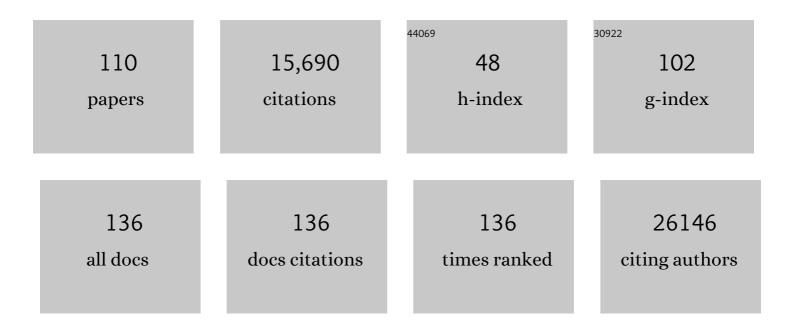
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Transcriptional Landscape of the Mammalian Genome. Science, 2005, 309, 1559-1563.	12.6	3,227
2	A promoter-level mammalian expression atlas. Nature, 2014, 507, 462-470.	27.8	1,838
3	DNA-binding factors shape the mouse methylome at distal regulatory regions. Nature, 2011, 480, 490-495.	27.8	1,203
4	An Atlas of Combinatorial Transcriptional Regulation in Mouse and Man. Cell, 2010, 140, 744-752.	28.9	667
5	Neutral evolution of mutational robustness. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9716-9720.	7.1	510
6	Decay Rates of Human mRNAs: Correlation With Functional Characteristics and Sequence Attributes. Genome Research, 2003, 13, 1863-1872.	5.5	467
7	Sox4 Is a Master Regulator of Epithelial-Mesenchymal Transition by Controlling Ezh2 Expression and Epigenetic Reprogramming. Cancer Cell, 2013, 23, 768-783.	16.8	415
8	The transcriptional network that controls growth arrest and differentiation in a human myeloid leukemia cell line. Nature Genetics, 2009, 41, 553-562.	21.4	408
9	Automated Reconstruction of Whole-Genome Phylogenies from Short-Sequence Reads. Molecular Biology and Evolution, 2014, 31, 1077-1088.	8.9	399
10	Inference of miRNA targets using evolutionary conservation and pathway analysis. BMC Bioinformatics, 2007, 8, 69.	2.6	282
11	ISMARA: automated modeling of genomic signals as a democracy of regulatory motifs. Genome Research, 2014, 24, 869-884.	5.5	278
12	Scaling laws in the functional content of genomes. Trends in Genetics, 2003, 19, 479-484.	6.7	267
13	Adipose Tissue MicroRNAs as Regulators of CCL2 Production in Human Obesity. Diabetes, 2012, 61, 1986-1993.	0.6	263
14	PhyloGibbs: A Gibbs Sampling Motif Finder That Incorporates Phylogeny. PLoS Computational Biology, 2005, 1, e67.	3.2	236
15	Tyrosine phosphatase SHP2 promotes breast cancer progression and maintains tumor-initiating cells via activation of key transcription factors and a positive feedback signaling loop. Nature Medicine, 2012, 18, 529-537.	30.7	224
16	Identification of clustered microRNAs using an ab initio prediction method. BMC Bioinformatics, 2005, 6, 267.	2.6	219
17	The frequency distribution of gene family sizes in complete genomes. Molecular Biology and Evolution, 1998, 15, 583-589.	8.9	201
18	Accurate prediction of protein–protein interactions from sequence alignments using a Bayesian method. Molecular Systems Biology, 2008, 4, 165.	7.2	173

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19	A probabilistic method to detect regulatory modules. Bioinformatics, 2003, 19, i292-i301.	4.1	172
20	Disentangling Direct from Indirect Co-Evolution of Residues in Protein Alignments. PLoS Computational Biology, 2010, 6, e1000633.	3.2	171
21	Global 3′ UTR shortening has a limited effect on protein abundance in proliferating T cells. Nature Communications, 2014, 5, 5465.	12.8	164
22	SwissRegulon, a database of genome-wide annotations of regulatory sites: recent updates. Nucleic Acids Research, 2012, 41, D214-D220.	14.5	137
23	Methods for analyzing deep sequencing expression data: constructing the human and mouse promoterome with deepCAGE data. Genome Biology, 2009, 10, R79.	9.6	131
24	Klf4 Is a Transcriptional Regulator of Genes Critical for EMT, Including Jnk1 (Mapk8). PLoS ONE, 2013, 8, e57329.	2.5	130
25	A biophysical miRNA-mRNA interaction model infers canonical and noncanonical targets. Nature Methods, 2013, 10, 253-255.	19.0	129
26	SwissRegulon: a database of genome-wide annotations of regulatory sites. Nucleic Acids Research, 2007, 35, D127-D131.	14.5	123
27	MotEvo: integrated Bayesian probabilistic methods for inferring regulatory sites and motifs on multiple alignments of DNA sequences. Bioinformatics, 2012, 28, 487-494.	4.1	114
28	Tead2 expression levels control Yap/Taz subcellular distribution, zyxin expression, and epithelial-mesenchymal transition. Journal of Cell Science, 2014, 127, 1523-36.	2.0	113
29	The functional importance of telomere clustering: Global changes in gene expression result from SIR factor dispersion. Genome Research, 2009, 19, 611-625.	5.5	110
30	Modeling of epigenome dynamics identifies transcription factors that mediate Polycomb targeting. Genome Research, 2013, 23, 60-73.	5.5	108
31	Monitoring single-cell gene regulation under dynamically controllable conditions with integrated microfluidics and software. Nature Communications, 2018, 9, 212.	12.8	105
32	Metastable Evolutionary Dynamics: Crossing Fitness Barriers or Escaping via Neutral Paths?. Bulletin of Mathematical Biology, 2000, 62, 799-848.	1.9	99
33	Statistical Dynamics of the Royal Road Genetic Algorithm. Theoretical Computer Science, 1999, 229, 41-102.	0.9	98
34	MicroRNA-221–222 Regulate the Cell Cycle in Mast Cells. Journal of Immunology, 2009, 182, 433-445.	0.8	95
35	Investigate the origins of COVID-19. Science, 2021, 372, 694-694.	12.6	92
36	Expression noise facilitates the evolution of gene regulation. ELife, 2015, 4, .	6.0	88

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37	Finite populations induce metastability in evolutionary search. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 229, 144-150.	2.1	85
38	Parity induces differentiation and reduces Wnt/Notch signaling ratio and proliferation potential of basal stem/progenitor cells isolated from mouse mammary epithelium. Breast Cancer Research, 2013, 15, R36.	5.0	82
39	The Corepressor NCoR1 Antagonizes PGC-1 <i>α</i> and Estrogen-Related Receptor <i>α</i> in the Regulation of Skeletal Muscle Function and Oxidative Metabolism. Molecular and Cellular Biology, 2012, 32, 4913-4924.	2.3	74
40	A Simple Physical Model Predicts Small Exon Length Variations. PLoS Genetics, 2006, 2, e45.	3.5	69
41	FANTOM4 EdgeExpressDB: an integrated database of promoters, genes, microRNAs, expression dynamics and regulatory interactions. Genome Biology, 2009, 10, R39.	9.6	67
42	Quantitative analysis of persister fractions suggests different mechanisms of formation among environmental isolates of E. coli. BMC Microbiology, 2013, 13, 25.	3.3	65
43	The SIB Swiss Institute of Bioinformatics' resources: focus on curated databases. Nucleic Acids Research, 2016, 44, D27-D37.	14.5	64
44	Computational analysis of small RNA cloning data. Methods, 2008, 44, 13-21.	3.8	61
45	Splice Variation in Mouse Full-Length cDNAs Identified by Mapping to the Mouse Genome. Genome Research, 2002, 12, 1377-1385.	5.5	60
46	Probabilistic clustering of sequences: Inferring new bacterial regulons by comparative genomics. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7323-7328.	7.1	57
47	Universal patterns of purifying selection at noncoding positions in bacteria. Genome Research, 2008, 18, 148-160.	5.5	55
48	Influenza Escapes Immunity Along Neutral Networks. Science, 2006, 314, 1884-1886.	12.6	54
49	Timescales and bottlenecks in miRNAâ€dependent gene regulation. Molecular Systems Biology, 2013, 9, 711.	7.2	54
50	Discovery of physiological and cancer-related regulators of 3′ UTR processing with KAPAC. Genome Biology, 2018, 19, 44.	8.8	54
51	Scaling laws in functional genome content across prokaryotic clades and lifestyles. Trends in Genetics, 2009, 25, 243-247.	6.7	52
52	Bayesian inference of gene expression states from single-cell RNA-seq data. Nature Biotechnology, 2021, 39, 1008-1016.	17.5	50
53	Initiation of chromosome replication controls both division and replication cycles in E. coli through a double-adder mechanism. ELife, 2019, 8, .	6.0	50
54	Update of the FANTOM web resource: from mammalian transcriptional landscape to its dynamic regulation. Nucleic Acids Research, 2011, 39, D856-D860.	14.5	49

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55	Chromatin measurements reveal contributions of synthesis and decay to steadyâ€state mRNA levels. Molecular Systems Biology, 2012, 8, 593.	7.2	48
56	A large-scale, in vivo transcription factor screen defines bivalent chromatin as a key property of regulatory factors mediating <i>Drosophila</i> wing development. Genome Research, 2015, 25, 514-523.	5.5	45
57	Pegylated IFN-α regulates hepatic gene expression through transient Jak/STAT activation. Journal of Clinical Investigation, 2014, 124, 1568-1581.	8.2	43
58	Finding regulatory elements and regulatory motifs: a general probabilistic framework. BMC Bioinformatics, 2007, 8, S4.	2.6	42
59	Whole genome phylogenies reflect the distributions of recombination rates for many bacterial species. ELife, 2021, 10, .	6.0	42
60	Co-expression of FBN1 with mesenchyme-specific genes in mouse cell lines: implications for phenotypic variability in Marfan syndrome. European Journal of Human Genetics, 2010, 18, 1209-1215.	2.8	39
61	Tead transcription factors differentially regulate cortical development. Scientific Reports, 2020, 10, 4625.	3.3	38
62	Dynamics of One-pass Germinal Center Models: Implications for Affinity Maturation. Bulletin of Mathematical Biology, 2000, 62, 121-153.	1.9	35
63	Optimizing Epochal Evolutionary Search: Population-Size Dependent Theory. Machine Learning, 2001, 45, 77-114.	5.4	35
64	Embryonic stem cell-specific microRNAs contribute to pluripotency by inhibiting regulators of multiple differentiation pathways. Nucleic Acids Research, 2014, 42, 9313-9326.	14.5	32
65	Transcriptional Network Analysis in Muscle Reveals AP-1 as a Partner of PGC-1α in the Regulation of the Hypoxic Gene Program. Molecular and Cellular Biology, 2014, 34, 2996-3012.	2.3	32
66	Correlating Gene Expression Variation with cis-Regulatory Polymorphism in Saccharomyces cerevisiae. Genome Biology and Evolution, 2010, 2, 697-707.	2.5	31
67	Optimizing epochal evolutionary search: population-size independent theory. Computer Methods in Applied Mechanics and Engineering, 2000, 186, 171-194.	6.6	30
68	Transcription Factor Binding Site Positioning in Yeast: Proximal Promoter Motifs Characterize TATA-Less Promoters. PLoS ONE, 2011, 6, e24279.	2.5	30
69	The types and prevalence of alternative splice forms. Current Opinion in Structural Biology, 2006, 16, 362-367.	5.7	29
70	Genome-wide Expression Profiling, In Vivo DNA Binding Analysis, and Probabilistic Motif Prediction Reveal Novel Abf1 Target Genes during Fermentation, Respiration, and Sporulation in Yeast. Molecular Biology of the Cell, 2008, 19, 2193-2207.	2.1	29
71	Genome-wide gene expression noise in Escherichia coli is condition-dependent and determined by propagation of noise through the regulatory network. PLoS Biology, 2021, 19, e3001491.	5.6	29
72	Nucleosome Free Regions in Yeast Promoters Result from Competitive Binding of Transcription Factors That Interact with Chromatin Modifiers. PLoS Computational Biology, 2013, 9, e1003181.	3.2	28

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73	The evolution of domain-content in bacterial genomes. Biology Direct, 2008, 3, 51.	4.6	26
74	Multiomic atlas with functional stratification and developmental dynamics of zebrafish cis-regulatory elements. Nature Genetics, 2022, 54, 1037-1050.	21.4	26
75	Singleâ€cell <scp>mRNA</scp> profiling reveals the hierarchical response of mi <scp>RNA</scp> targets to mi <scp>RNA</scp> induction. Molecular Systems Biology, 2018, 14, e8266.	7.2	24
76	Transformation fingerprint: induced STAT3-C, v-Src and Ha-Ras cause small initial changes but similar established profiles in mRNA. Oncogene, 2004, 23, 8455-8463.	5.9	23
77	SPA: A Probabilistic Algorithm for Spliced Alignment. PLoS Genetics, 2006, 2, e24.	3.5	21
78	An epigenetic profile of early Tâ€cell development from multipotent progenitors to committed Tâ€cell descendants. European Journal of Immunology, 2014, 44, 1181-1193.	2.9	21
79	Quantifying the strength of miRNA–target interactions. Methods, 2015, 85, 90-99.	3.8	21
80	The Evolutionary Unfolding of Complexity. Natural Computing Series, 2002, , 67-94.	2.2	20
81	The Genomic Context and Corecruitment of SP1 Affect ERRα Coactivation by PGC-1α in Muscle Cells. Molecular Endocrinology, 2016, 30, 809-825.	3.7	20
82	Optimal Joint Segmentation and Tracking of Escherichia Coli in the Mother Machine. Lecture Notes in Computer Science, 2014, , 25-36.	1.3	20
83	Analysis of Human Immunodeficiency Virus Cytopathicity by Using a New Method for Quantitating Viral Dynamics in Cell Culture. Journal of Virology, 2005, 79, 4025-4032.	3.4	18
84	Computational modeling identifies key gene regulatory interactions underlying phenobarbital-mediated tumor promotion. Nucleic Acids Research, 2014, 42, 4180-4195.	14.5	17
85	Inferring Contacting Residues within and between Proteins: What Do the Probabilities Mean?. PLoS Computational Biology, 2016, 12, e1004726.	3.2	16
86	Scaling Laws in the Functional Content of Genomes. , 2006, , 236-253.		14
87	Using fluorescence flow cytometry data for single-cell gene expression analysis in bacteria. PLoS ONE, 2020, 15, e0240233.	2.5	14
88	Fifteen years SIB Swiss Institute of Bioinformatics: life science databases, tools and support. Nucleic Acids Research, 2014, 42, W436-W441.	14.5	13
89	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. PLoS Biology, 2020, 18, e3000952.	5.6	13
90	Detecting Regulatory Sites Using PhyloGibbs. Methods in Molecular Biology, 2007, 395, 381-402.	0.9	11

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91	Automated incorporation of pairwise dependency in transcription factor binding site prediction using dinucleotide weight tensors. PLoS Computational Biology, 2017, 13, e1005176.	3.2	10
92	Crunch: integrated processing and modeling of ChIP-seq data in terms of regulatory motifs. Genome Research, 2019, 29, 1164-1177.	5.5	7
93	PhyloGibbs: A Gibbs Sampler Incorporating Phylogenetic Information. Lecture Notes in Computer Science, 2005, , 30-41.	1.3	5
94	ARMADA: Using motif activity dynamics to infer gene regulatory networks from gene expression data. Methods, 2015, 85, 62-74.	3.8	5
95	An Atlas of Combinatorial Transcriptional Regulation in Mouse and Man. Cell, 2010, 141, 369.	28.9	4
96	The ISMARA client. F1000Research, 2016, 5, 2851.	1.6	4
97	Computational Analysis of Full-length cDNAs Reveals Frequent Coupling Between Transcriptional and Splicing Programs. DNA Research, 2008, 15, 63-72.	3.4	3
98	A Bayesian Algorithm for Reconstructing Two-Component Signaling Networks. Lecture Notes in Computer Science, 2006, , 44-55.	1.3	0
99	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. , 2020, 18, e3000952.		0
100	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. , 2020, 18, e3000952.		0
101	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. , 2020, 18, e3000952.		0
102	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. , 2020, 18, e3000952.		0
103	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. , 2020, 18, e3000952.		0
104	Subpopulations of sensorless bacteria drive fitness in fluctuating environments. , 2020, 18, e3000952.		0
105	Using fluorescence flow cytometry data for single-cell gene expression analysis in bacteria. , 2020, 15, e0240233.		0
106	Using fluorescence flow cytometry data for single-cell gene expression analysis in bacteria. , 2020, 15, e0240233.		0
107	Using fluorescence flow cytometry data for single-cell gene expression analysis in bacteria. , 2020, 15, e0240233.		0
108	Using fluorescence flow cytometry data for single-cell gene expression analysis in bacteria. , 2020, 15,		0

e0240233.

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109	Using fluorescence flow cytometry data for single-cell gene expression analysis in bacteria. , 2020, 15, e0240233.		0

110 Detecting Regulatory Sites Using PhyloGibbs. , 0, , 381-402.