

Stefan Bekiranov

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

9,811
citations

101543
36
h-index

66911
78
g-index

81
all docs

81
docs citations

81
times ranked

14209
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic Maps and Comparative Analysis of Histone Modifications in Human and Mouse. <i>Cell</i> , 2005, 120, 169-181.	28.9	1,348
2	Genome-wide analysis of estrogen receptor binding sites. <i>Nature Genetics</i> , 2006, 38, 1289-1297.	21.4	1,227
3	Transcriptional Maps of 10 Human Chromosomes at 5-Nucleotide Resolution. <i>Science</i> , 2005, 308, 1149-1154.	12.6	1,073
4	Unbiased Mapping of Transcription Factor Binding Sites along Human Chromosomes 21 and 22 Points to Widespread Regulation of Noncoding RNAs. <i>Cell</i> , 2004, 116, 499-509.	28.9	1,047
5	Large-Scale Transcriptional Activity in Chromosomes 21 and 22. <i>Science</i> , 2002, 296, 916-919.	12.6	793
6	Novel RNAs Identified From an In-Depth Analysis of the Transcriptome of Human Chromosomes 21 and 22. <i>Genome Research</i> , 2004, 14, 331-342.	5.5	460
7	Reprogramming of the Macrophage Transcriptome in Response to Interferon- β and <i>Mycobacterium tuberculosis</i> . <i>Journal of Experimental Medicine</i> , 2001, 194, 1123-1140.	8.5	437
8	Stem Cell Pluripotency Genes Klf4 and Oct4 Regulate Complex SMC Phenotypic Changes Critical in Late-Stage Atherosclerotic Lesion Pathogenesis. <i>Circulation</i> , 2020, 142, 2045-2059.	1.6	221
9	Intersection of diverse neuronal genomes and neuropsychiatric disease: The Brain Somatic Mosaicism Network. <i>Science</i> , 2017, 356, .	12.6	206
10	A Microarray-Based Genetic Screen for Yeast Chronological Aging Factors. <i>PLoS Genetics</i> , 2010, 6, e1000921.	3.5	198
11	Human Adipose-Derived Stromal Cells Accelerate Diabetic Wound Healing: Impact of Cell Formulation and Delivery. <i>Tissue Engineering - Part A</i> , 2010, 16, 1595-1606.	3.1	176
12	Activation of the pluripotency factor OCT4 in smooth muscle cells is atheroprotective. <i>Nature Medicine</i> , 2016, 22, 657-665.	30.7	165
13	Solution behavior of polyethylene oxide in water as a function of temperature and pressure. <i>Physical Review E</i> , 1997, 55, 577-585.	2.1	150
14	Diffusion in Inhomogeneous Media: Theory and Simulations Applied to Whole Cell Photobleach Recovery. <i>Biophysical Journal</i> , 2000, 79, 1761-1770.	0.5	121
15	Probe selection for high-density oligonucleotide arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11237-11242.	7.1	117
16	Temporal profile of replication of human chromosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6419-6424.	7.1	105
17	NF- κ B Regulates Mesenchymal Transition for the Induction of Non-Small Cell Lung Cancer Initiating Cells. <i>PLoS ONE</i> , 2013, 8, e68597.	2.5	95
18	Tolerogenic Properties of Lymphatic Endothelial Cells Are Controlled by the Lymph Node Microenvironment. <i>PLoS ONE</i> , 2014, 9, e87740.	2.5	95

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19	Bubble-seq analysis of the human genome reveals distinct chromatin-mediated mechanisms for regulating early- and late-firing origins. <i>Genome Research</i> , 2013, 23, 1774-1788.	5.5	86
20	Measuring Chromatin Interaction Dynamics on the Second Time Scale at Single-Copy Genes. <i>Science</i> , 2013, 342, 369-372.	12.6	83
21	Bubble-chip analysis of human origin distributions demonstrates on a genomic scale significant clustering into zones and significant association with transcription. <i>Genome Research</i> , 2011, 21, 377-389.	5.5	78
22	Microenvironmental agonists generate de novo phenotypic resistance to combined ibrutinib plus venetoclax in CLL and MCL. <i>Blood Advances</i> , 2017, 1, 933-946.	5.2	75
23	Making the most of microarray data. <i>Nature Genetics</i> , 2000, 24, 204-206.	21.4	74
24	Application of machine learning methods to histone methylation ChIP-Seq data reveals H4R3me2 globally represses gene expression. <i>BMC Bioinformatics</i> , 2010, 11, 396.	2.6	74
25	Activin Upregulation by NF- κ B Is Required to Maintain Mesenchymal Features of Cancer Stemâ€‘like Cells in Nonâ€‘Small Cell Lung Cancer. <i>Cancer Research</i> , 2015, 75, 426-435.	0.9	73
26	Microarray-Based Analysis of Early Development in <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 2001, 236, 64-75.	2.0	70
27	Thiamine Biosynthesis in <i>Saccharomyces cerevisiae</i> Is Regulated by the NAD ⁺ -Dependent Histone Deacetylase Hst1. <i>Molecular and Cellular Biology</i> , 2010, 30, 3329-3341.	2.3	64
28	Quantum computing at the frontiers of biological sciences. <i>Nature Methods</i> , 2021, 18, 701-709.	19.0	64
29	Compensatory Pathways Induced by MEK Inhibition Are Effective Drug Targets for Combination Therapy against Castration-Resistant Prostate Cancer. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 1581-1590.	4.1	63
30	Neurons with Complex Karyotypes Are Rare in Aged Human Neocortex. <i>Cell Reports</i> , 2019, 26, 825-835.e7.	6.4	60
31	Homology-based annotation yields 1,042 new candidate genes in the <i>Drosophila melanogaster</i> genome. <i>Nature Genetics</i> , 2001, 27, 337-340.	21.4	58
32	Genome-wide analysis of functional sirtuin chromatin targets in yeast. <i>Genome Biology</i> , 2013, 14, R48.	9.6	53
33	Sexual differentiation in the developing mouse brain: contributions of sex chromosome genes. <i>Genes, Brain and Behavior</i> , 2013, 12, 166-180.	2.2	48
34	Alternative DNA secondary structure formation affects RNA polymerase II promoter-proximal pausing in human. <i>Genome Biology</i> , 2018, 19, 89.	8.8	44
35	Reelin is a target of polyglutamine expanded ataxin-7 in human spinocerebellar ataxia type 7 (SCA7) astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21319-21324.	7.1	42
36	Epigenetic coordination of signaling pathways during the epithelial-mesenchymal transition. <i>Epigenetics and Chromatin</i> , 2013, 6, 28.	3.9	42

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37	The Modifier of Transcription 1 (Mot1) ATPase and Spt16 Histone Chaperone Co-regulate Transcription through Preinitiation Complex Assembly and Nucleosome Organization. <i>Journal of Biological Chemistry</i> , 2016, 291, 15307-15319.	3.4	33
38	NF- κ B upregulates glutamine-fructose-6-phosphate transaminase 2 to promote migration in non-small cell lung cancer. <i>Cell Communication and Signaling</i> , 2019, 17, 24.	6.5	33
39	A pan-cancer analysis of prognostic genes. <i>PeerJ</i> , 2015, 3, e1499.	2.0	32
40	Temporal and Spatial Epigenome Editing Allows Precise Gene Regulation in Mammalian Cells. <i>Journal of Molecular Biology</i> , 2019, 431, 111-121.	4.2	31
41	Use of Yeast Chemigenomics and COXEN Informatics in Preclinical Evaluation of Anticancer Agents. <i>Neoplasia</i> , 2011, 13, 72-IN19.	5.3	27
42	An evolutionarily “young” lysine residue in histone H3 attenuates transcriptional output in <i>Saccharomyces cerevisiae</i> . <i>Genes and Development</i> , 2011, 25, 1306-1319.	5.9	27
43	The Snf1 kinase and proteasome-associated Rad23 regulate UV-responsive gene expression. <i>EMBO Journal</i> , 2009, 28, 2919-2931.	7.8	24
44	Amyloid β Precursor Protein Regulates Male Sexual Behavior. <i>Journal of Neuroscience</i> , 2010, 30, 9967-9972.	3.6	23
45	Histone H3 lysine 4 methylation signature associated with human undernutrition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11264-E11273.	7.1	23
46	Pausing sites of RNA polymerase II on actively transcribed genes are enriched in DNA double-stranded breaks. <i>Journal of Biological Chemistry</i> , 2020, 295, 3990-4000.	3.4	21
47	High-content phenotypic assay for proliferation of human iPSC-derived cardiomyocytes identifies L-type calcium channels as targets. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 204-214.	1.9	20
48	Combinatorial drug screening and molecular profiling reveal diverse mechanisms of intrinsic and adaptive resistance to BRAF inhibition in V600E BRAF mutant melanomas. <i>Oncotarget</i> , 2016, 7, 2734-2753.	1.8	19
49	Fluctuations in Electrolytes: The Lebowitz and Other Correlation Lengths. <i>Physical Review Letters</i> , 1998, 81, 5836-5839.	7.8	18
50	Diverging correlation lengths in electrolytes: Exact results at low densities. <i>Physical Review E</i> , 1999, 59, 492-511.	2.1	18
51	Combinatorial epigenetic patterns as quantitative predictors of chromatin biology. <i>BMC Genomics</i> , 2014, 15, 76.	2.8	18
52	Implementation of a Hamming distance“like genomic quantum classifier using inner products on ibmqx2 and ibmq_16_melbourne. <i>Quantum Machine Intelligence</i> , 2020, 2, 1-26.	4.8	16
53	Genome-wide predictors of NF- κ B recruitment and transcriptional activity. <i>BioData Mining</i> , 2015, 8, 37.	4.0	14
54	HIV-1 Rev interacts with HERV-K RcREs present in the human genome and promotes export of unspliced HERV-K proviral RNA. <i>Retrovirology</i> , 2019, 16, 40.	2.0	14

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55	Transcriptomes of six mutants in the Sen1 pathway reveal combinatorial control of transcription termination across the <i>Saccharomyces cerevisiae</i> genome. <i>PLoS Genetics</i> , 2017, 13, e1006863.	3.5	14
56	Epigenetic methodologies for behavioral scientists. <i>Hormones and Behavior</i> , 2011, 59, 407-416.	2.1	13
57	Second-generation method for analysis of chromatin binding with formaldehydeâ€“cross-linking kinetics. <i>Journal of Biological Chemistry</i> , 2017, 292, 19338-19355.	3.4	13
58	Yeast genome analysis identifies chromosomal translocation, gene conversion events and several sites of Ty element insertion. <i>Nucleic Acids Research</i> , 2009, 37, 6454-6465.	14.5	12
59	RNA synthesis precision is regulated by preinitiation complex turnover. <i>Genome Research</i> , 2010, 20, 1679-1688.	5.5	12
60	Upregulation of human endogenous retrovirus-K (HML-2) mRNAs in hepatoblastoma: Identification of potential new immunotherapeutic targets and biomarkers. <i>Journal of Pediatric Surgery</i> , 2021, 56, 286-292.	1.6	12
61	Inhibition of DYRK1a Enhances Cardiomyocyte Cycling After Myocardial Infarction. <i>Circulation Research</i> , 2022, 130, 1345-1361.	4.5	12
62	Quantification of histone modification ChIP-seq enrichment for data mining and machine learning applications. <i>BMC Research Notes</i> , 2011, 4, 288.	1.4	10
63	The Network Architecture of the <i>Saccharomyces cerevisiae</i> Genome. <i>PLoS ONE</i> , 2013, 8, e81972.	2.5	10
64	A Machine Learning Model Utilizing a Novel SNP Shows Enhanced Prediction of Coronary Artery Disease Severity. <i>Genes</i> , 2020, 11, 1446.	2.4	10
65	Functional genomic analysis reveals overlapping and distinct features of chronologically long-lived yeast populations. <i>Aging</i> , 2015, 7, 177-194.	3.1	10
66	Analysis of chromatin binding dynamics using the crosslinking kinetics (CLK) method. <i>Methods</i> , 2014, 70, 97-107.	3.8	9
67	Systems Analysis of Adaptive Responses to MAP Kinase Pathway Blockade in BRAF Mutant Melanoma. <i>PLoS ONE</i> , 2015, 10, e0138210.	2.5	9
68	IGF1R and Src inhibition induce synergistic cytotoxicity in HNSCC through inhibition of FAK. <i>Scientific Reports</i> , 2021, 11, 10826.	3.3	9
69	Associations of immune cell homing gene signatures and infiltrates of lymphocyte subsets in human melanomas: discordance with CD163+ myeloid cell infiltrates. <i>Journal of Translational Medicine</i> , 2021, 19, 371.	4.4	9
70	Error-pooling-based statistical methods for identifying novel temporal replication profiles of human chromosomes observed by DNA tiling arrays. <i>Nucleic Acids Research</i> , 2007, 35, e69.	14.5	8
71	A Sir2-regulated locus control region in the recombination enhancer of <i>Saccharomyces cerevisiae</i> specifies chromosome III structure. <i>PLoS Genetics</i> , 2019, 15, e1008339.	3.5	8
72	RNA synthesis is associated with multiple TBP-chromatin binding events. <i>Scientific Reports</i> , 2017, 7, 39631.	3.3	7

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73	Genomic and evolutionary portraits of disease relapse in acute myeloid leukemia. <i>Leukemia</i> , 2021, 35, 2688-2692.	7.2	7
74	Systems analysis of barrier molecule and ARNT-related gene expression regulation in melanoma. <i>Oncotimmunology</i> , 2019, 8, e1665978.	4.6	6
75	Charge and density fluctuations in electrolytes: The Lebowitz and other correlation lengths. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 263, 466-476.	2.6	5
76	Antitumor effect of insulin-like growth factor-1 receptor inhibition in head and neck squamous cell carcinoma. <i>Laryngoscope</i> , 2020, 130, 1470-1478.	2.0	5
77	Human endogenous retrovirus-K mRNA expression and genomic alignment data in hepatoblastoma. <i>Data in Brief</i> , 2020, 31, 105895.	1.0	4
78	An Improved Method for Measuring Chromatin-binding Dynamics Using Time-dependent Formaldehyde Crosslinking. <i>Bio-protocol</i> , 2018, 8, .	0.4	1
79	Extrinsic Factors in the In Vivo Macroenvironment Generate Phenotypic Resistance to BTK/Bcl-2 Targeted Therapies in Chronic Lymphocytic Leukemia and Mantle Cell Lymphoma. <i>Blood</i> , 2016, 128, 754-754.	1.4	0
80	Elucidating Epigenetic Readers of H3T45ph in <i>S. cerevisiae</i> . <i>FASEB Journal</i> , 2018, 32, 524.14.	0.5	0