

# Zhiguo Zhang

## List of Publications by Year in descending order

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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	Spt5 histone binding activity preserves chromatin during transcription by RNA polymerase II. EMBO Journal, 2022, 41, e109783.	7.8	14
2	Lrwd1 impacts cell proliferation and the silencing of repetitive <scp>DNA</scp> elements. Genesis, 2022, , e23475.	1.6	2
3	Stable inheritance of H3.3-containing nucleosomes during mitotic cell divisions. Nature Communications, 2022, 13, 2514.	12.8	11
4	H3K4me3 recognition by the COMPASS complex facilitates the restoration of this histone mark following DNA replication. Science Advances, 2022, 8, eabm6246.	10.3	14
5	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
6	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
7	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
8	Mechanisms of chromatin-based epigenetic inheritance. Science China Life Sciences, 2022, 65, 2162-2190.	4.9	16
9	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
10	The histone H3K9M mutation synergizes with H3K14 ubiquitylation to selectively sequester histone H3K9 methyltransferase Ctr4 at heterochromatin. Cell Reports, 2021, 35, 109137.	6.4	8
11	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
12	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
13	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
14	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
15	91â€‘...Impact of ultra-fast â€‘FLASHâ€‘™ radiotherapy on single cell immunogenomics in diffuse intrinsic pontine glioma (DIPG). , 2021, 9, A100-A100.		1
16	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
17	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
18	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

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19	Enhanced and controlled chromatin extraction from FFPE tissues and the application to ChIP-seq. <i>BMC Genomics</i> , 2019, 20, 249.	2.8	16
20	Oncohistone Mutations in Diffuse Intrinsic Pontine Glioma. <i>Trends in Cancer</i> , 2019, 5, 799-808.	7.4	13
21	Replication-Coupled Nucleosome Assembly in the Passage of Epigenetic Information and Cell Identity. <i>Trends in Biochemical Sciences</i> , 2018, 43, 136-148.	7.5	84
22	Strand-Specific Analysis of DNA Synthesis and Proteins Association with DNA Replication Forks in Budding Yeast. <i>Methods in Molecular Biology</i> , 2018, 1672, 227-238.	0.9	3
23	GENE-20. A NOVEL K-M ENHANCER REGULATES TEMOZOLOMIDE RESISTANCE AND TUMOR GROWTH IN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2018, 20, vi107-vi107.	1.2	0
24	CHAF1B Overexpression: A Brake for the Differentiation of Leukemia Cells. <i>Cancer Cell</i> , 2018, 34, 693-694.	16.8	2
25	The Mcm2-Ctf4-Pol $\delta$ Axis Facilitates Parental Histone H3-H4 Transfer to Lagging Strands. <i>Molecular Cell</i> , 2018, 72, 140-151.e3.	9.7	129
26	Live-cell single-molecule dynamics of PcG proteins imposed by the DIPG H3.3K27M mutation. <i>Nature Communications</i> , 2018, 9, 2080.	12.8	63
27	Probing the Function of Oncohistones Using Mutant Transgenes and Knock-In Mutations. <i>Methods in Molecular Biology</i> , 2018, 1832, 339-356.	0.9	2
28	A novel enhancer regulates MGMT expression and promotes temozolomide resistance in glioblastoma. <i>Nature Communications</i> , 2018, 9, 2949.	12.8	183
29	Multisite Substrate Recognition in Asf1-Dependent Acetylation of Histone H3 K56 by Rtt109. <i>Cell</i> , 2018, 174, 818-830.e11.	28.9	44
30	H3.3K27M mutant proteins reprogram epigenome by sequestering the PRC2 complex to poised enhancers. <i>ELife</i> , 2018, 7, .	6.0	72
31	A mechanism for preventing asymmetric histone segregation onto replicating DNA strands. <i>Science</i> , 2018, 361, 1386-1389.	12.6	179
32	Asf1a resolves bivalent chromatin domains for the induction of lineage-specific genes during mouse embryonic stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6162-E6171.	7.1	26
33	RPA Interacts with HIRA and Regulates H3.3 Deposition at Gene Regulatory Elements in Mammalian Cells. <i>Molecular Cell</i> , 2017, 65, 272-284.	9.7	83
34	Probe the function of histone lysine 36 methylation using histone H3 lysine 36 to methionine mutant transgene in mammalian cells. <i>Cell Cycle</i> , 2017, 16, 1781-1789.	2.6	7
35	Checkpoint Kinase Rad53 Couples Leading- and Lagging-Strand DNA Synthesis under Replication Stress. <i>Molecular Cell</i> , 2017, 68, 446-455.e3.	9.7	49
36	Both DNA Polymerases $\delta$ and $\epsilon$ Contact Active and Stalled Replication Forks Differently. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	6

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37	H3K9me3 demethylase Kdm4d facilitates the formation of pre-initiative complex and regulates DNA replication. <i>Nucleic Acids Research</i> , 2017, 45, 169-180.	14.5	53
38	Purification of nanogram-range immunoprecipitated DNA in ChIP-seq application. <i>BMC Genomics</i> , 2017, 18, 985.	2.8	34
39	Yeast CAF-1 assembles histone (H3-H4) 2 tetramers prior to DNA deposition. <i>Nucleic Acids Research</i> , 2017, 45, 9811-9812.	14.5	3
40	The histone H3.3K36M mutation reprograms the epigenome of chondroblastomas. <i>Science</i> , 2016, 352, 1344-1348.	12.6	211
41	O-linked <i>N</i> -acetylglucosamine transferase (OGT) interacts with the histone chaperone HIRA complex and regulates nucleosome assembly and cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3213-20.	7.1	26
42	A DNA binding winged helix domain in CAF-1 functions with PCNA to stabilize CAF-1 at replication forks. <i>Nucleic Acids Research</i> , 2016, 44, 5083-5094.	14.5	42
43	USP51 deubiquitylates H2AK13,15ub and regulates DNA damage response. <i>Genes and Development</i> , 2016, 30, 946-959.	5.9	72
44	Noncoding Transcription Is a Driving Force for Nucleosome Instability in <i>spt16</i> Mutant Cells. <i>Molecular and Cellular Biology</i> , 2016, 36, 1856-1867.	2.3	39
45	FACT Remodels the Tetranucleosomal Unit of Chromatin Fibers for Gene Transcription. <i>Molecular Cell</i> , 2016, 64, 120-133.	9.7	74
46	BET Inhibitors Suppress ALDH Activity by Targeting <i>ALDH1A1</i> Super-Enhancer in Ovarian Cancer. <i>Cancer Research</i> , 2016, 76, 6320-6330.	0.9	115
47	Retinoblastoma Binding Protein 4 Modulates Temozolomide Sensitivity in Glioblastoma by Regulating DNA Repair Proteins. <i>Cell Reports</i> , 2016, 14, 2587-2598.	6.4	58
48	Detecting the H3F3A mutant allele found in high-grade pediatric glioma by real-time PCR. <i>Journal of Neuro-Oncology</i> , 2016, 126, 27-36.	2.9	10
49	The progeroid gene <i>BubR1</i> regulates axon myelination and motor function. <i>Aging</i> , 2016, 8, 2667-2688.	3.1	23
50	Post-HTS case report and structural alert: Promiscuous 4- <i>aroyl</i> -1,5-disubstituted-3-hydroxy-2 <i>H</i> - <i>pyrrol</i> -2-one actives verified by ALARM NMR. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4740-4752.	2.2	15
51	The Ddc1-Mec3-Rad17 Sliding Clamp Regulates Histone-Histone Chaperone Interactions and DNA Replication-coupled Nucleosome Assembly in Budding Yeast. <i>Journal of Biological Chemistry</i> , 2014, 289, 10518-10529.	3.4	3
52	<i>Pneumocystis jirovecii</i> Rtt109, a Novel Drug Target for <i>Pneumocystis</i> Pneumonia in Immunosuppressed Humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3650-3659.	3.2	11
53	Acute Depletion Redefines the Division of Labor among DNA Methyltransferases in Methylating the Human Genome. <i>Cell Reports</i> , 2014, 9, 1554-1566.	6.4	33
54	Pharmacologic inhibition of histone demethylation as a therapy for pediatric brainstem glioma. <i>Nature Medicine</i> , 2014, 20, 1394-1396.	30.7	411

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55	Strand-Specific Analysis Shows Protein Binding at Replication Forks and PCNA Unloading from Lagging Strands when Forks Stall. <i>Molecular Cell</i> , 2014, 56, 551-563.	9.7	153
56	A Cul4 E3 Ubiquitin Ligase Regulates Histone Hand-Off during Nucleosome Assembly. <i>Cell</i> , 2013, 155, 817-829.	28.9	116
57	Histone chaperones in nucleosome assembly and human disease. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 14-22.	8.2	323
58	The histone H3.3K27M mutation in pediatric glioma reprograms H3K27 methylation and gene expression. <i>Genes and Development</i> , 2013, 27, 985-990.	5.9	570
59	A lesson learned from the H3.3K27M mutation found in pediatric glioma. <i>Cell Cycle</i> , 2013, 12, 2546-2552.	2.6	50
60	All roads lead to chromatin: multiple pathways for histone deposition. <i>Biochimica Et Biophysica Acta</i> , 2013, 1819, 238-46.	1.3	2
61	Structure of the variant histone H3.3-H4 heterodimer in complex with its chaperone DAXX. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 1287-1292.	8.2	104
62	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. <i>Journal of Biological Chemistry</i> , 2012, 287, 15024-15033.	3.4	38
63	Linking DNA replication to heterochromatin silencing and epigenetic inheritance. <i>Acta Biochimica Et Biophysica Sinica</i> , 2012, 44, 3-13.	2.0	19
64	Structural basis for recognition of H3K56-acetylated histone H3-H4 by the chaperone Rtt106. <i>Nature</i> , 2012, 483, 104-107.	27.8	99
65	Diverse factors are involved in maintaining X chromosome inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16699-16704.	7.1	44
66	Phosphorylation of H4 Ser 47 promotes HIRA-mediated nucleosome assembly. <i>Genes and Development</i> , 2011, 25, 1359-1364.	5.9	52
67	Structure and Histone Binding Properties of the Vps75-Rtt109 Chaperone-Lysine Acetyltransferase Complex. <i>Journal of Biological Chemistry</i> , 2011, 286, 15625-15629.	3.4	34
68	Histones, histone chaperones and nucleosome assembly. <i>Protein and Cell</i> , 2010, 1, 607-612.	11.0	33
69	Ubiquitylation of FACT by the Cullin-E3 ligase Rtt101 connects FACT to DNA replication. <i>Genes and Development</i> , 2010, 24, 1485-1490.	5.9	55
70	A Role for Gcn5 in Replication-Coupled Nucleosome Assembly. <i>Molecular Cell</i> , 2010, 37, 469-480.	9.7	148
71	Acetylation of Histone H3 Lysine 56 Regulates Replication-Coupled Nucleosome Assembly. <i>Cell</i> , 2008, 134, 244-255.	28.9	406
72	Acetylation of Lysine 56 of Histone H3 Catalyzed by RTT109 and Regulated by ASF1 Is Required for Replisome Integrity. <i>Journal of Biological Chemistry</i> , 2007, 282, 28587-28596.	3.4	157

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73	Rtt109 Acetylates Histone H3 Lysine 56 and Functions in DNA Replication. <i>Science</i> , 2007, 315, 653-655.	12.6	376
74	Chromatin Assembly Factor 1 Interacts with Histone H3 Methylated at Lysine 79 in the Processes of Epigenetic Silencing and DNA Repair. <i>Biochemistry</i> , 2006, 45, 2852-2861.	2.5	64
75	Structure and function of the BAH-containing domain of Orc1p in epigenetic silencing. <i>EMBO Journal</i> , 2002, 21, 4600-4611.	7.8	87
76	PCNA connects DNA replication to epigenetic inheritance in yeast. <i>Nature</i> , 2000, 408, 221-225.	27.8	273
77	Rad53 arrests leading and lagging strand DNA synthesis via distinct mechanisms in response to DNA replication stress. <i>BioEssays</i> , 0, , 2200061.	2.5	2