

Gang G Wang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

8,206
citations

71102

41
h-index

95266

68
g-index

72
all docs

72
docs citations

72
times ranked

11957
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent histone modifications “miswritten, misinterpreted and mis-erased” in human cancers. <i>Nature Reviews Cancer</i> , 2010, 10, 457-469.	28.4	982
2	Specificity in Toll-like receptor signalling through distinct effector functions of TRAF3 and TRAF6. <i>Nature</i> , 2006, 439, 204-207.	27.8	836
3	An Orally Bioavailable Chemical Probe of the Lysine Methyltransferases EZH2 and EZH1. <i>ACS Chemical Biology</i> , 2013, 8, 1324-1334.	3.4	399
4	NUP98 “NSD1 links H3K36 methylation to Hox-A gene activation and leukaemogenesis. <i>Nature Cell Biology</i> , 2007, 9, 804-812.	10.3	395
5	Haematopoietic malignancies caused by dysregulation of a chromatin-binding PHD finger. <i>Nature</i> , 2009, 459, 847-851.	27.8	392
6	Chromatin remodeling and cancer, part I: covalent histone modifications. <i>Trends in Molecular Medicine</i> , 2007, 13, 363-372.	6.7	369
7	Quantitative production of macrophages or neutrophils ex vivo using conditional Hoxb8. <i>Nature Methods</i> , 2006, 3, 287-293.	19.0	337
8	An H3K36 Methylation-Engaging Tudor Motif of Polycomb-like Proteins Mediates PRC2 Complex Targeting. <i>Molecular Cell</i> , 2013, 49, 571-582.	9.7	221
9	Structural basis for DNMT3A-mediated de novo DNA methylation. <i>Nature</i> , 2018, 554, 387-391.	27.8	215
10	Chromatin remodeling and cancer, part II: ATP-dependent chromatin remodeling. <i>Trends in Molecular Medicine</i> , 2007, 13, 373-380.	6.7	202
11	Phase separation drives aberrant chromatin looping and cancer development. <i>Nature</i> , 2021, 595, 591-595.	27.8	197
12	Selective inhibition of EZH2 and EZH1 enzymatic activity by a small molecule suppresses MLL-rearranged leukemia. <i>Blood</i> , 2015, 125, 346-357.	1.4	188
13	PHD fingers in human diseases: Disorders arising from misinterpreting epigenetic marks. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008, 647, 3-12.	1.0	187
14	Multiple Interactions Recruit MLL1 and MLL1 Fusion Proteins to the HOXA9 Locus in Leukemogenesis. <i>Molecular Cell</i> , 2010, 38, 853-863.	9.7	186
15	Bmi1 Is a Key Epigenetic Barrier to Direct Cardiac Reprogramming. <i>Cell Stem Cell</i> , 2016, 18, 382-395.	11.1	186
16	The language of chromatin modification in human cancers. <i>Nature Reviews Cancer</i> , 2021, 21, 413-430.	28.4	179
17	Pro Isomerization in MLL1 PHD3-Bromo Cassette Connects H3K4me Readout to Cyp33 and HDAC-Mediated Repression. <i>Cell</i> , 2010, 141, 1183-1194.	28.9	176
18	Tudor: a versatile family of histone methylation “readers”. <i>Trends in Biochemical Sciences</i> , 2013, 38, 546-555.	7.5	145

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19	Epigenetic Perturbations by Arg882-Mutated DNMT3A Potentiate Aberrant Stem Cell Gene-Expression Program and Acute Leukemia Development. <i>Cancer Cell</i> , 2016, 30, 92-107.	16.8	130
20	Lens epithelium-derived growth factor fusion proteins redirect HIV-1 DNA integration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3135-3140.	7.1	129
21	Meis1 programs transcription of FLT3 and cancer stem cell character, using a mechanism that requires interaction with Pbx and a novel function of the Meis1 C-terminus. <i>Blood</i> , 2005, 106, 254-264.	1.4	104
22	Targeting EZH2 and PRC2 dependence as novel anticancer therapy. <i>Experimental Hematology</i> , 2015, 43, 698-712.	0.4	101
23	Understanding histone H3 lysine 36 methylation and its deregulation in disease. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 2899-2916.	5.4	100
24	Comprehensive structure-function characterization of DNMT3B and DNMT3A reveals distinctive de novo DNA methylation mechanisms. <i>Nature Communications</i> , 2020, 11, 3355.	12.8	94
25	EZH2 noncanonically binds cMyc and p300 through a cryptic transactivation domain to mediate gene activation and promote oncogenesis. <i>Nature Cell Biology</i> , 2022, 24, 384-399.	10.3	88
26	Persistent Transactivation by Meis1 Replaces Hox Function in Myeloid Leukemogenesis Models: Evidence for Co-Occupancy of Meis1-Pbx and Hox-Pbx Complexes on Promoters of Leukemia-Associated Genes. <i>Molecular and Cellular Biology</i> , 2006, 26, 3902-3916.	2.3	86
27	R-loops: formation, function, and relevance to cell stress. <i>Cell Stress</i> , 2019, 3, 38-46.	3.2	81
28	An Allosteric Interaction Links USP7 to Deubiquitination and Chromatin Targeting of UHRF1. <i>Cell Reports</i> , 2015, 12, 1400-1406.	6.4	78
29	Structure and regulation of ZCCHC4 in m6A-methylation of 28S rRNA. <i>Nature Communications</i> , 2019, 10, 5042.	12.8	72
30	Polycomb Gene Silencing Mechanisms: PRC2 Chromatin Targeting, H3K27me3 'Readout', and Phase Separation-Based Compaction. <i>Trends in Genetics</i> , 2021, 37, 547-565.	6.7	71
31	A selective WDR5 degrader inhibits acute myeloid leukemia in patient-derived mouse models. <i>Science Translational Medicine</i> , 2021, 13, eabj1578.	12.4	67
32	NUP98- Φ PHF23 Is a Chromatin-Modifying Oncoprotein That Causes a Wide Array of Leukemias Sensitive to Inhibition of PHD Histone Reader Function. <i>Cancer Discovery</i> , 2014, 4, 564-577.	9.4	66
33	Harnessing the E3 Ligase KEAP1 for Targeted Protein Degradation. <i>Journal of the American Chemical Society</i> , 2021, 143, 15073-15083.	13.7	66
34	Allelic loss and gain, but not genomic instability, as the major somatic mutation in primary hepatocellular carcinoma. <i>Genes Chromosomes and Cancer</i> , 2001, 31, 221-227.	2.8	64
35	ZFX Mediates Non-canonical Oncogenic Functions of the Androgen Receptor Splice Variant 7 in Castrate-Resistant Prostate Cancer. <i>Molecular Cell</i> , 2018, 72, 341-354.e6.	9.7	64
36	DNMT1 reads heterochromatic H4K20me3 to reinforce LINE-1 DNA methylation. <i>Nature Communications</i> , 2021, 12, 2490.	12.8	63

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37	Direct readout of heterochromatic H3K9me3 regulates DNMT1-mediated maintenance DNA methylation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18439-18447.	7.1	62
38	Histone modifications change with age, dietary restriction and rapamycin treatment in mouse brain. Oncotarget, 2015, 6, 15882-15890.	1.8	61
39	PHF19 promotes multiple myeloma tumorigenicity through PRC2 activation and broad H3K27me3 domain formation. Blood, 2019, 134, 1176-1189.	1.4	57
40	BAHCC1 binds H3K27me3 via a conserved BAH module to mediate gene silencing and oncogenesis. Nature Genetics, 2020, 52, 1384-1396.	21.4	57
41	BCL2 Amplicon Loss and Transcriptional Remodeling Drives ABT-199 Resistance in B Cell Lymphoma Models. Cancer Cell, 2019, 35, 752-766.e9.	16.8	56
42	PBX3 and MEIS1 Cooperate in Hematopoietic Cells to Drive Acute Myeloid Leukemias Characterized by a Core Transcriptome of the <i>MLL</i> -Rearranged Disease. Cancer Research, 2016, 76, 619-629.	0.9	45
43	No Easy Way Out for EZH2: Its Pleiotropic, Noncanonical Effects on Gene Regulation and Cellular Function. International Journal of Molecular Sciences, 2020, 21, 9501.	4.1	45
44	Discovery and Characterization of a Cellular Potent Positive Allosteric Modulator of the Polycomb Repressive Complex 1 Chromodomain, CBX7. Cell Chemical Biology, 2019, 26, 1365-1379.e22.	5.2	38
45	Polycomb genes, miRNA, and their deregulation in B-cell malignancies. Blood, 2015, 125, 1217-1225.	1.4	37
46	E2A-PBX1 functions as a coactivator for RUNX1 in acute lymphoblastic leukemia. Blood, 2020, 136, 11-23.	1.4	33
47	Genetic aberration in primary hepatocellular carcinoma: correlation between p53 gene mutation and loss-of-hetero-zygosity on chromosome 16q21-q23 and 9p21-p23. Cell Research, 2000, 10, 311-323.	12.0	32
48	BPTF Is Essential for T Cell Homeostasis and Function. Journal of Immunology, 2016, 197, 4325-4333.	0.8	31
49	A NSD3-targeted PROTAC suppresses NSD3 and cMyc oncogenic nodes in cancer cells. Cell Chemical Biology, 2022, 29, 386-397.e9.	5.2	30
50	Sequence Requirements for Combinatorial Recognition of Histone H3 by the MRG15 and Pf1 Subunits of the Rpd3S/Sin3S Corepressor Complex. Journal of Molecular Biology, 2012, 422, 519-531.	4.2	28
51	ZMYND11-MBTD1 induces leukemogenesis through hijacking NuA4/TIP60 acetyltransferase complex and a PWWP-mediated chromatin association mechanism. Nature Communications, 2021, 12, 1045.	12.8	27
52	The Chromatin Remodeler BPTF Activates a Stemness Gene-Expression Program Essential for the Maintenance of Adult Hematopoietic Stem Cells. Stem Cell Reports, 2018, 10, 675-683.	4.8	26
53	Cistrome analysis of YY1 uncovers a regulatory axis of YY1:BRD2/4-PFKP during tumorigenesis of advanced prostate cancer. Nucleic Acids Research, 2021, 49, 4971-4988.	14.5	22
54	Pharmacologic Targeting of Chromatin Modulators As Therapeutics of Acute Myeloid Leukemia. Frontiers in Oncology, 2017, 7, 241.	2.8	21

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55	DNMT3A mutations define a unique biological and prognostic subgroup associated with cytotoxic T cells in PTCL-NOS. <i>Blood</i> , 2022, 140, 1278-1290.	1.4	20
56	Epigenetic Control of <i>Cdkn2a.Arf</i> Protects Tumor-Infiltrating Lymphocytes from Metabolic Exhaustion. <i>Cancer Research</i> , 2020, 80, 4707-4719.	0.9	19
57	A Model System for Studying the DNMT3A Hotspot Mutation (DNMT3AR882) Demonstrates a Causal Relationship between Its Dominant-Negative Effect and Leukemogenesis. <i>Cancer Research</i> , 2019, 79, 3583-3594.	0.9	18
58	Discovery of a dual WDR5 and Ikaros PROTAC degrader as an anti-cancer therapeutic. <i>Oncogene</i> , 2022, 41, 3328-3340.	5.9	18
59	Mechanistic insights into chromatin targeting by leukemic NUP98-PHF23 fusion. <i>Nature Communications</i> , 2020, 11, 3339.	12.8	15
60	A conserved BAH module within mammalian BAHD1 connects H3K27me3 to Polycomb gene silencing. <i>Nucleic Acids Research</i> , 2021, 49, 4441-4455.	14.5	15
61	R-loop and its functions at the regulatory interfaces between transcription and (epi)genome. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2021, 1864, 194750.	1.9	15
62	Reprogramming CBX8-PRC1 function with a positive allosteric modulator. <i>Cell Chemical Biology</i> , 2022, 29, 555-571.e11.	5.2	12
63	DOT1L activity in leukemia cells requires interaction with ubiquitylated H2B that promotes productive nucleosome binding. <i>Cell Reports</i> , 2022, 38, 110369.	6.4	11
64	A PRC2-Kdm5b axis sustains tumorigenicity of acute myeloid leukemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
65	Oncogenic fusion proteins and their role in three-dimensional chromatin structure, phase separation, and cancer. <i>Current Opinion in Genetics and Development</i> , 2022, 74, 101901.	3.3	11
66	"Misinterpretation" of a histone mark is linked to aberrant stem cells and cancer development. <i>Cell Cycle</i> , 2009, 8, 1982-3.	2.6	8
67	Interaction between androgen receptor and coregulator SLIRP is regulated by Ack1 tyrosine kinase and androgen. <i>Scientific Reports</i> , 2019, 9, 18637.	3.3	7
68	Survival signaling in HoxA9/Meis1 AML. <i>Blood</i> , 2007, 109, 3619-3620.	1.4	1
69	Cell type-specific chromatin topology and gene regulation. <i>Trends in Genetics</i> , 2022, 38, 413-415.	6.7	1
70	Gene enhancer deregulation and epigenetic vulnerability. <i>Oncoscience</i> , 2016, 3, 299-301.	2.2	0