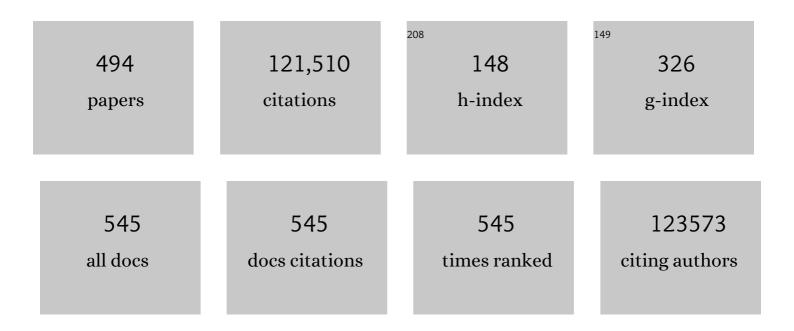
## Mark B Gerstein

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7059353/publications.pdf Version: 2024-02-01



| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | RNA-Seq: a revolutionary tool for transcriptomics. Nature Reviews Genetics, 2009, 10, 57-63.  | 16.3 | 10,529    |
| 2  | Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. Nature, 2007, 447, 799-816.                                     | 27.8 | 4,709     |
| 3  | Landscape of transcription in human cells. Nature, 2012, 489, 101-108.  | 27.8 | 4,484     |
| 4  | GENCODE: The reference human genome annotation for The ENCODE Project. Genome Research, 2012, 22, 1760-1774.  | 5.5  | 4,217     |
| 5  | Functional profiling of the Saccharomyces cerevisiae genome. Nature, 2002, 418, 387-391.  | 27.8 | 3,938     |
| 6  | Global landscape of protein complexes in the yeast Saccharomyces cerevisiae. Nature, 2006, 440,<br>637-643.   | 27.8 | 2,681     |
| 7  | GENCODE reference annotation for the human and mouse genomes. Nucleic Acids Research, 2019, 47, D766-D773.  | 14.5 | 2,350     |
| 8  | The Transcriptional Landscape of the Yeast Genome Defined by RNA Sequencing. Science, 2008, 320, 1344-1349.   | 12.6 | 2,180     |
| 9  | Global Analysis of Protein Activities Using Proteome Chips. Science, 2001, 293, 2101-2105.  | 12.6 | 2,082     |
| 10 | An integrated map of structural variation in 2,504 human genomes. Nature, 2015, 526, 75-81.   | 27.8 | 1,994     |
| 11 | ChIP-seq guidelines and practices of the ENCODE and modENCODE consortia. Genome Research, 2012, 22, 1813-1831.  | 5.5  | 1,708     |
| 12 | A Map of the Interactome Network of the Metazoan <i>C. elegans</i> . Science, 2004, 303, 540-543.   | 12.6 | 1,587     |
| 13 | Comparing protein abundance and mRNA expression levels on a genomic scale. Genome Biology, 2003, 4, 117.  | 9.6  | 1,453     |
| 14 | CNVnator: An approach to discover, genotype, and characterize typical and atypical CNVs from family and population genome sequencing. Genome Research, 2011, 21, 974-984. | 5.5  | 1,387     |
| 15 | Architecture of the human regulatory network derived from ENCODE data. Nature, 2012, 489, 91-100.   | 27.8 | 1,384     |
| 16 | Expanded encyclopaedias of DNA elements in the human and mouse genomes. Nature, 2020, 583, 699-710.   | 27.8 | 1,252     |
| 17 | A Bayesian Networks Approach for Predicting Protein-Protein Interactions from Genomic Data.<br>Science, 2003, 302, 449-453.   | 12.6 | 1,183     |
| 18 | Transcriptional landscape of the prenatal human brain. Nature, 2014, 508, 199-206.  | 27.8 | 1,147     |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Personal Omics Profiling Reveals Dynamic Molecular and Medical Phenotypes. Cell, 2012, 148, 1293-1307.   | 28.9 | 1,134     |
| 20 | The genomic complexity of primary human prostate cancer. Nature, 2011, 470, 214-220.   | 27.8 | 1,107     |
| 21 | Extensive Promoter-Centered Chromatin Interactions Provide a Topological Basis for Transcription Regulation. Cell, 2012, 148, 84-98.                     | 28.9 | 1,096     |
| 22 | A Systematic Survey of Loss-of-Function Variants in Human Protein-Coding Genes. Science, 2012, 335, 823-828.   | 12.6 | 1,095     |
| 23 | Comprehensive Molecular Characterization of Papillary Renal-Cell Carcinoma. New England Journal of Medicine, 2016, 374, 135-145.                         | 27.0 | 1,040     |
| 24 | Evaluation of 16S rRNA gene sequencing for species and strain-level microbiome analysis. Nature Communications, 2019, 10, 5029.                          | 12.8 | 1,007     |
| 25 | Paired-End Mapping Reveals Extensive Structural Variation in the Human Genome. Science, 2007, 318, 420-426.  | 12.6 | 1,003     |
| 26 | Mapping copy number variation by population-scale genome sequencing. Nature, 2011, 470, 59-65.   | 27.8 | 991       |
| 27 | Global Identification of Human Transcribed Sequences with Genome Tiling Arrays. Science, 2004, 306, 2242-2246.   | 12.6 | 983       |
| 28 | KBase: The United States Department of Energy Systems Biology Knowledgebase. Nature Biotechnology,<br>2018, 36, 566-569.                                 | 17.5 | 955       |
| 29 | Genomic analysis of regulatory network dynamics reveals large topological changes. Nature, 2004,<br>431, 308-312.  | 27.8 | 921       |
| 30 | Global analysis of protein phosphorylation in yeast. Nature, 2005, 438, 679-684.   | 27.8 | 915       |
| 31 | Integrative Analysis of the <i>Caenorhabditis elegans</i> Genome by the modENCODE Project. Science, 2010, 330, 1775-1787.                                | 12.6 | 912       |
| 32 | FOXG1-Dependent Dysregulation of GABA/Glutamate Neuron Differentiation in Autism Spectrum Disorders. Cell, 2015, 162, 375-390.                           | 28.9 | 894       |
| 33 | The Importance of Bottlenecks in Protein Networks: Correlation with Gene Essentiality and Expression Dynamics. PLoS Computational Biology, 2007, 3, e59. | 3.2  | 849       |
| 34 | Analysis of yeast protein kinases using protein chips. Nature Genetics, 2000, 26, 283-289.   | 21.4 | 810       |
| 35 | Transcriptome-wide isoform-level dysregulation in ASD, schizophrenia, and bipolar disorder. Science, 2018, 362, .  | 12.6 | 805       |
| 36 | Unlocking the secrets of the genome. Nature, 2009, 459, 927-930.   | 27.8 | 744       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Molecular Characterization of Neuroendocrine Prostate Cancer and Identification of New Drug<br>Targets. Cancer Discovery, 2011, 1, 487-495.   | 9.4  | 725       |
| 38 | Subcellular localization of the yeast proteome. Genes and Development, 2002, 16, 707-719.   | 5.9  | 667       |
| 39 | Multi-platform discovery of haplotype-resolved structural variation in human genomes. Nature<br>Communications, 2019, 10, 1784.   | 12.8 | 636       |
| 40 | Defining functional DNA elements in the human genome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6131-6138.  | 7.1  | 635       |
| 41 | GENCODE 2021. Nucleic Acids Research, 2021, 49, D916-D923.  | 14.5 | 633       |
| 42 | Comprehensive functional genomic resource and integrative model for the human brain. Science, 2018, 362, .  | 12.6 | 618       |
| 43 | Relating Whole-Genome Expression Data with Protein-Protein Interactions. Genome Research, 2002, 12, 37-46.  | 5.5  | 605       |
| 44 | Statistical analysis of amino acid patterns in transmembrane helices: the GxxxG motif occurs<br>frequently and in association with β-branched residues at neighboring positions. Journal of Molecular<br>Biology, 2000, 296, 921-936.   | 4.2  | 567       |
| 45 | Volume changes on protein folding. Structure, 1994, 2, 641-649.   | 3.3  | 546       |
| 46 | Spectral Biclustering of Microarray Data: Coclustering Genes and Conditions. Genome Research, 2003, 13, 703-716.  | 5.5  | 536       |
| 47 | A standard reference frame for the description of nucleic acid base-pair geometry 1 TEdited by P. E.<br>Wright 2 2This is a document of the Nomenclature Committee of IUBMB (NC-IUBMB)/IUPAC-IUBMB Joint<br>Commission on Biochemical Nomenclature (JCBN), whose members are R. Cammack (chairman), A.<br>Bairoch, H.M. Berman, S. Boyce, C.R. Cantor, K. Elliott, D. Horton, M. Kanehisa, A. Kotyk, G.P. Moss, N.<br>Sharon and K.F. Tipton. Journal of Molecular Biology, 2001, 313, 229-237. | 4.2  | 533       |
| 48 | What is a gene, post-ENCODE? History and updated definition. Genome Research, 2007, 17, 669-681.  | 5.5  | 530       |
| 49 | Large-scale analysis of the yeast genome by transposon tagging and gene disruption. Nature, 1999, 402, 413-418.   | 27.8 | 521       |
| 50 | Variation in Transcription Factor Binding Among Humans. Science, 2010, 328, 232-235.  | 12.6 | 521       |
| 51 | Annotation Transfer Between Genomes: Protein-Protein Interologs and Protein-DNA Regulogs. Genome<br>Research, 2004, 14, 1107-1118.  | 5.5  | 516       |
| 52 | Integrative functional genomic analysis of human brain development and neuropsychiatric risks.<br>Science, 2018, 362, .   | 12.6 | 516       |
| 53 | PeakSeq enables systematic scoring of ChIP-seq experiments relative to controls. Nature<br>Biotechnology, 2009, 27, 66-75.  | 17.5 | 514       |
| 54 | The packing density in proteins: standard radii and volumes 1 1Edited by J. M. Thornton. Journal of<br>Molecular Biology, 1999, 290, 253-266.   | 4.2  | 482       |

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|----|--|------|-----------|
| 55 | Getting connected: analysis and principles of biological networks. Genes and Development, 2007, 21, 1010-1024.   | 5.9  | 477       |
| 56 | A cis-regulatory map of the Drosophila genome. Nature, 2011, 471, 527-531.   | 27.8 | 477       |
| 57 | New insights into <i>Acinetobacter baumannii</i> pathogenesis revealed by high-density pyrosequencing and transposon mutagenesis. Genes and Development, 2007, 21, 601-614.  | 5.9  | 455       |
| 58 | Relating Three-Dimensional Structures to Protein Networks Provides Evolutionary Insights. Science, 2006, 314, 1938-1941.   | 12.6 | 447       |
| 59 | Biochemical and genetic analysis of the yeast proteome with a movable ORF collection. Genes and Development, 2005, 19, 2816-2826.  | 5.9  | 443       |
| 60 | MAPK target networks in <i>Arabidopsis thaliana</i> revealed using functional protein microarrays.<br>Genes and Development, 2009, 23, 80-92.  | 5.9  | 438       |
| 61 | Diverse Cellular Functions of the Hsp90 Molecular Chaperone Uncovered Using Systems Approaches.<br>Cell, 2007, 131, 121-135.   | 28.9 | 437       |
| 62 | Comprehensive analysis of chromothripsis in 2,658 human cancers using whole-genome sequencing.<br>Nature Genetics, 2020, 52, 331-341.  | 21.4 | 431       |
| 63 | Analyses of non-coding somatic drivers in 2,658Âcancer whole genomes. Nature, 2020, 578, 102-111.  | 27.8 | 424       |
| 64 | Role of non-coding sequence variants in cancer. Nature Reviews Genetics, 2016, 17, 93-108.   | 16.3 | 420       |
| 65 | Annotating non-coding regions of the genome. Nature Reviews Genetics, 2010, 11, 559-571.   | 16.3 | 398       |
| 66 | The relationship between protein structure and function: a comprehensive survey with application to the yeast genome. Journal of Molecular Biology, 1999, 288, 147-164.  | 4.2  | 384       |
| 67 | The Reality of Pervasive Transcription. PLoS Biology, 2011, 9, e1000625.   | 5.6  | 380       |
| 68 | Millions of Years of Evolution Preserved: A Comprehensive Catalog of the Processed Pseudogenes in the Human Genome. Genome Research, 2003, 13, 2541-2558.  | 5.5  | 376       |
| 69 | The PsychENCODE project. Nature Neuroscience, 2015, 18, 1707-1712.   | 14.8 | 371       |
| 70 | Differential binding of calmodulin-related proteins to their targets revealed through high-density<br>Arabidopsis protein microarrays. Proceedings of the National Academy of Sciences of the United<br>States of America, 2007, 104, 4730-4735. | 7.1  | 369       |
| 71 | A Single-Cell Transcriptomic Atlas of Human Neocortical Development during Mid-gestation. Neuron, 2019, 103, 785-801.e8.   | 8.1  | 361       |
| 72 | Haplotype-resolved diverse human genomes and integrated analysis of structural variation. Science, 2021, 372, .  | 12.6 | 358       |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | Somatic copy number mosaicism in human skin revealed by induced pluripotent stem cells. Nature, 2012, 492, 438-442.  | 27.8 | 355       |
| 74 | Assessing annotation transfer for genomics: quantifying the relations between protein sequence, structure and function through traditional and probabilistic scores. Journal of Molecular Biology, 2000, 297, 233-249.                 | 4.2  | 345       |
| 75 | The genetic architecture of Down syndrome phenotypes revealed by high-resolution analysis of<br>human segmental trisomies. Proceedings of the National Academy of Sciences of the United States of<br>America, 2009, 106, 12031-12036. | 7.1  | 342       |
| 76 | Deciphering Protein Kinase Specificity Through Large-Scale Analysis of Yeast Phosphorylation Site<br>Motifs. Science Signaling, 2010, 3, ra12.   | 3.6  | 341       |
| 77 | Integrative Annotation of Variants from 1092 Humans: Application to Cancer Genomics. Science, 2013, 342, 1235587.  | 12.6 | 341       |
| 78 | Defining the TRiC/CCT interactome links chaperonin function to stabilization of newly made proteins with complex topologies. Nature Structural and Molecular Biology, 2008, 15, 1255-1262.   | 8.2  | 340       |
| 79 | A database of macromolecular motions. Nucleic Acids Research, 1998, 26, 4280-4290.   | 14.5 | 333       |
| 80 | A myelopoiesis-associated regulatory intergenic noncoding RNA transcript within the human HOXA cluster. Blood, 2009, 113, 2526-2534.   | 1.4  | 330       |
| 81 | Identification of a Disease-Defining Gene Fusion in Epithelioid Hemangioendothelioma. Science<br>Translational Medicine, 2011, 3, 98ra82.  | 12.4 | 328       |
| 82 | Divergence of Transcription Factor Binding Sites Across Related Yeast Species. Science, 2007, 317, 815-819.  | 12.6 | 320       |
| 83 | Genomic analysis of essentiality within protein networks. Trends in Genetics, 2004, 20, 227-231.   | 6.7  | 303       |
| 84 | Genomic analysis of the hierarchical structure of regulatory networks. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14724-14731.  | 7.1  | 299       |
| 85 | The real cost of sequencing: higher than you think!. Genome Biology, 2011, 12, 125.  | 9.6  | 299       |
| 86 | Distribution of NF-κB-binding sites across human chromosome 22. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12247-12252.   | 7.1  | 298       |
| 87 | FunSeq2: a framework for prioritizing noncoding regulatory variants in cancer. Genome Biology, 2014, 15, 480.  | 8.8  | 291       |
| 88 | Comparative analysis of the transcriptome across distant species. Nature, 2014, 512, 445-448.  | 27.8 | 289       |
| 89 | AlleleSeq: analysis of alleleâ€ <b>s</b> pecific expression and binding in a network framework. Molecular<br>Systems Biology, 2011, 7, 522.  | 7.2  | 284       |
| 90 | Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. Nature Genetics, 2020, 52, 306-319.   | 21.4 | 275       |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | The minimum information required for reporting a molecular interaction experiment (MIMIx). Nature<br>Biotechnology, 2007, 25, 894-898.  | 17.5 | 274       |
| 92  | The GENCODE pseudogene resource. Genome Biology, 2012, 13, R51.   | 9.6  | 273       |
| 93  | Structural proteomics of an archaeon. Nature Structural Biology, 2000, 7, 903-909.  | 9.7  | 272       |
| 94  | Bridging structural biology and genomics: assessing protein interaction data with known complexes.<br>Trends in Genetics, 2002, 18, 529-536.  | 6.7  | 265       |
| 95  | Characterization of stressâ€responsive lnc <scp>RNA</scp> s in <i><scp>A</scp>rabidopsis thaliana</i> by integrating expression, epigenetic and structural features. Plant Journal, 2014, 80, 848-861.        | 5.7  | 264       |
| 96  | The real cost of sequencing: scaling computation to keep pace with data generation. Genome Biology, 2016, 17, 53.   | 8.8  | 264       |
| 97  | The transcriptional activity of human Chromosome 22. Genes and Development, 2003, 17, 529-540.  | 5.9  | 253       |
| 98  | Normal mode analysis of macromolecular motions in a database framework: Developing mode concentration as a useful classifying statistic. Proteins: Structure, Function and Bioinformatics, 2002, 48, 682-695. | 2.6  | 248       |
| 99  | The Volume of Atoms on the Protein Surface: Calculated from Simulation, using Voronoi Polyhedra.<br>Journal of Molecular Biology, 1995, 249, 955-966.   | 4.2  | 243       |
| 100 | Genomic analysis of gene expression relationships in transcriptional regulatory networks. Trends in Genetics, 2003, 19, 422-427.  | 6.7  | 238       |
| 101 | Protein family and fold occurrence in genomes: power-law behaviour and evolutionary model.<br>Journal of Molecular Biology, 2001, 313, 673-681.   | 4.2  | 237       |
| 102 | Complex transcriptional circuitry at the G1/S transition in Saccharomyces cerevisiae. Genes and Development, 2002, 16, 3017-3033.   | 5.9  | 236       |
| 103 | Classification of human genomic regions based on experimentally determined binding sites of more than 100 transcription-related factors. Genome Biology, 2012, 13, R48.                                       | 9.6  | 233       |
| 104 | The Temporal Patterning MicroRNA let-7 Regulates Several Transcription Factors at the Larval to Adult Transition in C. elegans. Developmental Cell, 2005, 8, 321-330.   | 7.0  | 231       |
| 105 | Modeling gene expression using chromatin features in various cellular contexts. Genome Biology, 2012, 13, R53.  | 9.6  | 231       |
| 106 | exRNA Atlas Analysis Reveals Distinct Extracellular RNA Cargo Types and Their Carriers Present across<br>Human Biofluids. Cell, 2019, 177, 463-477.e15.   | 28.9 | 228       |
| 107 | Gaining comprehensive biological insight into the transcriptome by performing a broad-spectrum RNA-seq analysis. Nature Communications, 2017, 8, 59.  | 12.8 | 225       |
| 108 | Patterns of nucleotide substitution, insertion and deletion in the human genome inferred from pseudogenes. Nucleic Acids Research, 2003, 31, 5338-5348.   | 14.5 | 224       |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 109 | Diverse transcription factor binding features revealed by genome-wide ChIP-seq in <i>C. elegans</i> .<br>Genome Research, 2011, 21, 245-254.                  | 5.5  | 224       |
| 110 | Regulation of Gene Expression by a Metabolic Enzyme. Science, 2004, 306, 482-484.   | 12.6 | 223       |
| 111 | Transcriptome and epigenome landscape of human cortical development modeled in organoids.<br>Science, 2018, 362, .  | 12.6 | 220       |
| 112 | TOS9 Regulates White-Opaque Switching in Candida albicans. Eukaryotic Cell, 2006, 5, 1674-1687.   | 3.4  | 207       |
| 113 | The role of disorder in interaction networks: a structural analysis. Molecular Systems Biology, 2008,<br>4, 179.  | 7.2  | 206       |
| 114 | The origin, evolution, and functional impact of short insertion–deletion variants identified in 179<br>human genomes. Genome Research, 2013, 23, 749-761.     | 5.5  | 206       |
| 115 | Computational analysis of membrane proteins: the largest class of drug targets. Drug Discovery<br>Today, 2009, 14, 1130-1135.                                 | 6.4  | 204       |
| 116 | Comparative analysis of processed pseudogenes in the mouse and human genomes. Trends in Genetics, 2004, 20, 62-67.  | 6.7  | 201       |
| 117 | Extensive In Vivo Metabolite-Protein Interactions Revealed by Large-Scale Systematic Analyses. Cell, 2010, 143, 639-650.                                      | 28.9 | 200       |
| 118 | Reconstruction of enhancer–target networks in 935 samples of human primary cells, tissues and cell<br>lines. Nature Genetics, 2017, 49, 1428-1436.            | 21.4 | 194       |
| 119 | Molecular and cellular reorganization of neural circuits in the human lineage. Science, 2017, 358, 1027-1032.   | 12.6 | 192       |
| 120 | Pseudogenes in the ENCODE regions: Consensus annotation, analysis of transcription, and evolution.<br>Genome Research, 2007, 17, 839-851.                     | 5.5  | 191       |
| 121 | Comprehensive assessment of automatic structural alignment against a manual standard, the scop classification of proteins. Protein Science, 1998, 7, 445-456. | 7.6  | 190       |
| 122 | Mapping accessible chromatin regions using Sono-Seq. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14926-14931. | 7.1  | 186       |
| 123 | Diverse Roles and Interactions of the SWI/SNF Chromatin Remodeling Complex Revealed Using Global Approaches. PLoS Genetics, 2011, 7, e1002008.                | 3.5  | 185       |
| 124 | PROTEIN FOLDING:The Endgame. Annual Review of Biochemistry, 1997, 66, 549-579.  | 11.1 | 184       |
| 125 | Comparative analysis of regulatory information and circuits across distant species. Nature, 2014, 512, 453-456.   | 27.8 | 184       |
| 126 | Integrative Personal Omics Profiles during Periods of Weight Gain and Loss. Cell Systems, 2018, 6,<br>157-170.e8.   | 6.2  | 183       |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 127 | Assessing the limits of genomic data integration for predicting protein networks. Genome Research, 2005, 15, 945-953.   | 5.5  | 182       |
| 128 | Mapping of transcription factor binding regions in mammalian cells by ChIP: Comparison of array- and sequencing-based technologies. Genome Research, 2007, 17, 898-909.   | 5.5  | 181       |
| 129 | Identification and Analysis of Over 2000 Ribosomal Protein Pseudogenes in the Human Genome.<br>Genome Research, 2002, 12, 1466-1482.  | 5.5  | 179       |
| 130 | Discovery of non-ETS gene fusions in human prostate cancer using next-generation RNA sequencing.<br>Genome Research, 2011, 21, 56-67.   | 5.5  | 179       |
| 131 | Tracking Distinct RNA Populations Using Efficient and Reversible Covalent Chemistry. Molecular Cell, 2015, 59, 858-866.   | 9.7  | 179       |
| 132 | Quantifying environmental adaptation of metabolic pathways in metagenomics. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1374-1379.  | 7.1  | 177       |
| 133 | Transcribed processed pseudogenes in the human genome: an intermediate form of expressed retrosequence lacking protein-coding ability. Nucleic Acids Research, 2005, 33, 2374-2383.   | 14.5 | 175       |
| 134 | Studying Genomes Through the Aeons: Protein Families, Pseudogenes and Proteome Evolution. Journal of Molecular Biology, 2002, 318, 1155-1174.   | 4.2  | 174       |
| 135 | A question of size: the eukaryotic proteome and the problems in defining it. Nucleic Acids Research, 2002, 30, 1083-1090.   | 14.5 | 172       |
| 136 | Bayesian Modeling of the Yeast SH3 Domain Interactome Predicts Spatiotemporal Dynamics of Endocytosis Proteins. PLoS Biology, 2009, 7, e1000218.  | 5.6  | 172       |
| 137 | Beyond synexpression relationships: local clustering of time-shifted and inverted gene expression profiles identifies new, biologically relevant interactions. Journal of Molecular Biology, 2001, 314, 1053-1066.                            | 4.2  | 171       |
| 138 | Diverse human extracellular RNAs are widely detected in human plasma. Nature Communications, 2016,<br>7, 11106.   | 12.8 | 170       |
| 139 | PseudoPipe: an automated pseudogene identification pipeline. Bioinformatics, 2006, 22, 1437-1439.   | 4.1  | 169       |
| 140 | Sixteen diverse laboratory mouse reference genomes define strain-specific haplotypes and novel functional loci. Nature Genetics, 2018, 50, 1574-1583.   | 21.4 | 169       |
| 141 | Dynamic transcriptomes during neural differentiation of human embryonic stem cells revealed by short, long, and paired-end sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5254-5259. | 7.1  | 168       |
| 142 | Molecular Fossils in the Human Genome: Identification and Analysis of the Pseudogenes in Chromosomes 21 and 22. Genome Research, 2002, 12, 272-280.   | 5.5  | 167       |
| 143 | MolMovDB: analysis and visualization of conformational change and structural flexibility. Nucleic Acids Research, 2003, 31, 478-482.  | 14.5 | 167       |
| 144 | Analyzing protein function on a genomic scale: the importance of gold-standard positives and negatives for network prediction. Current Opinion in Microbiology, 2004, 7, 535-545.   | 5.1  | 167       |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 145 | Close association of RNA polymerase II and many transcription factors with Pol III genes. Proceedings of the United States of America, 2010, 107, 3639-3644.                                 | 7.1  | 167       |
| 146 | Understanding transcriptional regulation by integrative analysis of transcription factor binding data. Genome Research, 2012, 22, 1658-1667.   | 5.5  | 166       |
| 147 | Genome-Wide Identification of Binding Sites Defines Distinct Functions for Caenorhabditis elegans<br>PHA-4/FOXA in Development and Environmental Response. PLoS Genetics, 2010, 6, e1000848. | 3.5  | 165       |
| 148 | The ModERN Resource: Genome-Wide Binding Profiles for Hundreds<br>of <i>Drosophila</i> and <i>Caenorhabditis elegans</i> Transcription Factors. Genetics, 2018, 208,<br>937-949.             | 2.9  | 164       |
| 149 | Analysis of protein loop closure. Journal of Molecular Biology, 1991, 220, 133-149.  | 4.2  | 163       |
| 150 | Interpretation of Genomic Variants Using a Unified Biological Network Approach. PLoS Computational Biology, 2013, 9, e1002886.   | 3.2  | 162       |
| 151 | Insights into genetics, human biology and disease gleaned from family based genomic studies. Genetics<br>in Medicine, 2019, 21, 798-812.   | 2.4  | 161       |
| 152 | Domain Closure in Lactoferrin. Journal of Molecular Biology, 1993, 234, 357-372.   | 4.2  | 160       |
| 153 | Volume changes in protein evolution. Journal of Molecular Biology, 1994, 236, 1067-1078.   | 4.2  | 160       |
| 154 | CREB Binds to Multiple Loci on Human Chromosome 22. Molecular and Cellular Biology, 2004, 24, 3804-3814.   | 2.3  | 160       |
| 155 | Nucleotide-resolution analysis of structural variants using BreakSeq and a breakpoint library. Nature<br>Biotechnology, 2010, 28, 47-55.   | 17.5 | 158       |
| 156 | Pseudogene.org: a comprehensive database and comparison platform for pseudogene annotation.<br>Nucleic Acids Research, 2007, 35, D55-D60.  | 14.5 | 156       |
| 157 | Interrelating Different Types of Genomic Data, from Proteome to Secretome: 'Oming in on Function.<br>Genome Research, 2001, 11, 1463-1468.   | 5.5  | 155       |
| 158 | Multi-species microarrays reveal the effect of sequence divergence on gene expression profiles.<br>Genome Research, 2005, 15, 674-680.   | 5.5  | 155       |
| 159 | Dermal Adipocyte Lipolysis and Myofibroblast Conversion Are Required for Efficient Skin Repair. Cell<br>Stem Cell, 2020, 26, 880-895.e6.   | 11.1 | 154       |
| 160 | A structural census of genomes: comparing bacterial, eukaryotic, and archaeal genomes in terms of<br>protein structure. Journal of Molecular Biology, 1997, 274, 562-576.                    | 4.2  | 153       |
| 161 | Target hub proteins serve as master regulators of development in yeast. Genes and Development, 2006, 20, 435-448.  | 5.9  | 153       |
| 162 | The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and<br>Technologies for Extracellular RNA Research. Cell, 2019, 177, 231-242.                            | 28.9 | 152       |

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|-----|---|------|-----------|
| 163 | Major Molecular Differences between Mammalian Sexes Are Involved in Drug Metabolism and Renal<br>Function. Developmental Cell, 2004, 6, 791-800.  | 7.0  | 151       |
| 164 | Structured RNAs in the ENCODE selected regions of the human genome. Genome Research, 2007, 17, 852-864.   | 5.5  | 150       |
| 165 | Identification and analysis of unitary pseudogenes: historic and contemporary gene losses in humans and other primates. Genome Biology, 2010, 11, R26.  | 9.6  | 150       |
| 166 | Epigenetic Repression of miR-31 Disrupts Androgen Receptor Homeostasis and Contributes to Prostate<br>Cancer Progression. Cancer Research, 2013, 73, 1232-1244.   | 0.9  | 150       |
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