

# Sven Bergmann

## List of Publications by Year in descending order

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139  
papers

34,164  
citations

14124

69  
h-index

10399

144  
g-index

156  
all docs

156  
docs citations

156  
times ranked

48286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Meta-GWAS Reveals Novel Genetic Variants Associated with Urinary Excretion of Uromodulin. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 511-529.	3.0	14
2	Analysis of Eukaryotic lincRNA Sequences Indicates Signatures of Hindered Translation Linked to Selection Pressure. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	0
3	Estimating RNA dynamics using one time point for one sample in a single-pulse metabolic labeling experiment. <i>BMC Bioinformatics</i> , 2022, 23, 147.	1.2	3
4	The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , 2021, 53, 840-860.	9.4	341
5	Genetic insights into biological mechanisms governing human ovarian ageing. <i>Nature</i> , 2021, 596, 393-397.	13.7	183
6	Inosine Substitutions in RNA Activate Latent G-Quadruplexes. <i>Journal of the American Chemical Society</i> , 2021, 143, 15120-15130.	6.6	12
7	Large-scale cis- and trans-eQTL analyses identify thousands of genetic loci and polygenic scores that regulate blood gene expression. <i>Nature Genetics</i> , 2021, 53, 1300-1310.	9.4	590
8	Untargeted Metabolome- and Transcriptome-Wide Association Study Suggests Causal Genes Modulating Metabolite Concentrations in Urine. <i>Journal of Proteome Research</i> , 2021, 20, 5103-5114.	1.8	6
9	Statistical mediation of the relationships between chronological age and lipoproteins by nonessential amino acids in healthy men. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6169-6178.	1.9	1
10	Mechanical forces drive ordered patterning of hair cells in the mammalian inner ear. <i>Nature Communications</i> , 2020, 11, 5137.	5.8	38
11	Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. <i>Molecular Psychiatry</i> , 2020, 26, 2111-2125.	4.1	17
12	<i>MONET</i>: a toolbox integrating top-performing methods for network modularization. <i>Bioinformatics</i> , 2020, 36, 3920-3921.	1.8	15
13	Automated Analysis of Large-Scale NMR Data Generates Metabolomic Signatures and Links Them to Candidate Metabolites. <i>Journal of Proteome Research</i> , 2019, 18, 3360-3368.	1.8	5
14	Genome-wide Association Study of Change in Fasting Glucose over time in 13,807 non-diabetic European Ancestry Individuals. <i>Scientific Reports</i> , 2019, 9, 9439.	1.6	5
15	Assessment of network module identification across complex diseases. <i>Nature Methods</i> , 2019, 16, 843-852.	9.0	213
16	Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels. <i>Nature Genetics</i> , 2019, 51, 1459-1474.	9.4	251
17	Multi-Omics and Genome-Scale Modeling Reveal a Metabolic Shift During <i>C. elegans</i> Aging. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 2.	1.6	61
18	A catalog of genetic loci associated with kidney function from analyses of a million individuals. <i>Nature Genetics</i> , 2019, 51, 957-972.	9.4	549

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19	Chromatin three-dimensional interactions mediate genetic effects on gene expression. <i>Science</i> , 2019, 364, .	6.0	163
20	Interoperable and scalable data analysis with microservices: applications in metabolomics. <i>Bioinformatics</i> , 2019, 35, 3752-3760.	1.8	22
21	Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. <i>Nature Genetics</i> , 2019, 51, 452-469.	9.4	89
22	PhenoMeNal: processing and analysis of metabolomics data in the cloud. <i>GigaScience</i> , 2019, 8, .	3.3	60
23	High capacity in G protein-coupled receptor signaling. <i>Nature Communications</i> , 2018, 9, 876.	5.8	40
24	Genome-Wide Meta-Analysis Unravels Interactions between Magnesium Homeostasis and Metabolic Phenotypes. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 335-348.	3.0	34
25	Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. <i>Nature Genetics</i> , 2018, 50, 26-41.	9.4	286
26	Rare and low-frequency coding variants alter human adult height. <i>Nature</i> , 2017, 542, 186-190.	13.7	544
27	cis -Acting Complex-Trait-Associated lincRNA Expression Correlates with Modulation of Chromosomal Architecture. <i>Cell Reports</i> , 2017, 18, 2280-2288.	2.9	67
28	Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk. <i>Nature Genetics</i> , 2017, 49, 834-841.	9.4	426
29	Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. <i>Nature Communications</i> , 2017, 8, 14977.	5.8	169
30	A genome-wide association meta-analysis on lipoprotein (a) concentrations adjusted for apolipoprotein (a) isoforms. <i>Journal of Lipid Research</i> , 2017, 58, 1834-1844.	2.0	114
31	NFAT5 and SLC4A10 Loci Associate with Plasma Osmolality. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 2311-2321.	3.0	24
32	Interaction between the <i>FTO</i> gene, body mass index and depression: meta-analysis of 13701 individuals. <i>British Journal of Psychiatry</i> , 2017, 211, 70-76.	1.7	49
33	Validation of a serum neutralization test for detection of antibodies specific to cyprinid herpesvirus 3 in infected common and koi carp ( <i>Cyprinus carpio</i> ). <i>Journal of Fish Diseases</i> , 2017, 40, 687-701.	0.9	6
34	Genome-Wide Association between Transcription Factor Expression and Chromatin Accessibility Reveals Regulators of Chromatin Accessibility. <i>PLoS Computational Biology</i> , 2017, 13, e1005311.	1.5	23
35	Metabomatching: Using genetic association to identify metabolites in proton NMR spectroscopy. <i>PLoS Computational Biology</i> , 2017, 13, e1005839.	1.5	17
36	Genome-wide physical activity interactions in adiposity – A meta-analysis of 200,452 adults. <i>PLoS Genetics</i> , 2017, 13, e1006528.	1.5	158

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37	Genome-Wide Analysis Reveals Novel Regulators of Growth in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2016, 12, e1005616.	1.5	55
38	Genetic variants associated with subjective well-being, depressive symptoms, and neuroticism identified through genome-wide analyses. <i>Nature Genetics</i> , 2016, 48, 624-633.	9.4	870
39	A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. <i>Nature Communications</i> , 2016, 7, 13357.	5.8	74
40	RNAseq analysis of heart tissue from mice treated with atenolol and isoproterenol reveals a reciprocal transcriptional response. <i>BMC Genomics</i> , 2016, 17, 717.	1.2	9
41	A genome-wide association meta-analysis on apolipoprotein A-IV concentrations. <i>Human Molecular Genetics</i> , 2016, 25, 3635-3646.	1.4	46
42	Genome-wide analysis identifies 12 loci influencing human reproductive behavior. <i>Nature Genetics</i> , 2016, 48, 1462-1472.	9.4	284
43	Genome-wide Association Studies Identify Genetic Loci Associated With Albuminuria in Diabetes. <i>Diabetes</i> , 2016, 65, 803-817.	0.3	131
44	Tissue-specific regulatory circuits reveal variable modular perturbations across complex diseases. <i>Nature Methods</i> , 2016, 13, 366-370.	9.0	306
45	Fast and Rigorous Computation of Gene and Pathway Scores from SNP-Based Summary Statistics. <i>PLoS Computational Biology</i> , 2016, 12, e1004714.	1.5	330
46	Pom1 gradient buffering through intermolecular auto-phosphorylation. <i>Molecular Systems Biology</i> , 2015, 11, 818.	3.2	22
47	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. <i>PLoS Genetics</i> , 2015, 11, e1005378.	1.5	331
48	Genome-Wide Association Study with Targeted and Non-targeted NMR Metabolomics Identifies 15 Novel Loci of Urinary Human Metabolic Individuality. <i>PLoS Genetics</i> , 2015, 11, e1005487.	1.5	83
49	A genetic risk score combining 32 SNPs is associated with body mass index and improves obesity prediction in people with major depressive disorder. <i>BMC Medicine</i> , 2015, 13, 86.	2.3	56
50	Directional dominance on stature and cognition in diverse human populations. <i>Nature</i> , 2015, 523, 459-462.	13.7	173
51	Sox4 participates in the modulation of Schwann cell myelination. <i>European Journal of Neuroscience</i> , 2015, 42, 1788-1796.	1.2	9
52	A Potential Contributory Role for Ciliary Dysfunction in the 16p11.2 600 kb BP4-BP5 Pathology. <i>American Journal of Human Genetics</i> , 2015, 96, 784-796.	2.6	53
53	Large-scale genomic analyses link reproductive aging to hypothalamic signaling, breast cancer susceptibility and BRCA1-mediated DNA repair. <i>Nature Genetics</i> , 2015, 47, 1294-1303.	9.4	357
54	Novel Approach Identifies SNPs in SLC2A10 and KCNK9 with Evidence for Parent-of-Origin Effect on Body Mass Index. <i>PLoS Genetics</i> , 2014, 10, e1004508.	1.5	80

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55	Genome-Wide Association Study of Metabolic Traits Reveals Novel Gene-Metabolite-Disease Links. <i>PLoS Genetics</i> , 2014, 10, e1004132.	1.5	86
56	Fifteen years SIB Swiss Institute of Bioinformatics: life science databases, tools and support. <i>Nucleic Acids Research</i> , 2014, 42, W436-W441.	6.5	13
57	Plasma membrane $H^{+}$ ATPase regulation is required for auxin gradient formation preceding phototropic growth. <i>Molecular Systems Biology</i> , 2014, 10, 751.	3.2	54
58	Distinct levels in Pom1 gradients limit Cdr2 activity and localization to time and position division. <i>Cell Cycle</i> , 2014, 13, 538-552.	1.3	54
59	DNA mismatch repair gene MSH6 implicated in determining age at natural menopause. <i>Human Molecular Genetics</i> , 2014, 23, 2490-2497.	1.4	56
60	GWAS of human bitter taste perception identifies new loci and reveals additional complexity of bitter taste genetics. <i>Human Molecular Genetics</i> , 2014, 23, 259-267.	1.4	51
61	A Higher Mutational Burden in Females Supports a "Female Protective Model" in Neurodevelopmental Disorders. <i>American Journal of Human Genetics</i> , 2014, 94, 415-425.	2.6	457
62	Common Variants in UMOD Associate with Urinary Uromodulin Levels. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1869-1882.	3.0	85
63	Effects of Long-Term Averaging of Quantitative Blood Pressure Traits on the Detection of Genetic Associations. <i>American Journal of Human Genetics</i> , 2014, 95, 49-65.	2.6	73
64	Parent-of-origin-specific allelic associations among 106 genomic loci for age at menarche. <i>Nature</i> , 2014, 514, 92-97.	13.7	548
65	Defining the role of common variation in the genomic and biological architecture of adult human height. <i>Nature Genetics</i> , 2014, 46, 1173-1186.	9.4	1,818
66	Light intensity modulates the regulatory network of the shade avoidance response in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6515-6520.	3.3	111
67	The protective effect of the obesity-associated rs9939609 A variant in fat mass- and obesity-associated gene on depression. <i>Molecular Psychiatry</i> , 2013, 18, 1281-1286.	4.1	115
68	Common Variants in Mendelian Kidney Disease Genes and Their Association with Renal Function. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 2105-2117.	3.0	33
69	Defining the Site of Light Perception and Initiation of Phototropism in <i>Arabidopsis</i> . <i>Current Biology</i> , 2013, 23, 1934-1938.	1.8	47
70	The Hourglass and the Early Conservation Models "Co-Existing Patterns of Developmental Constraints in Vertebrates. <i>PLoS Genetics</i> , 2013, 9, e1003476.	1.5	73
71	Meta-Analysis of Genome-Wide Association Studies Identifies Six New Loci for Serum Calcium Concentrations. <i>PLoS Genetics</i> , 2013, 9, e1003796.	1.5	142
72	A genome-wide association study of early menopause and the combined impact of identified variants. <i>Human Molecular Genetics</i> , 2013, 22, 1465-1472.	1.4	104

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73	Manipulating the Sensitivity of Signal-Induced Repression: Quantification and Consequences of Altered Brinker Gradients. PLoS ONE, 2013, 8, e71224.	1.1	7
74	Genome-Wide Association and Functional Follow-Up Reveals New Loci for Kidney Function. PLoS Genetics, 2012, 8, e1002584.	1.5	166
75	Phytochrome Kinase Substrate 4 is phosphorylated by the phototropin 1 photoreceptor. EMBO Journal, 2012, 31, 3457-3467.	3.5	82
76	Integration of genome-wide association studies with biological knowledge identifies six novel genes related to kidney function. Human Molecular Genetics, 2012, 21, 5329-5343.	1.4	64
77	Caffeine intake and CYP1A2 variants associated with high caffeine intake protect non-smokers from hypertension. Human Molecular Genetics, 2012, 21, 3283-3292.	1.4	55
78	No Interactions Between Previously Associated 2-Hour Glucose Gene Variants and Physical Activity or BMI on 2-Hour Glucose Levels. Diabetes, 2012, 61, 1291-1296.	0.3	23
79	Nuclear Phytochrome A Signaling Promotes Phototropism in <i>Arabidopsis</i> . Plant Cell, 2012, 24, 566-576.	3.1	54
80	Comparative modular analysis of gene expression in vertebrate organs. BMC Genomics, 2012, 13, 124.	1.2	9
81	Discovery and Fine Mapping of Serum Protein Loci through Transethnic Meta-analysis. American Journal of Human Genetics, 2012, 91, 744-753.	2.6	69
82	Mapping Genetic Variants Associated with Beta-Adrenergic Responses in Inbred Mice. PLoS ONE, 2012, 7, e41032.	1.1	8
83	Aging of myelinating glial cells predominantly affects lipid metabolism and immune response pathways. Glia, 2012, 60, 751-760.	2.5	27
84	Iterative Estimation of Rigid-Body Transformations. Journal of Mathematical Imaging and Vision, 2012, 43, 1-9.	0.8	6
85	Depressive disorder moderates the effect of the FTO gene on body mass index. Molecular Psychiatry, 2012, 17, 604-611.	4.1	72
86	Modeling morphogen gradient formation from arbitrary realistically shaped sources. Journal of Theoretical Biology, 2012, 294, 130-138.	0.8	24
87	Genetic Polymorphisms of the Main Transcription Factors for Adiponectin Gene Promoter in Regulation of Adiponectin Levels: Association Analysis in Three European Cohorts. PLoS ONE, 2012, 7, e52497.	1.1	7
88	Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk. Nature, 2011, 478, 103-109.	13.7	1,855
89	Mirror extreme BMI phenotypes associated with gene dosage at the chromosome 16p11.2 locus. Nature, 2011, 478, 97-102.	13.7	394
90	SIRT1 Activates MAO-A in the Brain to Mediate Anxiety and Exploratory Drive. Cell, 2011, 147, 1459-1472.	13.5	202

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91	Sensitivity of Genome-Wide-Association Signals to Phenotyping Strategy: The PROP-TAS2R38 Taste Association as a Benchmark. <i>PLoS ONE</i> , 2011, 6, e27745.	1.1	41
92	Genome-wide association study identifies two loci strongly affecting transferrin glycosylation. <i>Human Molecular Genetics</i> , 2011, 20, 3710-3717.	1.4	31
93	The evolution of gene expression levels in mammalian organs. <i>Nature</i> , 2011, 478, 343-348.	13.7	1,080
94	Novel method to estimate the phenotypic variation explained by genome-wide association studies reveals large fraction of the missing heritability. <i>Genetic Epidemiology</i> , 2011, 35, 341-349.	0.6	23
95	CUBN Is a Gene Locus for Albuminuria. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 555-570.	3.0	208
96	Methods for testing association between uncertain genotypes and quantitative traits. <i>Biostatistics</i> , 2011, 12, 1-17.	0.9	35
97	Variant Within the Promoter Region of the CHRNA3 Gene Associated With FTN Dependence Is Not Related to Self-Reported Willingness to Quit Smoking. <i>Nicotine and Tobacco Research</i> , 2011, 13, 833-839.	1.4	9
98	Association of genetic variation with systolic and diastolic blood pressure among African Americans: the Candidate Gene Association Resource study. <i>Human Molecular Genetics</i> , 2011, 20, 2273-2284.	1.4	168
99	Genome-wide association study identifies six new loci influencing pulse pressure and mean arterial pressure. <i>Nature Genetics</i> , 2011, 43, 1005-1011.	9.4	403
100	Formation of the Long Range Dpp Morphogen Gradient. <i>PLoS Biology</i> , 2011, 9, e1001111.	2.6	75
101	Dpp Signaling Activity Requires Pentagone to Scale with Tissue Size in the Growing <i>Drosophila</i> Wing Imaginal Disc. <i>PLoS Biology</i> , 2011, 9, e1001182.	2.6	107
102	Using Transcription Modules to Identify Expression Clusters Perturbed in Williams-Beuren Syndrome. <i>PLoS Computational Biology</i> , 2011, 7, e1001054.	1.5	36
103	Physical Activity Attenuates the Influence of FTO Variants on Obesity Risk: A Meta-Analysis of 218,166 Adults and 19,268 Children. <i>PLoS Medicine</i> , 2011, 8, e1001116.	3.9	446
104	Comparison of Strategies to Detect Epistasis from eQTL Data. <i>PLoS ONE</i> , 2011, 6, e28415.	1.1	8
105	Precision and scaling in morphogen gradient readout. <i>Molecular Systems Biology</i> , 2010, 6, 351.	3.2	41
106	Pre-steady and stable morphogen gradients: can they coexist?. <i>Molecular Systems Biology</i> , 2010, 6, .	3.2	8
107	A new highly penetrant form of obesity due to deletions on chromosome 16p11.2. <i>Nature</i> , 2010, 463, 671-675.	13.7	476
108	Hundreds of variants clustered in genomic loci and biological pathways affect human height. <i>Nature</i> , 2010, 467, 832-838.	13.7	1,789

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109	Genome-wide association study identifies new HLA class II haplotypes strongly protective against narcolepsy. <i>Nature Genetics</i> , 2010, 42, 786-789.	9.4	170
110	Meta-analysis identifies 13 new loci associated with waist-hip ratio and reveals sexual dimorphism in the genetic basis of fat distribution. <i>Nature Genetics</i> , 2010, 42, 949-960.	9.4	836
111	Association analyses of 249,796 individuals reveal 18 new loci associated with body mass index. <i>Nature Genetics</i> , 2010, 42, 937-948.	9.4	2,634
112	Thirty new loci for age at menarche identified by a meta-analysis of genome-wide association studies. <i>Nature Genetics</i> , 2010, 42, 1077-1085.	9.4	445
113	Global Transcriptional Programs in Peripheral Nerve Endoneurium and DRG Are Resistant to the Onset of Type 1 Diabetic Neuropathy in <i>Ins2Akita/+</i> Mice. <i>PLoS ONE</i> , 2010, 5, e10832.	1.1	12
114	Genome-Wide Meta-Analysis for Serum Calcium Identifies Significantly Associated SNPs near the Calcium-Sensing Receptor (CASR) Gene. <i>PLoS Genetics</i> , 2010, 6, e1001035.	1.5	84
115	New genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. <i>Nature Genetics</i> , 2010, 42, 105-116.	9.4	1,982
116	No interaction between alcohol consumption and HDL-related genes on HDL cholesterol levels. <i>Atherosclerosis</i> , 2010, 211, 551-557.	0.4	21
117	From Modules to Models: Advanced Analysis Methods for Large-Scale Data. , 2009, , 59-83.		0
118	Meta-Analysis of 28,141 Individuals Identifies Common Variants within Five New Loci That Influence Uric Acid Concentrations. <i>PLoS Genetics</i> , 2009, 5, e1000504.	1.5	572
119	Genome-wide association study identifies eight loci associated with blood pressure. <i>Nature Genetics</i> , 2009, 41, 666-676.	9.4	1,104
120	Cardiovascular Response to Beta-Adrenergic Blockade or Activation in 23 Inbred Mouse Strains. <i>PLoS ONE</i> , 2009, 4, e6610.	1.1	32
121	Association of ABCB1 genetic variants with renal function in Africans and in Caucasians. <i>BMC Medical Genomics</i> , 2008, 1, 21.	0.7	14
122	Population-Based Genome-wide Association Studies Reveal Six Loci Influencing Plasma Levels of Liver Enzymes. <i>American Journal of Human Genetics</i> , 2008, 83, 520-528.	2.6	402
123	Genes mirror geography within Europe. <i>Nature</i> , 2008, 456, 98-101.	13.7	1,287
124	A modular approach for integrative analysis of large-scale gene-expression and drug-response data. <i>Nature Biotechnology</i> , 2008, 26, 531-539.	9.4	111
125	Genome-wide association analysis identifies 20 loci that influence adult height. <i>Nature Genetics</i> , 2008, 40, 575-583.	9.4	742
126	Common variants near MC4R are associated with fat mass, weight and risk of obesity. <i>Nature Genetics</i> , 2008, 40, 768-775.	9.4	1,179



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127	Pathology and mass mortality of Pacific oysters, <i>Crassostrea gigas</i> (Thunberg), in 2005 at the East Frisian coast, Germany. <i>Journal of Fish Diseases</i> , 2008, 31, 621-630.	0.9	37
128	Re-examining the Stability of the Bicoid Morphogen Gradient. <i>Cell</i> , 2008, 132, 15-17.	13.5	29
129	Pre-Steady-State Decoding of the Bicoid Morphogen Gradient. <i>PLoS Biology</i> , 2007, 5, e46.	2.6	183
130	Cell-mediated cytotoxicity in rainbow trout, <i>Oncorhynchus mykiss</i> , infected with viral haemorrhagic septicaemia virus. <i>Fish and Shellfish Immunology</i> , 2007, 22, 182-196.	1.6	108
131	The DCX Superfamily 1: Common and Divergent Roles for Members of the Mouse DCX Superfamily. <i>Cell Cycle</i> , 2006, 5, 976-983.	1.3	62
132	Comparative genome hybridization reveals widespread aneuploidy in <i>Candida albicans</i> laboratory strains. <i>Molecular Microbiology</i> , 2005, 55, 1553-1565.	1.2	175
133	Comparative Gene Expression Analysis by a Differential Clustering Approach: Application to the <i>Candida albicans</i> Transcription Program. <i>PLoS Genetics</i> , 2005, 1, e39.	1.5	124
134	Rewiring of the Yeast Transcriptional Network Through the Evolution of Motif Usage. <i>Science</i> , 2005, 309, 938-940.	6.0	268
135	Challenges and prospects in the analysis of large-scale gene expression data. <i>Briefings in Bioinformatics</i> , 2004, 5, 313-327.	3.2	19
136	Defining transcription modules using large-scale gene expression data. <i>Bioinformatics</i> , 2004, 20, 1993-2003.	1.8	301
137	Iterative signature algorithm for the analysis of large-scale gene expression data. <i>Physical Review E</i> , 2003, 67, 031902.	0.8	322
138	Similarities and Differences in Genome-Wide Expression Data of Six Organisms. <i>PLoS Biology</i> , 2003, 2, e9.	2.6	294
139	Revealing modular organization in the yeast transcriptional network. <i>Nature Genetics</i> , 2002, 31, 370-377.	9.4	664