

63 h-index 125 g-index

259 all docs

259 docs citations

times ranked

259

26120 citing authors

#	Article	IF	CITATIONS
1	Genome-scale models of microbial cells: evaluating the consequences of constraints. Nature Reviews Microbiology, 2004, 2, 886-897.	28.6	935
2	A community-driven global reconstruction of human metabolism. Nature Biotechnology, 2013, 31, 419-425.	17.5	920
3	The MicroArray Quality Control (MAQC)-II study of common practices for the development and validation of microarray-based predictive models. Nature Biotechnology, 2010, 28, 827-838.	17.5	795
4	Rare coding variants in PLCG2, ABI3, and TREM2 implicate microglial-mediated innate immunity in Alzheimer's disease. Nature Genetics, 2017, 49, 1373-1384.	21.4	783
5	Multiple early factors anticipate post-acute COVID-19 sequelae. Cell, 2022, 185, 881-895.e20.	28.9	605
6	Multiscale Analysis of Independent Alzheimer's Cohorts Finds Disruption of Molecular, Genetic, and Clinical Networks by Human Herpesvirus. Neuron, 2018, 99, 64-82.e7.	8.1	558
7	Multi-Omics Resolves a Sharp Disease-State Shift between Mild and Moderate COVID-19. Cell, 2020, 183, 1479-1495.e20.	28.9	449
8	P4 medicine: how systems medicine will transform the healthcare sector and society. Personalized Medicine, 2013, 10, 565-576.	1.5	422
9	Probabilistic integrative modeling of genome-scale metabolic and regulatory networks in <i>Escherichia coli</i> and <i>Mycobacterium tuberculosis</i> of Sciences of the National Academy of Sciences of the United States of America, 2010, 107, 17845-17850.	7.1	378
10	Health and disease markers correlate with gut microbiome composition across thousands of people. Nature Communications, 2020, 11, 5206.	12.8	378
11	Isoforms of RNA-Editing Enzyme ADAR1 Independently Control Nucleic Acid Sensor MDA5-Driven Autoimmunity and Multi-organ Development. Immunity, 2015, 43, 933-944.	14.3	373
12	Genome-scale microbial in silico models: the constraints-based approach. Trends in Biotechnology, 2003, 21, 162-169.	9.3	365
13	Human whole genome genotype and transcriptome data for Alzheimer's and other neurodegenerative diseases. Scientific Data, 2016, 3, 160089.	5.3	361
14	Metabolic pathways in the post-genome era. Trends in Biochemical Sciences, 2003, 28, 250-258.	7.5	347
15	Comparison of network-based pathway analysis methods. Trends in Biotechnology, 2004, 22, 400-405.	9.3	347
16	A wellness study of 108 individuals using personal, dense, dynamic data clouds. Nature Biotechnology, 2017, 35, 747-756.	17.5	340
17	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
18	IL-10 Alters Immunoproteostasis in APP Mice, Increasing Plaque Burden and Worsening Cognitive Behavior. Neuron, 2015, 85, 519-533.	8.1	292

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19	Gut microbiome pattern reflects healthy ageing and predicts survival in humans. Nature Metabolism, 2021, 3, 274-286.	11.9	278
20	Achievements and perspectives to overcome the poor solvent resistance in acetone and butanol-producing microorganisms. Applied Microbiology and Biotechnology, 2010, 85, 1697-1712.	3.6	249
21	Reconstruction of genome-scale metabolic models for 126 human tissues using mCADRE. BMC Systems Biology, 2012, 6, 153.	3.0	239
22	A systems approach to prion disease. Molecular Systems Biology, 2009, 5, 252.	7.2	230
23	Expanded Metabolic Reconstruction of Helicobacter pylori ( i IT341 GSM/GPR): an In Silico Genome-Scale Characterization of Single- and Double-Deletion Mutants. Journal of Bacteriology, 2005, 187, 5818-5830.	2.2	220
24	Blood metabolome predicts gut microbiome $\hat{l}_{\pm}$ -diversity in humans. Nature Biotechnology, 2019, 37, 1217-1228.	17.5	213
25	Meta-Analysis of the Alzheimer's Disease Human Brain Transcriptome and Functional Dissection in Mouse Models. Cell Reports, 2020, 32, 107908.	6.4	199
26	The DNA-binding network of Mycobacterium tuberculosi s. Nature Communications, 2015, 6, 5829.	12.8	192
27	Gene expression dynamics in the macrophage exhibit criticality. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1897-1900.	7.1	191
28	The P4 Health Spectrum – A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. Progress in Cardiovascular Diseases, 2017, 59, 506-521.	3.1	178
29	A Blood-Based Proteomic Classifier for the Molecular Characterization of Pulmonary Nodules. Science Translational Medicine, 2013, 5, 207ra142.	12.4	165
30	Behavior-specific changes in transcriptional modules lead to distinct and predictable neurogenomic states. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18020-18025.	7.1	156
31	MicroRNAs and lipid metabolism. Current Opinion in Lipidology, 2017, 28, 273-280.	2.7	156
32	Rare variants in neuronal excitability genes influence risk for bipolar disorder. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3576-3581.	7.1	152
33	Highly accurate two-gene classifier for differentiating gastrointestinal stromal tumors and leiomyosarcomas. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3414-3419.	7.1	144
34	Candidate Metabolic Network States in Human Mitochondria. Journal of Biological Chemistry, 2005, 280, 11683-11695.	3.4	138
35	Mapping and manipulating the Mycobacterium tuberculosis transcriptome using a transcription factor overexpression-derived regulatory network. Genome Biology, 2014, 15, 502.	8.8	136
36	Uniform Sampling of Steady-State Flux Spaces: Means to Design Experiments and to Interpret Enzymopathies. Biophysical Journal, 2004, 87, 2172-2186.	0.5	130

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37	Extreme Pathway Lengths and Reaction Participation in Genome-Scale Metabolic Networks. Genome Research, 2002, 12, 1889-1900.	5.5	125
38	ITEP: An integrated toolkit for exploration of microbial pan-genomes. BMC Genomics, 2014, 15, 8.	2.8	123
39	Extreme Pathways and Kirchhoff's Second Law. Biophysical Journal, 2002, 83, 2879-2882.	0.5	122
40	Conserved brain myelination networks are altered in Alzheimer's and other neurodegenerative diseases. Alzheimer's and Dementia, 2018, 14, 352-366.	0.8	116
41	The Genome-Scale Metabolic Extreme Pathway Structure in Haemophilus influenzae Shows Significant Network Redundancy. Journal of Theoretical Biology, 2002, 215, 67-82.	1.7	115
42	A CD133-related gene expression signature identifies an aggressive glioblastoma subtype with excessive mutations. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1591-1596.	7.1	114
43	Relative Expression Analysis for Molecular Cancer Diagnosis and Prognosis. Technology in Cancer Research and Treatment, 2010, 9, 149-159.	1.9	111
44	Determination of Redundancy and Systems Properties of the Metabolic Network of Helicobacter pylori Using Genome-Scale Extreme Pathway Analysis. Genome Research, 2002, 12, 760-769.	5.5	106
45	<i>In silico</i> models of cancer. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 438-459.	6.6	103
46	Crops In Silico: Generating Virtual Crops Using an Integrative and Multi-scale Modeling Platform. Frontiers in Plant Science, 2017, 8, 786.	3.6	102
47	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimer's Disease. Cell Reports Medicine, 2020, 1, 100138.	6.5	102
48	Molecular signatures from omics data: From chaos to consensus. Biotechnology Journal, 2012, 7, 946-957.	3.5	101
49	Single-Cell Proteomics Reveal that Quantitative Changes in Co-expressed Lineage-Specific Transcription Factors Determine Cell Fate. Cell Stem Cell, 2019, 24, 812-820.e5.	11.1	99
50	Metabolic network reconstruction and genome-scale model of butanol-producing strain Clostridium beijerinckii NCIMB 8052. BMC Systems Biology, 2011, 5, 130.	3.0	95
51	Predictive Big Data Analytics: A Study of Parkinson's Disease Using Large, Complex, Heterogeneous, Incongruent, Multi-Source and Incomplete Observations. PLoS ONE, 2016, 11, e0157077.	2.5	94
52	Heterogeneity in protein expression induces metabolic variability in a modeled <i>Escherichia coli</i> population. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14006-14011.	7.1	91
53	Version 6 of the consensus yeast metabolic network refines biochemical coverage and improves model performance. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat059.	3.0	89
54	Matrix Formalism to Describe Functional States of Transcriptional Regulatory Systems. PLoS Computational Biology, 2006, 2, e101.	3.2	84

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55	Absolute Quantification of Transcription Factors Reveals Principles of Gene Regulation in Erythropoiesis. Molecular Cell, 2020, 78, 960-974.e11.	9.7	83
56	Critical Networks Exhibit Maximal Information Diversity in Structure-Dynamics Relationships. Physical Review Letters, 2008, 100, 058702.	7.8	82
57	Genome-scale modeling for metabolic engineering. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 327-338.	3.0	82
58	Integrated analysis of plasma and single immune cells uncovers metabolic changes in individuals with COVID-19. Nature Biotechnology, 2022, 40, 110-120.	17.5	81
59	The effect of maternal SARS-CoV-2 infection timing on birth outcomes: a retrospective multicentre cohort study. The Lancet Digital Health, 2022, 4, e95-e104.	12.3	81
60	Genome-Scale Metabolic Reconstruction and Hypothesis Testing in the Methanogenic Archaeon Methanosarcina acetivorans C2A. Journal of Bacteriology, 2012, 194, 855-865.	2.2	79
61	Accomplishments in genomeâ€scale <i>in silico</i> modeling for industrial and medical biotechnology. Biotechnology Journal, 2009, 4, 1653-1670.	3.5	77
62	Large eQTL meta-analysis reveals differing patterns between cerebral cortical and cerebellar brain regions. Scientific Data, 2020, 7, 340.	<b>5.</b> 3	75
63	Analysis of Metabolic Capabilities Using Singular Value Decomposition of Extreme Pathway Matrices. Biophysical Journal, 2003, 84, 794-804.	0.5	73
64	Identifying Tightly Regulated and Variably Expressed Networks by Differential Rank Conservation (DIRAC). PLoS Computational Biology, 2010, 6, e1000792.	3.2	73
65	A refined genomeâ€scale reconstruction of <i>Chlamydomonas</i> metabolism provides a platform for systemsâ€level analyses. Plant Journal, 2015, 84, 1239-1256.	5.7	70
66	Comparative Analysis of Yeast Metabolic Network Models Highlights Progress, Opportunities for Metabolic Reconstruction. PLoS Computational Biology, 2015, 11, e1004530.	3.2	70
67	Big biomedical data as the key resource for discovery science. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1126-1131.	4.4	70
68	Biochemical and statistical network models for systems biology. Current Opinion in Biotechnology, 2007, 18, 365-370.	6.6	68
69	Do genomeâ€scale models need exact solvers or clearer standards?. Molecular Systems Biology, 2015, 11, 831.	7.2	68
70	Multi-omic biomarker identification and validation for diagnosing warzone-related post-traumatic stress disorder. Molecular Psychiatry, 2020, 25, 3337-3349.	7.9	68
71	Demystifying Disease, Democratizing Health Care. Science Translational Medicine, 2014, 6, 225ed5.	12.4	67
72	Linkage, whole genome sequence, and biological data implicate variants in RAB10 in Alzheimer's disease resilience. Genome Medicine, 2017, 9, 100.	8.2	67

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73	Likelihood-Based Gene Annotations for Gap Filling and Quality Assessment in Genome-Scale Metabolic Models. PLoS Computational Biology, 2014, 10, e1003882.	3.2	66
74	Integrating big data and actionable health coaching to optimize wellness. BMC Medicine, 2015, 13, 4.	5.5	66
<b>7</b> 5	Introduction to the Special Issue on Information Theory in Molecular Biology and Neuroscience. IEEE Transactions on Information Theory, 2010, 56, 649-652.	2.4	65
76	Network-based analysis of metabolic regulation in the human red blood cell. Journal of Theoretical Biology, 2003, 225, 185-194.	1.7	64
77	Integrated Modeling of Gene Regulatory and Metabolic Networks in Mycobacterium tuberculosis. PLoS Computational Biology, 2015, 11, e1004543.	3.2	64
78	Cell type-specific genes show striking and distinct patterns of spatial expression in the mouse brain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3095-3100.	7.1	61
79	Transcriptional program for nitrogen starvation-induced lipid accumulation in Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2015, 8, 207.	6.2	60
80	A synthesis of bacterial and archaeal phenotypic trait data. Scientific Data, 2020, 7, 170.	5.3	59
81	Network biology methods integrating biological data for translational science. Briefings in Bioinformatics, 2012, 13, 446-459.	6.5	57
82	Integrated Proteomics and Genomics Analysis Reveals a Novel Mesenchymal to Epithelial Reverting Transition in Leiomyosarcoma through Regulation of Slug. Molecular and Cellular Proteomics, 2010, 9, 2405-2413.	3.8	56
83	Multi-Omic Biological Age Estimation and Its Correlation With Wellness and Disease Phenotypes: A Longitudinal Study of 3,558 Individuals. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, S52-S60.	3.6	56
84	A comprehensive map of genome-wide gene regulation in Mycobacterium tuberculosis. Scientific Data, 2015, 2, 150010.	5.3	55
85	Transcriptional regulatory networks underlying gene expression changes in Huntington's disease. Molecular Systems Biology, 2018, 14, e7435.	7.2	55
86	Development of a Gene Knockout System Using Mobile Group II Introns (Targetron) and Genetic Disruption of Acid Production Pathways in Clostridium beijerinckii. Applied and Environmental Microbiology, 2013, 79, 5853-5863.	3.1	54
87	<scp><i>H</i></scp> <i>alomonas sulfidaeris</i> êdominated microbial community inhabits a 1.8 kmâ€deep subsurface <scp>C</scp> ambrian <scp>S</scp> andstone reservoir. Environmental Microbiology, 2014, 16, 1695-1708.	3.8	52
88	Development of network-based pathway definitions: the need to analyze real metabolic networks. Trends in Biotechnology, 2003, 21, 195-198.	9.3	51
89	Genome-Scale Consequences of Cofactor Balancing in Engineered Pentose Utilization Pathways in Saccharomyces cerevisiae. PLoS ONE, 2011, 6, e27316.	2.5	51
90	TLR5 decoy receptor as a novel anti-amyloid therapeutic for Alzheimer's disease. Journal of Experimental Medicine, 2018, 215, 2247-2264.	8.5	50

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91	Data-driven integration of genome-scale regulatory and metabolic network models. Frontiers in Microbiology, 2015, 6, 409.	3.5	49
92	Gene expression, methylation and neuropathology correlations at progressive supranuclear palsy risk loci. Acta Neuropathologica, 2016, 132, 197-211.	7.7	49
93	Exploring Hydrogenotrophic Methanogenesis: a Genome Scale Metabolic Reconstruction of Methanococcus maripaludis. Journal of Bacteriology, 2016, 198, 3379-3390.	2.2	48
94	A candidate regulatory variant at the <i>TREM</i> gene cluster associates with decreased Alzheimer's disease risk and increased <i>TREML1</i> and <i>TREM2</i> brain gene expression. Alzheimer's and Dementia, 2017, 13, 663-673.	0.8	48
95	Genetic Predisposition Impacts Clinical Changes in a Lifestyle Coaching Program. Scientific Reports, 2019, 9, 6805.	3.3	48
96	Comparative analysis of gene expression in maternal peripheral blood and monocytes during spontaneous preterm labor. American Journal of Obstetrics and Gynecology, 2018, 218, 345.e1-345.e30.	1.3	47
97	Divergent brain gene expression patterns associate with distinct cell-specific tau neuropathology traits in progressive supranuclear palsy. Acta Neuropathologica, 2018, 136, 709-727.	7.7	47
98	Longitudinal analysis reveals transition barriers between dominant ecological states in the gut microbiome. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13839-13845.	7.1	47
99	Long-Range Periodic Patterns in Microbial Genomes Indicate Significant Multi-Scale Chromosomal Organization. PLoS Computational Biology, 2006, 2, e2.	3.2	46
100	Combining inferred regulatory and reconstructed metabolic networks enhances phenotype prediction in yeast. PLoS Computational Biology, 2017, 13, e1005489.	3.2	46
101	Candidate States of Helicobacter pylori's Genome-Scale Metabolic Network upon Application of "Loop Law―Thermodynamic Constraints. Biophysical Journal, 2006, 90, 3919-3928.	0.5	45
102	Systems Approach to Neurodegenerative Disease Biomarker Discovery. Annual Review of Pharmacology and Toxicology, 2014, 54, 457-481.	9.4	45
103	Relative stability of network states in Boolean network models of gene regulation in development. BioSystems, 2016, 142-143, 15-24.	2.0	45
104	Genome-Scale Transcriptional Regulatory Network Models of Psychiatric and Neurodegenerative Disorders. Cell Systems, 2019, 8, 122-135.e7.	6.2	45
105	Metabolite coupling in genome-scale metabolic networks. BMC Bioinformatics, 2006, 7, 111.	2.6	43
106	Genetic Co-Occurrence Network across Sequenced Microbes. PLoS Computational Biology, 2011, 7, e1002340.	3.2	43
107	In SilicoMetabolic Model and Protein Expression ofHaemophilus influenzaeStrain Rd KW20 in Rich Medium. OMICS A Journal of Integrative Biology, 2004, 8, 25-41.	2.0	42
108	Network reconstruction and systems analysis of plant cell wall deconstruction by Neurospora crassa. Biotechnology for Biofuels, 2017, 10, 225.	6.2	42

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109	Research Resource: Whole Transcriptome RNA Sequencing Detects Multiple 1α,25-Dihydroxyvitamin D3-Sensitive Metabolic Pathways in Developing Zebrafish. Molecular Endocrinology, 2012, 26, 1630-1642.	3.7	41
110	Genomically and biochemically accurate metabolic reconstruction of <i>Methanosarcina barkeri</i> Fusaro, iMG746. Biotechnology Journal, 2013, 8, 1070-1079.	3.5	41
111	OptRAM: In-silico strain design via integrative regulatory-metabolic network modeling. PLoS Computational Biology, 2019, 15, e1006835.	3.2	41
112	A systems approach to clinical oncology uses deep phenotyping to deliver personalized care. Nature Reviews Clinical Oncology, 2020, 17, 183-194.	27.6	41
113	Biological Information as Set-Based Complexity. IEEE Transactions on Information Theory, 2010, 56, 667-677.	2.4	39
114	High resolution time-course mapping of early transcriptomic, molecular and cellular phenotypes in Huntington's disease CAG knock-in mice across multiple genetic backgrounds. Human Molecular Genetics, 2017, 26, 913-922.	2.9	37
115	A Cell-Surface Membrane Protein Signature for Glioblastoma. Cell Systems, 2017, 4, 516-529.e7.	6.2	37
116	Ion channel expression patterns in glioblastoma stem cells with functional and therapeutic implications for malignancy. PLoS ONE, 2017, 12, e0172884.	2.5	37
117	iREAD: a tool for intron retention detection from RNA-seq data. BMC Genomics, 2020, 21, 128.	2.8	35
118	I'll take that to go: Big data bags and minimal identifiers for exchange of large, complex datasets. , 2016, , .		33
119	Network-level analysis of metabolic regulation in the human red blood cell using random sampling and singular value decomposition. BMC Bioinformatics, 2006, 7, 132.	2.6	32
120	The building blocks of successful translation of proteomics to the clinic. Current Opinion in Biotechnology, 2018, 51, 123-129.	6.6	32
121	Taking Systems Medicine to Heart. Circulation Research, 2018, 122, 1276-1289.	4.5	32
122	Motor neuron loss and neuroinflammation in a model of $\hat{l}_{\pm}$ -synuclein-induced neurodegeneration. Neurobiology of Disease, 2018, 120, 98-106.	4.4	32
123	Metabolic Constraint-Based Refinement of Transcriptional Regulatory Networks. PLoS Computational Biology, 2013, 9, e1003370.	3.2	31
124	Quantitative Proteomic Analysis Reveals Effects of Epidermal Growth Factor Receptor (EGFR) on Invasion-promoting Proteins Secreted by Glioblastoma Cells. Molecular and Cellular Proteomics, 2014, 13, 2618-2631.	3.8	29
125	Reproducible big data science: A case study in continuous FAIRness. PLoS ONE, 2019, 14, e0213013.	2.5	29
126	MediaDB: A Database of Microbial Growth Conditions in Defined Media. PLoS ONE, 2014, 9, e103548.	2.5	28

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127	Atlas of Transcription Factor Binding Sites from ENCODE DNase Hypersensitivity Data across 27 Tissue Types. Cell Reports, 2020, 32, 108029.	6.4	28
128	Genome-wide pleiotropy analysis of neuropathological traits related to Alzheimer's disease. Alzheimer's Research and Therapy, 2018, 10, 22.	6.2	27
129	Targeting <scp>TWIST</scp> 1 through loss of function inhibits tumorigenicity of human glioblastoma. Molecular Oncology, 2018, 12, 1188-1202.	4.6	25
130	Integrative functional genomic analysis of intron retention in human and mouse brain with Alzheimer's disease. Alzheimer's and Dementia, 2021, 17, 984-1004.	0.8	25
131	iNetModels 2.0: an interactive visualization and database of multi-omics data. Nucleic Acids Research, 2021, 49, W271-W276.	14.5	25
132	The top-scoring  N' algorithm: a generalized relative expression classification method from small numbers of biomolecules. BMC Bioinformatics, 2012, 13, 227.	2.6	24
133	Systems pharmacology modeling: an approach to improving drug safety. Biopharmaceutics and Drug Disposition, 2014, 35, 1-14.	1.9	24
134	A Precision Medicine Approach to Improve Cancer Rehabilitation's Impact and Integration with Cancer Care and Optimize Patient Wellness. Current Physical Medicine and Rehabilitation Reports, 2017, 5, 64-73.	0.8	24
135	Distinct communication patterns of trophoblastic miRNA among the maternal-placental-fetal compartments. Placenta, 2018, 72-73, 28-35.	1.5	24
136	The Limits of De Novo DNA Motif Discovery. PLoS ONE, 2012, 7, e47836.	2.5	23
137	Digitizing omics profiles by divergence from a baseline. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4545-4552.	7.1	23
138	Comparative transcriptomic analysis of human placentae at term and preterm deliveryâ€. Biology of Reproduction, 2018, 98, 89-101.	2.7	23
139	Risk factors for severe COVID-19 differ by age for hospitalized adults. Scientific Reports, 2022, 12, 6568.	3.3	23
140	Systems biology and cancer stem cells. Journal of Cellular and Molecular Medicine, 2008, 12, 97-110.	3.6	22
141	Multiomic blood correlates of genetic risk identify presymptomatic disease alterations. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21813-21820.	7.1	22
142	Deep phenotyping during pregnancy for predictive and preventive medicine. Science Translational Medicine, 2020, $12$ , .	12.4	21
143	Heterogeneity in statin responses explained by variation in the human gut microbiome. Med, 2022, 3, 388-405.e6.	4.4	21
144	<i>Promoting Wellness &amp; Demystifying Disease: </i> The 100K Project. Clinical OMICs, 2014, 1, 20-23.	0.0	20

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145	Transparency in metabolic network reconstruction enables scalable biological discovery. Current Opinion in Biotechnology, 2015, 34, 105-109.	6.6	20
146	A Comprehensive Assessment of Associations between Prenatal Phthalate Exposure and the Placental Transcriptomic Landscape. Environmental Health Perspectives, 2021, 129, 97003.	6.0	20
147	Serum from calorie-restricted animals delays senescence and extends the lifespan of normal human fibroblasts in vitro. Aging, 2015, 7, 152-166.	3.1	20
148	Label-free Proteomics and Systems Biology Analysis of Mycobacterial Phagosomes in Dendritic Cells and Macrophages. Journal of Proteome Research, 2011, 10, 2425-2439.	3.7	19
149	From taxonomy to metabolic output: what factors define gut microbiome health?. Gut Microbes, 2021, 13, 1-20.	9.8	19
150	The geometry of clinical labs and wellness states from deeply phenotyped humans. Nature Communications, 2021, 12, 3578.	12.8	19
151	Baseline Gut Metagenomic Functional Gene Signature Associated with Variable Weight Loss Responses following a Healthy Lifestyle Intervention in Humans. MSystems, 2021, 6, e0096421.	3.8	19
152	Measuring the Effect of Inter-Study Variability on Estimating Prediction Error. PLoS ONE, 2014, 9, e110840.	2.5	19
153	Personalized nutrition through big data. Nature Biotechnology, 2016, 34, 152-154.	17.5	18
154	Mechanistic modeling of aberrant energy metabolism in human disease. Frontiers in Physiology, 2012, 3, 404.	2.8	17
155	MicroRNAâ€transcriptome networks in whole blood and monocytes of women undergoing preterm labour. Journal of Cellular and Molecular Medicine, 2019, 23, 6835-6845.	3.6	17
156	Two-transcript gene expression classifiers in the diagnosis and prognosis of human diseases. BMC Genomics, 2009, 10, 583.	2.8	16
157	Multi-study Integration of Brain Cancer Transcriptomes Reveals Organ-Level Molecular Signatures. PLoS Computational Biology, 2013, 9, e1003148.	3.2	16
158	Motivational, proteostatic and transcriptional deficits precede synapse loss, gliosis and neurodegeneration in the B6.HttQ111/+ model of Huntington's disease. Scientific Reports, 2017, 7, 41570.	3.3	16
159	SNAPR: A Bioinformatics Pipeline for Efficient and Accurate RNA-Seq Alignment and Analysis. IEEE Life Sciences Letters, 2015, 1, 22-25.	1.2	15
160	Detection of $1\hat{l}\pm$ ,25-Dihydroxyvitamin D-Regulated miRNAs in Zebrafish by Whole Transcriptome Sequencing. Zebrafish, 2014, 11, 207-218.	1.1	14
161	Genomic, Transcriptional, and Phenotypic Analysis of the Glucose Derepressed <i>Clostridium beijerinckii</i> Mutant Exhibiting Acid Crash Phenotype. Biotechnology Journal, 2017, 12, 1700182.	3.5	14
162	Measurement of Organ-Specific and Acute-Phase Blood Protein Levels in Early Lyme Disease. Journal of Proteome Research, 2020, 19, 346-359.	3.7	14

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163	Towards early risk biomarkers: serum metabolic signature in childhood predicts cardio-metabolic risk in adulthood. EBioMedicine, 2021, 72, 103611.	6.1	14
164	A Guide to Integrating Transcriptional Regulatory and Metabolic Networks Using PROM (Probabilistic) Tj ETQqC	0 0 orgBT /	Overlock 10 1
165	Advancing human health in the decade ahead: pregnancy as a key window for discovery. American Journal of Obstetrics and Gynecology, 2020, 223, 312-321.	1.3	13
166	Peripheral huntingtin silencing does not ameliorate central signs of disease in the B6.HttQ111/+ mouse model of Huntington's disease. PLoS ONE, 2017, 12, e0175968.	2.5	13
167	Alzheimer's disease and progressive supranuclear palsy share similar transcriptomic changes in distinct brain regions. Journal of Clinical Investigation, 2022, 132, .	8.2	13
168	Untargeted longitudinal analysis of a wellness cohort identifies markers of metastatic cancer years prior to diagnosis. Scientific Reports, 2020, 10, 16275.	3.3	12
169	Manifestations of Alzheimer's disease genetic risk in the blood are evident in a multiomic analysis in healthy adults aged 18 to 90. Scientific Reports, 2022, 12, 6117.	3.3	12
170	Macroscopic Kinetic Effect of Cell-to-Cell Variation in Biochemical Reactions. Physical Review Letters, 2010, 104, 148103.	7.8	11
171	Graphics processing unit implementations of relative expression analysis algorithms enable dramatic computational speedup. Bioinformatics, 2011, 27, 872-873.	4.1	11
172	Enhanced retinal responses in Huntington's disease patients. Journal of Huntington's Disease, 2017, 6, 237-247.	1.9	11
173	Systems biology of embryogenesis. Reproduction, Fertility and Development, 2010, 22, 98.	0.4	10
174	The P4 Health Spectrum – A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. Progress in Preventive Medicine (New York, N Y ), 2017, 2, e0002.	0.7	10
175	Genome-scale metabolic model of the rat liver predicts effects of diet restriction. Scientific Reports, 2019, 9, 9807.	3.3	10
176	A systemsâ€biology clinical trial of a personalized multimodal lifestyle intervention for early Alzheimer's disease. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12191.	3.7	10
177	An argument for mechanism-based statistical inference in cancer. Human Genetics, 2015, 134, 479-495.	3.8	9
178	ProbAnnoWeb and ProbAnnoPy: probabilistic annotation and gap-filling of metabolic reconstructions. Bioinformatics, 2018, 34, 1594-1596.	4.1	9
179	Temporal transcriptomic analysis of metabolic genes in maternal organs and placenta during murine pregnancyâ€. Biology of Reproduction, 2018, 99, 1255-1265.	2.7	9
180	AUREA: an open-source software system for accurate and user-friendly identification of relative expression molecular signatures. BMC Bioinformatics, 2013, 14, 78.	2.6	7

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181	Transcriptional Analysis of Aggressiveness and Heterogeneity across Grades of Astrocytomas. PLoS ONE, 2013, 8, e76694.	2.5	7
182	Core transcriptional regulatory circuits in prion diseases. Molecular Brain, 2020, 13, 10.	2.6	7
183	Identifying Personalized Metabolic Signatures in Breast Cancer. Metabolites, 2021, 11, 20.	2.9	7
184	Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y ), 2017, 2, e006.	0.7	6
185	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Cholesterol Metabolism in Alzheimer's Disease. SSRN Electronic Journal, 0, , .	0.4	6
186	Systems Biology and the Emergence of Systems Medicine. , 2009, , 74-85.		5
187	Emerging Proteomic Technologies Provide Enormous and Underutilized Potential for Brain Cancer Research. Molecular and Cellular Proteomics, 2016, 15, 362-367.	3.8	5
188	Systems modeling of metabolic dysregulation in neurodegenerative diseases. Current Opinion in Pharmacology, 2021, 60, 59-65.	3.5	5
189	Systems approaches to molecular cancer diagnostics. Discovery Medicine, 2010, 10, 531-42.	0.5	5
190	Relative expression analysis for identifying perturbed pathways., 2009, 2009, 5456-9.		4
191	Modulating innate immune activation states impacts the efficacy of specific $\hat{Al^2}$ immunotherapy. Molecular Neurodegeneration, 2021, 16, 32.	10.8	4
192	A Wipe-Based Stool Collection and Preservation Kit for Microbiome Community Profiling. Frontiers in Immunology, 0, $13$ , .	4.8	4
193	Systems Biology and Systems Medicine. , 2010, , 131-141.		3
194	Distribution of 54 polygenic risk scores for common diseases in long lived individuals and their offspring. GeroScience, 2022, 44, 719-729.	4.6	3
195	Present and Future Possibilities for the Deconstruction and Utilization of Lignocellulosic Biomass. , $2010,  39-51.$		2
196	Systems Biology and Systems Medicine. , 2013, , 60-72.		2
197	Systems Medicine and the Emergence of Proactive P4 Medicine. , 2013, , 445-467.		2
198	Fostering synergy between cell biology and systems biology. Trends in Cell Biology, 2015, 25, 440-445.	7.9	2

#	Article	IF	Citations
199	IFPA meeting 2016 workshop report I: Genomic communication, bioinformatics, trophoblast biology and transport systems. Placenta, 2017, 60, S5-S9.	1.5	2
200	Reply to "Precision medicine in the clouds". Nature Biotechnology, 2018, 36, 680-682.	17.5	2
201	Computational Infrastructures for Data and Knowledge Management in Systems Biology. , 2013, , 377-397.		2
202	Patterns of biomarkers for three phenotype profiles of persisting specific learning disabilities during middle childhood and early adolescence: A preliminary study. , 2017, $1$ , .		2
203	Editorial: Systems biology for biotech applications. Biotechnology Journal, 2010, 5, 636-637.	3.5	1
204	Genome-Scale Models for Microbial Factories. Industrial Biotechnology, 2013, 9, 177-178.	0.8	1
205	P4â€031: Integrative Network Analysis of Multiple Alzheimer's Disease Rnaseq Studies From the Accelerating Medicine Partnershipâ€Alzheimer's Disease Consortium. Alzheimer's and Dementia, 2016, 12, P1026.	0.8	1
206	Personal Dense Dynamic Data Clouds Connect Systems Biomedicine to Scientific Wellness. Methods in Molecular Biology, 2022, 2486, 315-334.	0.9	1
207	Investigating the importance of acylcarnitines in Alzheimer's disease Alzheimer's and Dementia, 2021, 17 Suppl 3, e056647.	0.8	1
208	O1-11-03: Modulating chemokine signaling in preclinical Alzheimer's disease models., 2015, 11, P157-P157.		0
209	B18â€Transcriptome profiling of B6.HttQ111/+ hepatocytes in response to chemical perturbagens. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A15.2-A15.	1.9	O
210	P4â€027: Combing Evidence Across Multiple Cohorts for Systemsâ€Based Target Discovery: the AMPâ€AD Knowledge Portal. Alzheimer's and Dementia, 2016, 12, P1025.	0.8	0
211	F2-01-04: From Systems Level Transcriptomics to new Immune Targets for Alzheimer's Disease. , 2016, 12, P215-P216.		O
212	O2â€10â€04: A Regulatory Variant at the <i>TREM</i> Gene Cluster Associates with Decreased Alzheimer's Disease Risk and Increased <i>TREML1</i> and <i>TREM2</i> Brain Gene Expression. Alzheimer's and Dementia, 2016, 12, P251.	0.8	0
213	Reply. American Journal of Obstetrics and Gynecology, 2018, 219, 123-124.	1.3	O
214	O3â€03â€01: MECHANISTIC AND DIRECTIONAL TRANSCRIPTIONAL REGULATORY NETWORKS IN ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P1014.	0.8	0
215	P2â€123: A PHENOMEâ€WIDE ASSOCIATION STUDY (PHEWAS) OF BLOODâ€BASED BIOLOGICAL MARKERS AND APOLIPOPROTEIN E GENOTYPE ACROSS THE ADULT LIFESPAN. Alzheimer's and Dementia, 2018, 14, P716.	0.8	O
216	Editorial overview: Systems biology: Data, discovery, delivery. Current Opinion in Biotechnology, 2018, 51, vii-viii.	6.6	0

#	Article	IF	CITATIONS
217	THE PROTEOMICS OF LONGEVITY. Innovation in Aging, 2019, 3, S209-S209.	0.1	O
218	MULTI-OMIC BIOLOGICAL AGE ESTIMATION, CORRELATION WITH WELLNESS, DISEASE PHENOTYPES: LONGITUDINAL SAMPLE OF 3558. Innovation in Aging, 2019, 3, S209-S209.	0.1	0
219	Long-range Periodic Patterns in Microbial Genomes Indicate Significant Multi-scale Chromosomal Organization. PLoS Computational Biology, 2005, preprint, e2.	3.2	O
220	Biological Data Integration and Model Building. , 2013, , 1-19.		0
221	Conserved architecture of brain transcriptome changes between Alzheimer's disease and progressive supranuclear palsy in pathologically affected and unaffected regions Alzheimer's and Dementia, 2021, 17 Suppl 3, e054424.	0.8	O
222	Case Study: A Precision Medicine Approach to Multifactorial Dementia and Alzheimer's Disease , 2021, 11, .		0