

Nick Gilbert

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,760
citations

304368

22
h-index

276539

41
g-index

60
all docs

60
docs citations

60
times ranked

6213
citing authors

#	ARTICLE	IF	CITATIONS
1	cGAS surveillance of micronuclei links genome instability to innate immunity. <i>Nature</i> , 2017, 548, 461-465.	13.7	1,158
2	Chromatin Architecture of the Human Genome. <i>Cell</i> , 2004, 118, 555-566.	13.5	452
3	Transcription forms and remodels supercoiling domains unfolding large-scale chromatin structures. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 387-395.	3.6	324
4	Nuclear FAK Controls Chemokine Transcription, Tregs, and Evasion of Anti-tumor Immunity. <i>Cell</i> , 2015, 163, 160-173.	13.5	304
5	SAF-A Regulates Interphase Chromosome Structure through Oligomerization with Chromatin-Associated RNAs. <i>Cell</i> , 2017, 169, 1214-1227.e18.	13.5	166
6	Polymer Simulations of Heteromorphic Chromatin Predict the 3D Folding of Complex Genomic Loci. <i>Molecular Cell</i> , 2018, 72, 786-797.e11.	4.5	131
7	Chromatin Organization in the Mammalian Nucleus. <i>International Review of Cytology</i> , 2004, 242, 283-336.	6.2	125
8	Centromere transcription allows CENP-A to transit from chromatin association to stable incorporation. <i>Journal of Cell Biology</i> , 2018, 217, 1957-1972.	2.3	104
9	Formation of facultative heterochromatin in the absence of HP1. <i>EMBO Journal</i> , 2003, 22, 5540-5550.	3.5	102
10	Supercoiling in DNA and chromatin. <i>Current Opinion in Genetics and Development</i> , 2014, 25, 15-21.	1.5	102
11	Analysis of Active and Inactive X Chromosome Architecture Reveals the Independent Organization of $\text{\AA}30\text{\AA}m$ and Large-Scale Chromatin Structures. <i>Molecular Cell</i> , 2010, 40, 397-409.	4.5	73
12	RNA: Nuclear Glue for Folding the Genome. <i>Trends in Cell Biology</i> , 2019, 29, 201-211.	3.6	63
13	Mechanistic modeling of chromatin folding to understand function. <i>Nature Methods</i> , 2020, 17, 767-775.	9.0	62
14	Negative supercoil at gene boundaries modulates gene topology. <i>Nature</i> , 2020, 577, 701-705.	13.7	53
15	Effects of DNA supercoiling on chromatin architecture. <i>Biophysical Reviews</i> , 2016, 8, 245-258.	1.5	52
16	Role of nuclear RNA in regulating chromatin structure and transcription. <i>Current Opinion in Cell Biology</i> , 2019, 58, 120-125.	2.6	47
17	Effects of DNA supercoiling on chromatin architecture. <i>Biophysical Reviews</i> , 2016, 8, 51-64.	1.5	42
18	Investigating DNA supercoiling in eukaryotic genomes. <i>Briefings in Functional Genomics</i> , 2017, 16, 379-389.	1.3	34

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19	KDM3A coordinates actin dynamics with intraflagellar transport to regulate cilia stability. <i>Journal of Cell Biology</i> , 2017, 216, 999-1013.	2.3	33
20	Common Fragile Sites Are Characterized by Faulty Condensin Loading after Replication Stress. <i>Cell Reports</i> , 2020, 32, 108177.	2.9	33
21	A sensitive and affordable multiplex RT-qPCR assay for SARS-CoV-2 detection. <i>PLoS Biology</i> , 2020, 18, e3001030.	2.6	32
22	Divergent RNA transcription. <i>Transcription</i> , 2013, 4, 162-166.	1.7	27
23	Regulation of transcriptional activators by DNA-binding domain ubiquitination. <i>Cell Death and Differentiation</i> , 2017, 24, 903-916.	5.0	27
24	Acute depletion of the ARID1A subunit of SWI/SNF complexes reveals distinct pathways for activation and repression of transcription. <i>Cell Reports</i> , 2021, 37, 109943.	2.9	23
25	The relationship between chromatin structure and transcriptional activity in mammalian genomes. <i>Briefings in Functional Genomics & Proteomics</i> , 2005, 4, 129-142.	3.8	22
26	Functional characteristics of novel pancreatic Pax6 regulatory elements. <i>Human Molecular Genetics</i> , 2018, 27, 3434-3448.	1.4	19
27	The role of SAF-A/hnRNP U in regulating chromatin structure. <i>Current Opinion in Genetics and Development</i> , 2022, 72, 38-44.	1.5	16
28	capC-MAP: software for analysis of Capture-C data. <i>Bioinformatics</i> , 2019, 35, 4773-4775.	1.8	15
29	Biophysical regulation of local chromatin structure. <i>Current Opinion in Genetics and Development</i> , 2019, 55, 66-75.	1.5	14
30	Parameter-free molecular super-structures quantification in single-molecule localization microscopy. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	14
31	Large-scale chromatin organisation in interphase, mitosis and meiosis. <i>Biochemical Journal</i> , 2019, 476, 2141-2156.	1.7	13
32	The RIF1-long splice variant promotes G1 phase 53BP1 nuclear bodies to protect against replication stress. <i>ELife</i> , 2020, 9, .	2.8	13
33	The relationship between higher-order chromatin structure and transcription. <i>Biochemical Society Symposia</i> , 2006, 73, 59-66.	2.7	11
34	Genome organization: experiments and modeling. <i>Chromosome Research</i> , 2017, 25, 1-4.	1.0	9
35	Predicting genome organisation and function with mechanistic modelling. <i>Trends in Genetics</i> , 2021, , .	2.9	9
36	SAF-A promotes origin licensing and replication fork progression to ensure robust DNA replication. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	9

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37	Interphase Chromatin LINEd with RNA. <i>Cell</i> , 2014, 156, 864-865.	13.5	5
38	Profiling DNA supercoiling domains in vivo. <i>Genomics Data</i> , 2014, 2, 264-267.	1.3	4
39	The many length scales of DNA packaging. <i>Essays in Biochemistry</i> , 2019, 63, 1-4.	2.1	3
40	Predictive Polymer Models for 3D Chromosome Organization. <i>Methods in Molecular Biology</i> , 2022, 2301, 267-291.	0.4	1
41	User acceptability of saliva and gargle samples for identifying COVID-19 positive high-risk workers and household contacts. <i>Diagnostic Microbiology and Infectious Disease</i> , 2022, , 115732.	0.8	1