Zhiguo Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

77 papers	5,661 citations	109321 35 h-index	82547 72 g-index
81 all docs	81 docs citations	81 times ranked	7605 citing authors

#	Article	IF	Citations
1	The histone H3.3K27M mutation in pediatric glioma reprograms H3K27 methylation and gene expression. Genes and Development, 2013, 27, 985-990.	5.9	570
2	Pharmacologic inhibition of histone demethylation as a therapy for pediatric brainstem glioma. Nature Medicine, 2014, 20, 1394-1396.	30.7	411
3	Acetylation of Histone H3 Lysine 56 Regulates Replication-Coupled Nucleosome Assembly. Cell, 2008, 134, 244-255.	28.9	406
4	Rtt109 Acetylates Histone H3 Lysine 56 and Functions in DNA Replication. Science, 2007, 315, 653-655.	12.6	376
5	Histone chaperones in nucleosome assembly and human disease. Nature Structural and Molecular Biology, 2013, 20, 14-22.	8.2	323
6	PCNA connects DNA replication to epigenetic inheritance in yeast. Nature, 2000, 408, 221-225.	27.8	273
7	The histone H3.3K36M mutation reprograms the epigenome of chondroblastomas. Science, 2016, 352, 1344-1348.	12.6	211
8	A novel enhancer regulates MGMT expression and promotes temozolomide resistance in glioblastoma. Nature Communications, 2018, 9, 2949.	12.8	183
9	A mechanism for preventing asymmetric histone segregation onto replicating DNA strands. Science, 2018, 361, 1386-1389.	12.6	179
10	Acetylation of Lysine 56 of Histone H3 Catalyzed by RTT109 and Regulated by ASF1 Is Required for Replisome Integrity. Journal of Biological Chemistry, 2007, 282, 28587-28596.	3.4	157
11	Strand-Specific Analysis Shows Protein Binding at Replication Forks and PCNA Unloading from Lagging Strands when Forks Stall. Molecular Cell, 2014, 56, 551-563.	9.7	153
12	A Role for Gcn5 in Replication-Coupled Nucleosome Assembly. Molecular Cell, 2010, 37, 469-480.	9.7	148
13	The Mcm2-Ctf4-PolÎ± Axis Facilitates Parental Histone H3-H4 Transfer to Lagging Strands. Molecular Cell, 2018, 72, 140-151.e3.	9.7	129
14	A Cul4 E3ÂUbiquitin Ligase Regulates Histone Hand-Off during Nucleosome Assembly. Cell, 2013, 155, 817-829.	28.9	116
15	BET Inhibitors Suppress ALDH Activity by Targeting ALDH1A1 Super-Enhancer in Ovarian Cancer. Cancer Research, 2016, 76, 6320-6330.	0.9	115
16	Structure of the variant histone H3.3â€“H4 heterodimer in complex with its chaperone DAXX. Nature Structural and Molecular Biology, 2012, 19, 1287-1292.	8.2	104
17	Structural basis for recognition of H3K56-acetylated histone H3â€“H4 by the chaperone Rtt106. Nature, 2012, 483, 104-107.	27.8	99
18	Structure and function of the BAH-containing domain of Orc1p in epigenetic silencing. EMBO Journal, 2002, 21, 4600-4611.	7.8	87

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19	Replication-Coupled Nucleosome Assembly in the Passage of Epigenetic Information and Cell Identity. Trends in Biochemical Sciences, 2018, 43, 136-148.	7.5	84
20	RPA Interacts with HIRA and Regulates H3.3 Deposition at Gene Regulatory Elements in Mammalian Cells. Molecular Cell, 2017, 65, 272-284.	9.7	83
21	FACT Remodels the Tetranucleosomal Unit of Chromatin Fibers for Gene Transcription. Molecular Cell, 2016, 64, 120-133.	9.7	74
22	USP51 deubiquitylates H2AK13,15ub and regulates DNA damage response. Genes and Development, 2016, 30, 946-959.	5.9	72
23	H3.3K27M mutant proteins reprogram epigenome by sequestering the PRC2 complex to poised enhancers. ELife, 2018, 7, .	6.0	72
24	Chromatin Assembly Factor 1 Interacts with Histone H3 Methylated at Lysine 79 in the Processes of Epigenetic Silencing and DNA Repairâ€. Biochemistry, 2006, 45, 2852-2861.	2.5	64
25	Live-cell single-molecule dynamics of PcG proteins imposed by the DIPG H3.3K27M mutation. Nature Communications, 2018, 9, 2080.	12.8	63
26	DNA polymerase Î± interacts with H3-H4 and facilitates the transfer of parental histones to lagging strands. Science Advances, 2020, 6, eabb5820.	10.3	62
27	Retinoblastoma Binding Protein 4 Modulates Temozolomide Sensitivity in Glioblastoma by Regulating DNA Repair Proteins. Cell Reports, 2016, 14, 2587-2598.	6.4	58
28	Ubiquitylation of FACT by the Cullin-E3 ligase Rtt101 connects FACT to DNA replication. Genes and Development, 2010, 24, 1485-1490.	5.9	55
29	H3K9me3 demethylase Kdm4d facilitates the formation of pre-initiative complex and regulates DNA replication. Nucleic Acids Research, 2017, 45, 169-180.	14.5	53
30	Phosphorylation of H4 Ser 47 promotes HIRA-mediated nucleosome assembly. Genes and Development, 2011, 25, 1359-1364.	5.9	52
31	A lesson learned from the H3.3K27M mutation found in pediatric glioma. Cell Cycle, 2013, 12, 2546-2552.	2.6	50
32	Checkpoint Kinase Rad53 Couples Leading- and Lagging-Strand DNA Synthesis under Replication Stress. Molecular Cell, 2017, 68, 446-455.e3.	9.7	49
33	Diverse factors are involved in maintaining X chromosome inactivation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16699-16704.	7.1	44
34	Multisite Substrate Recognition in Asf1-Dependent Acetylation of Histone H3 K56 by Rtt109. Cell, 2018, 174, 818-830.e11.	28.9	44
35	Focused Ultrasound-Mediated Blood-Brain Barrier Opening Increases Delivery and Efficacy of Etoposide for Glioblastoma Treatment. International Journal of Radiation Oncology Biology Physics, 2021, 110, 539-550.	0.8	44
36	A DNA binding winged helix domain in CAF-1 functions with PCNA to stabilize CAF-1 at replication forks. Nucleic Acids Research, 2016, 44, 5083-5094.	14.5	42

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37	Noncoding Transcription Is a Driving Force for Nucleosome Instability in spt16 Mutant Cells. Molecular and Cellular Biology, 2016, 36, 1856-1867.	2.3	39
38	Leucine-rich Repeat and WD Repeat-containing Protein 1 Is Recruited to Pericentric Heterochromatin by Trimethylated Lysine 9 of Histone H3 and Maintains Heterochromatin Silencing. Journal of Biological Chemistry, 2012, 287, 15024-15033.	3.4	38
39	Chromatin Assembly Factor 1 (CAF-1) facilitates the establishment of facultative heterochromatin during pluripotency exit. Nucleic Acids Research, 2019, 47, 11114-11131.	14.5	35
40	Structure and Histone Binding Properties of the Vps75-Rtt109 Chaperone-Lysine Acetyltransferase Complex. Journal of Biological Chemistry, 2011, 286, 15625-15629.	3.4	34
41	Purification of nanogram-range immunoprecipitated DNA in ChIP-seq application. BMC Genomics, 2017, 18, 985.	2.8	34
42	Histones, histone chaperones and nucleosome assembly. Protein and Cell, 2010, 1, 607-612.	11.0	33
43	Acute Depletion Redefines the Division of Labor among DNA Methyltransferases in Methylating the Human Genome. Cell Reports, 2014, 9, 1554-1566.	6.4	33
44	Pak2 kinase promotes cellular senescence and organismal aging. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13311-13319.	7.1	30
45	O-linked N -acetylglucosamine transferase (OGT) interacts with the histone chaperone HIRA complex and regulates nucleosome assembly and cellular senescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3213-20.	7.1	26
46	Asf1a resolves bivalent chromatin domains for the induction of lineage-specific genes during mouse embryonic stem cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6162-E6171.	7.1	26
47	The progeroid gene BubR1 regulates axon myelination and motor function. Aging, 2016, 8, 2667-2688.	3.1	23
48	Linking DNA replication to heterochromatin silencing and epigenetic inheritance. Acta Biochimica Et Biophysica Sinica, 2012, 44, 3-13.	2.0	19
49	Enhanced and controlled chromatin extraction from FFPE tissues and the application to ChIP-seq. BMC Genomics, 2019, 20, 249.	2.8	16
50	Mechanisms of chromatin-based epigenetic inheritance. Science China Life Sciences, 2022, 65, 2162-2190.	4.9	16
51	Post-HTS case report and structural alert: Promiscuous 4-aroyl-1,5-disubstituted-3-hydroxy-2 H -pyrrol-2-one actives verified by ALARM NMR. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4740-4752.	2.2	15
52	Spt5 histone binding activity preserves chromatin during transcription by RNA polymerase II. EMBO Journal, 2022, 41, e109783.	7.8	14
53	H3K4me3 recognition by the COMPASS complex facilitates the restoration of this histone mark following DNA replication. Science Advances, 2022, 8, eabm6246.	10.3	14
54	Oncohistone Mutations in Diffuse Intrinsic Pontine Glioma. Trends in Cancer, 2019, 5, 799-808.	7.4	13

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55	Pneumocystis jirovecii Rtt109, a Novel Drug Target for Pneumocystis Pneumonia in Immunosuppressed Humans. Antimicrobial Agents and Chemotherapy, 2014, 58, 3650-3659.	3.2	11
56	Stable inheritance of H3.3-containing nucleosomes during mitotic cell divisions. Nature Communications, 2022, 13, 2514.	12.8	11
57	Detecting the H3F3A mutant allele found in high-grade pediatric glioma by real-time PCR. Journal of Neuro-Oncology, 2016, 126, 27-36.	2.9	10
58	A mechanism for Rad53 to couple leading- and lagging-strand DNA synthesis under replication stress in budding yeast. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
59	Efficient and strand-specific profiling of replicating chromatin with enrichment and sequencing of protein-associated nascent DNA in mammalian cells. Nature Protocols, 2021, 16, 2698-2721.	12.0	8
60	The histone H3K9M mutation synergizes with H3K14 ubiquitylation to selectively sequester histone H3K9 methyltransferase Clr4 at heterochromatin. Cell Reports, 2021, 35, 109137.	6.4	8
61	Probe the function of histone lysine 36 methylation using histone H3 lysine 36 to methionine mutant transgene in mammalian cells. Cell Cycle, 2017, 16, 1781-1789.	2.6	7
62	Both DNA Polymerases Î´ and Îµ Contact Active and Stalled Replication Forks Differently. Molecular and Cellular Biology, 2017, 37, .	2.3	6
63	An unexpected role for Dicer as a reader of the unacetylated DNA binding domain of p53 in transcriptional regulation. Science Advances, 2021, 7, eabi6684.	10.3	5
64	The Ddc1-Mec3-Rad17 Sliding Clamp Regulates Histone-Histone Chaperone Interactions and DNA Replication-coupled Nucleosome Assembly in Budding Yeast. Journal of Biological Chemistry, 2014, 289, 10518-10529.	3.4	3
65	Yeast CAF-1 assembles histone (H3-H4) 2 tetramers prior to DNA deposition. Nucleic Acids Research, 2017, 45, 9811-9812.	14.5	3
66	Strand-Specific Analysis of DNA Synthesis and Proteins Association with DNA Replication Forks in Budding Yeast. Methods in Molecular Biology, 2018, 1672, 227-238.	0.9	3
67	CHAF1B Overexpression: A Brake for the Differentiation of Leukemia Cells. Cancer Cell, 2018, 34, 693-694.	16.8	2
68	Probing the Function of Oncohistones Using Mutant Transgenes and Knock-In Mutations. Methods in Molecular Biology, 2018, 1832, 339-356.	0.9	2
69	All roads lead to chromatin: multiple pathways for histone deposition. Biochimica Et Biophysica Acta, 2013, 1819, 238-46.	1.3	2
70	Lrwd1 impacts cell proliferation and the silencing of repetitive <scp>DNA</scp> elements. Genesis, 2022, , e23475.	1.6	2
71	Rad53 arrests leading and lagging strand DNA synthesis via distinct mechanisms in response to DNA replication stress. BioEssays, 0, , 2200061.	2.5	2
72	EPCT-23 PRE-CLINICAL STUDY OF FOCUSED ULTRASOUND-MEDIATED BLOOD-BRAIN BARRIER OPENING AND PANOBINOSTAT FOR DIFFUSE INTRINSIC PONTINE GLIOMA TREATMENT. Neuro-Oncology, 2021, 23, i52-i52.	1.2	1

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73	91â€…Impact of ultra-fast â€˜FLASHâ€™ radiotherapy on single cell immunogenomics in diffuse intrinsic pontine glioma (DIPG). , 2021, 9, A100-A100.		1
74	GENE-20. A NOVEL K-M ENHANCER REGULATES TEMOZOLOMIDE RESISTANCE AND TUMOR GROWTH IN GLIOBLASTOMA. Neuro-Oncology, 2018, 20, vi107-vi107.	1.2	0
75	DIPG-45. Radiation induces a robust interferon response in Diffuse Midline Glioma (DMG), improving the potential for combination immunotherapy. Neuro-Oncology, 2022, 24, i28-i29.	1.2	0
76	MODL-24. Focused ultrasound-mediated blood-brain barrier opening and panobinostat in a thalamic syngeneic murine DMG model is feasible and safe.. Neuro-Oncology, 2022, 24, i174-i174.	1.2	0
77	MODL-25. Radiation and focused ultrasoundâ€“mediated bloodâ€“brain barrier opening for DMG: safety and feasibility of combinatorial therapy. Neuro-Oncology, 2022, 24, i174-i174.	1.2	0