Acetylation-regulated interaction between p53 and SET mode

Nature 538, 118-122

DOI: 10.1038/nature19759

Citation Report

#	Article	IF	CITATIONS
2	Rebalancing the global methane budget. Nature, 2016, 538, 46-48.	13.7	36
3	Reading protein acetylation. Nature Reviews Molecular Cell Biology, 2016, 17, 676-677.	16.1	5
4	Acidic shield puts a chink in p53's armour. Nature, 2016, 538, 45-46.	13.7	0
5	Regulation of p53 acetylation. Science China Life Sciences, 2017, 60, 321-323.	2.3	5
6	The "readers―of unacetylated p53 represent a new class of acidic domain proteins. Nucleus, 2017, 8, 360-369.	0.6	12
7	Genetically Encoded Photoaffinity Histone Marks. Journal of the American Chemical Society, 2017, 139, 6522-6525.	6.6	55
8	Reprogramming the oncogenic response: SET protein as a potential therapeutic target in cancer. Expert Opinion on Therapeutic Targets, 2017, 21, 685-694.	1.5	22
9	Induction of H3K9me3 and DNA methylation by tethered heterochromatin factors in <i>Neurospora crassa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9598-E9607.	3. 3	26
10	Alternative SET/TAFI Promoters Regulate Embryonic Stem Cell Differentiation. Stem Cell Reports, 2017, 9, 1291-1303.	2.3	19
11	PCAF/GCN5-Mediated Acetylation of RPA1 Promotes Nucleotide Excision Repair. Cell Reports, 2017, 20, 1997-2009.	2.9	60
12	Probing the interaction of the p53 C-terminal domain to the histone demethylase LSD1. Archives of Biochemistry and Biophysics, 2017, 632, 202-208.	1.4	7
13	Extreme disorder in an ultrahigh-affinity protein complex. Nature, 2018, 555, 61-66.	13.7	538
14	A Designed Peptide Targets Two Types of Modifications of p53 with Anti-cancer Activity. Cell Chemical Biology, 2018, 25, 761-774.e5.	2.5	17
15	Lysine Acetylation Goes Global: From Epigenetics to Metabolism and Therapeutics. Chemical Reviews, 2018, 118, 1216-1252.	23.0	236
16	Nuclear cytochrome <i>c</i> – a mitochondrial visitor regulating damaged chromatin dynamics. FEBS Letters, 2018, 592, 172-178.	1.3	26
17	Acetylation of 53BP1 dictates the DNA double strand break repair pathway. Nucleic Acids Research, 2018, 46, 689-703.	6.5	45
18	SIRT3 deacetylates and promotes degradation of P53 in PTEN-defective non-small cell lung cancer. Journal of Cancer Research and Clinical Oncology, 2018, 144, 189-198.	1.2	29
19	Sublytic C5b-9 Induces IL-23 and IL-36a Production by Glomerular Mesangial Cells via PCAF-Mediated KLF4 Acetylation in Rat Thy-1 Nephritis. Journal of Immunology, 2018, 201, 3184-3198.	0.4	12

#	Article	IF	Citations
20	Transposons, p53 and Genome Security. Trends in Genetics, 2018, 34, 846-855.	2.9	33
21	The Guardian of the Genome Revisited: p53 Downregulates Genes Required for Telomere Maintenance, DNA Repair, and Centromere Structure. Cancers, 2018, 10, 135.	1.7	93
22	Histone deacetylase function in CD4+ T cells. Nature Reviews Immunology, 2018, 18, 617-634.	10.6	106
23	A comprehensive and perspective view of oncoprotein <scp>SET</scp> in cancer. Cancer Medicine, 2018, 7, 3084-3094.	1.3	26
24	De Novo Mutations Activating Germline TP53 in an Inherited Bone-Marrow-Failure Syndrome. American Journal of Human Genetics, 2018, 103, 440-447.	2.6	33
25	SET de novo frameshift variants associated with developmental delay and intellectual disabilities. European Journal of Human Genetics, 2018, 26, 1306-1311.	1.4	6
26	p53 Activation by Cr(VI): A Transcriptionally Limited Response Induced by ATR Kinase in S-Phase. Toxicological Sciences, 2019, 172, 11-22.	1.4	6
27	p53 modifications: exquisite decorations of the powerful guardian. Journal of Molecular Cell Biology, 2019, 11, 564-577.	1.5	260
28	Acetylation regulates ribonucleotide reductase activity and cancer cell growth. Nature Communications, 2019, 10, 3213.	5.8	49
29	DAXX in cancer: phenomena, processes, mechanisms and regulation. Nucleic Acids Research, 2019, 47, 7734-7752.	6.5	80
30	New moonlighting functions of mitochondrial cytochromecin the cytoplasm and nucleus. FEBS Letters, 2019, 593, 3101-3119.	1.3	52
31	Distribution of SET/I2PP2A protein in gastrointestinal tissues. PLoS ONE, 2019, 14, e0222845.	1.1	0
32	NUP214 in Leukemia: It's More than Transport. Cells, 2019, 8, 76.	1.8	43
33	SET binding to Sgo1 inhibits Sgo1–cohesin interactions and promotes chromosome segregation. Journal of Cell Biology, 2019, 218, 2514-2528.	2.3	4
34	Use of Serine/Threonine Ligation for the Total Chemical Synthesis of HMGA1a Protein with Siteâ€Specific Lysine Acetylations. ChemPlusChem, 2019, 84, 779-785.	1.3	6
35	Metabolic intermediate acetyl phosphate modulates bacterial virulence <i>via</i> acetylation. Emerging Microbes and Infections, 2019, 8, 55-69.	3.0	37
36	KAT8 selectively inhibits antiviral immunity by acetylating IRF3. Journal of Experimental Medicine, 2019, 216, 772-785.	4.2	52
37	p53 Î ² -hydroxybutyrylation attenuates p53 activity. Cell Death and Disease, 2019, 10, 243.	2.7	76

#	ARTICLE	IF	CITATIONS
38	Loss of SET reveals both the p53-dependent and the p53-independent functions in vivo. Cell Death and Disease, 2019, 10, 237.	2.7	12
39	SET domain containing 1B gene is mutated in primary hepatic neuroendocrine tumors. International Journal of Cancer, 2019, 145, 2986-2995.	2.3	13
40	The inflammatory cytokine IL-6 induces FRA1 deacetylation promoting colorectal cancer stem-like properties. Oncogene, 2019, 38, 4932-4947.	2.6	48
41	HDAC2 Regulates Site-Specific Acetylation of MDM2 and Its Ubiquitination Signaling in Tumor Suppression. IScience, 2019, 13, 43-54.	1.9	13
42	The Hypervariable Region of K-Ras4B Governs Molecular Recognition and Function. International Journal of Molecular Sciences, 2019, 20, 5718.	1.8	12
43	PBRM1 acts as a p53 lysine-acetylation reader to suppress renal tumor growth. Nature Communications, 2019, 10, 5800.	5.8	47
44	Epigenetics and the dynamics of chromatin during adenovirus infections. FEBS Letters, 2019, 593, 3551-3570.	1.3	25
45	3′ UTRs Regulate Protein Functions by Providing a Nurturing Niche during Protein Synthesis. Cold Spring Harbor Symposia on Quantitative Biology, 2019, 84, 95-104.	2.0	8
46	Phosphorylation compromises FAD binding and intracellular stability of wild-type and cancer-associated NQO1: Insights into flavo-proteome stability. International Journal of Biological Macromolecules, 2019, 125, 1275-1288.	3.6	15
47	p53 Function Is Compromised by Inhibitor 2 of Phosphatase 2A in Sonic Hedgehog Medulloblastoma. Molecular Cancer Research, 2019, 17, 186-198.	1.5	10
48	DCAF1 (VprBP): emerging physiological roles for a unique dual-service E3 ubiquitin ligase substrate receptor. Journal of Molecular Cell Biology, 2019, 11, 725-735.	1.5	26
49	Functions and mechanisms of non-histone protein acetylation. Nature Reviews Molecular Cell Biology, 2019, 20, 156-174.	16.1	717
50	The role of p53 in developmental syndromes. Journal of Molecular Cell Biology, 2019, 11, 200-211.	1.5	51
51	Targeting SET to restore PP2A activity disrupts an oncogenic CIP2A-feedforward loop and impairs triple negative breast cancer progression. EBioMedicine, 2019, 40, 263-275.	2.7	33
52	The role of acetylation sites in the regulation of p53 activity. Molecular Biology Reports, 2020, 47, 381-391.	1.0	15
53	EX527, a Sirt-1 inhibitor, induces apoptosis in glioma via activating the p53 signaling pathway. Anti-Cancer Drugs, 2020, 31, 19-26.	0.7	37
54	Transcriptomic, proteomic and metabolomic profiling unravel the mechanisms of hepatotoxicity pathway induced by triphenyl phosphate (TPP). Ecotoxicology and Environmental Safety, 2020, 205, 111126.	2.9	28
55	A p53/lncâ€lp53 Negative Feedback Loop Regulates Tumor Growth and Chemoresistance. Advanced Science, 2020, 7, 2001364.	5.6	26

#	Article	IF	CITATIONS
56	Disclosing the Interactome of Leukemogenic NUP98-HOXA9 and SET-NUP214 Fusion Proteins Using a Proteomic Approach. Cells, 2020, 9, 1666.	1.8	9
57	Deacetylation of a deacetylase drives the DNA damage response. Genome Instability & Disease, 2020, 1, 151-154.	0.5	2
58	A Dedicated Evolutionarily Conserved Molecular Network Licenses Differentiated Cells to Return to the Cell Cycle. Developmental Cell, 2020, 55, 178-194.e7.	3.1	46
59	Epigenetic Therapies for Cancer. New England Journal of Medicine, 2020, 383, 650-663.	13.9	289
60	Tumor suppressor p53: from engaging DNA to target gene regulation. Nucleic Acids Research, 2020, 48, 8848-8869.	6.5	47
61	KSHV LANA acetylation-selective acidic domain reader sequence mediates virus persistence. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22443-22451.	3.3	12
62	OTUD5 cooperates with TRIM25 in transcriptional regulation and tumor progression via deubiquitination activity. Nature Communications, 2020, 11, 4184.	5.8	22
63	Embryonic Stem Cell Differentiation Is Regulated by SET through Interactions with p53 and \hat{l}^2 -Catenin. Stem Cell Reports, 2020, 15, 1260-1274.	2.3	4
64	PBRM1 suppresses tumor growth as a novel p53 acetylation reader. Molecular and Cellular Oncology, 2020, 7, 1729680.	0.3	0
65	Regulating tumor suppressor genes: post-translational modifications. Signal Transduction and Targeted Therapy, 2020, 5, 90.	7.1	193
66	Synergic effect of OP449 and FTY720 on oral squamous cell carcinoma. European Journal of Pharmacology, 2020, 882, 173268.	1.7	7
67	Targeting post-translational modification of transcription factors as cancer therapy. Drug Discovery Today, 2020, 25, 1502-1512.	3.2	27
68	Histone H1 eviction by the histone chaperone SET reduces cell survival following DNA damage. Journal of Cell Science, 2020, 133, .	1.2	11
69	Proteomic Analysis of Brain Region and Sex-Specific Synaptic Protein Expression in the Adult Mouse Brain. Cells, 2020, 9, 313.	1.8	20
70	Overexpression of peptidase inhibitor 16 attenuates angiotensin Il–induced cardiac fibrosis via regulating HDAC1 of cardiac fibroblasts. Journal of Cellular and Molecular Medicine, 2020, 24, 5249-5259.	1.6	21
71	MAFB Promotes Cancer Stemness and Tumorigenesis in Osteosarcoma through a Sox9-Mediated Positive Feedback Loop. Cancer Research, 2020, 80, 2472-2483.	0.4	33
72	Robust p53 Stabilization Is Dispensable for Its Activation and Tumor Suppressor Function. Cancer Research, 2021, 81, 935-944.	0.4	12
73	Toward Identifying Key Gene Group in the Occurrence and Development of Lung Adenocarcinoma. IEEE Access, 2021, 9, 26156-26167.	2.6	0

#	Article	IF	CITATIONS
74	MLDEG: A Machine Learning Approach to Identify Differentially Expressed Genes Using Network Property and Network Propagation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2356-2364.	1.9	2
75	Sirt-1 Regulates Physiological Process and Exerts Protective Effects against Oxidative Stress. BioMed Research International, 2021, 2021, 1-12.	0.9	6
76	Involvement of a novel regulatory cascade consisting of SET-H3K18ac/H3K27ac-53BP1 in Cr(VI)-induced malignant transformation of 16HBE cells. Toxicology Letters, 2021, 339, 70-77.	0.4	5
77	Epigenetic Modifiers: Anti-Neoplastic Drugs With Immunomodulating Potential. Frontiers in Immunology, 2021, 12, 652160.	2.2	12
78	An unexpected role for p53 in regulating cancer cell–intrinsic PD-1 by acetylation. Science Advances, 2021, 7, .	4.7	32
79	Acetylation of ELF5 suppresses breast cancer progression by promoting its degradation and targeting CCND1. Npj Precision Oncology, 2021, 5, 20.	2.3	16
80	Prognostic Value of the TP53 Mutation Location in Metastatic Breast Cancer as Detected by Next-Generation Sequencing. Cancer Management and Research, 2021, Volume 13, 3303-3316.	0.9	5
81	Proteomic Analysis on Anti-Proliferative and Apoptosis Effects of Curcumin Analog, 1,5-bis(4-Hydroxy-3-Methyoxyphenyl)-1,4-Pentadiene-3-One-Treated Human Glioblastoma and Neuroblastoma Cells. Frontiers in Molecular Biosciences, 2021, 8, 645856.	1.6	11
82	Mitochondrial cytochrome $\langle i \rangle c \langle i \rangle$ shot towards histone chaperone condensates in the nucleus. FEBS Open Bio, 2021, 11, 2418-2440.	1.0	13
83	Rely on Each Other: DNA Binding Cooperativity Shapes p53 Functions in Tumor Suppression and Cancer Therapy. Cancers, 2021, 13, 2422.	1.7	6
84	Phosphorylation-regulated HMGA1a-P53 interaction unveils the function of HMGA1a acidic tail phosphorylations via synthetic proteins. Cell Chemical Biology, 2021, 28, 722-732.e8.	2.5	10
85	Human TAF-Iα promotes oncogenic transformation via enhancement of cell proliferation and suppression of apoptosis. In Vitro Cellular and Developmental Biology - Animal, 2021, 57, 531-538.	0.7	1
86	Histone deacetylaseâ€'2: A potential regulator and therapeutic target in liver disease (Review). International Journal of Molecular Medicine, 2021, 48, .	1.8	11
87	p53 activation vs. stabilization: an acetylation tale from the C-terminal tail. Oncoscience, 2021, 8, 58-60.	0.9	4
88	Dying to Survive—The p53 Paradox. Cancers, 2021, 13, 3257.	1.7	18
89	A tri-functional amino acid enables mapping of binding sites for posttranslational-modification-mediated protein-protein interactions. Molecular Cell, 2021, 81, 2669-2681.e9.	4.5	39
90	SETBP1 accumulation induces P53 inhibition and genotoxic stress in neural progenitors underlying neurodegeneration in Schinzel-Giedion syndrome. Nature Communications, 2021, 12, 4050.	5.8	24
91	Protein acetylation: a novel modus of obesity regulation. Journal of Molecular Medicine, 2021, 99, 1221-1235.	1.7	3

#	ARTICLE	IF	CITATIONS
92	The interaction of SET and protein phosphatase 2A as target for cancer therapy. Biochimica Et Biophysica Acta: Reviews on Cancer, 2021, 1876, 188578.	3.3	14
93	DAXX represents a new type of protein-folding enabler. Nature, 2021, 597, 132-137.	13.7	54
94	Template activating factor-I epigenetically regulates the TERT transcription in human cancer cells. Scientific Reports, 2021, 11, 17726.	1.6	2
95	The CRL4 ^{DCAF1} cullinâ€RING ubiquitin ligase is activated following a switch in oligomerization state. EMBO Journal, 2021, 40, e108008.	3.5	19
96	Ascorbate: antioxidant and biochemical activities and their importance for in vitro models. Archives of Toxicology, 2021, 95, 3623-3631.	1.9	12
97	Arginine methylation by PRMT2 promotes IFN- \hat{l}^2 production through TLR4/IRF3 signaling pathway. Molecular Immunology, 2021, 139, 202-210.	1.0	6
98	Deciphering the PTM codes of the tumor suppressor p53. Journal of Molecular Cell Biology, 2022, 13, 774-785.	1.5	19
100	Geminin facilitates FoxO3 deacetylation to promote breast cancer cell metastasis. Journal of Clinical Investigation, 2017, 127, 2159-2175.	3.9	43
101	Acidic domains: "converse readers―for acetylation code. Oncotarget, 2016, 7, 80101-80102.	0.8	1
102	MYCN acts as a direct co-regulator of p53 in MYCN amplified neuroblastoma. Oncotarget, 2018, 9, 20323-20338.	0.8	28
103	Battle of the sexes: contrasting roles of testis-specific protein Y-encoded (TSPY) and TSPX in human oncogenesis. Asian Journal of Andrology, 2019, 21, 260.	0.8	9
104	Synergy between SIRT1 and SIRT6 helps recognize DNA breaks and potentiates the DNA damage response and repair in humans and mice. ELife, 2020, 9, .	2.8	49
105	Decreased SIRT1 expression in the peripheral blood of patients with Graves' disease. Journal of Endocrinology, 2020, 246, 161-173.	1.2	5
106	An unexpected role for Dicer as a reader of the unacetylated DNA binding domain of p53 in transcriptional regulation. Science Advances, 2021, 7, eabi6684.	4.7	5
109	Lysine Acetylation, Cancer Hallmarks and Emerging Onco-Therapeutic Opportunities. Cancers, 2022, 14, 346.	1.7	15
110	Insights into the post-translational modification and its emerging role in shaping the tumor microenvironment. Signal Transduction and Targeted Therapy, 2021, 6, 422.	7.1	57
111	p53 signaling in cancer progression and therapy. Cancer Cell International, 2021, 21, 703.	1.8	153
112	Oxidative stress-CBP axis modulates MOB1 acetylation and activates the Hippo signaling pathway. Nucleic Acids Research, 2022, 50, 3817-3834.	6.5	22

#	Article	IF	CITATIONS
113	Global MicroRNAs Expression Profile Analysis Reveals Possible Regulatory Mechanisms of Brain Injury Induced by Toxoplasma gondii Infection. Frontiers in Neuroscience, 2022, 16, 827570.	1.4	7
114	Alternatively mechanistic insights into acetylation in p53-mediated transcriptional regulation of cancer cell-intrinsic PD-1. Fundamental Research, 2023, 3, 647-654.	1.6	0
115	Molecular Dynamic Simulations of Bromodomain and Extra-Terminal Protein 4 Bonded to Potent Inhibitors. Molecules, 2022, 27, 118.	1.7	6
116	Cross-talk between mutant p53 and p62/SQSTM1 augments cancer cell migration by promoting the degradation of cell adhesion proteins. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119644119.	3.3	8
117	Deciphering the acetylation code of p53 in transcription regulation and tumor suppression. Oncogene, 2022, 41, 3039-3050.	2.6	20
118	Fasting induces a highly resilient deep quiescent state in muscle stem cells via ketone body signaling. Cell Metabolism, 2022, 34, 902-918.e6.	7.2	24
120	SIRT4-Catalyzed Deacetylation of Axin1 Modulates the Wnt/ \hat{l}^2 -Catenin Signaling Pathway. Frontiers in Oncology, 0, 12, .	1.3	7
121	Putative Roles of SETBP1 Dosage on the SET Oncogene to Affect Brain Development. Frontiers in Neuroscience, 2022, 16, .	1.4	13
122	The E3 Ligase TRIM4 Facilitates SET Ubiquitinâ€Mediated Degradation to Enhance ERâ€∢i>α Action in Breast Cancer. Advanced Science, 2022, 9, .	5.6	4
123	The repression of oncoprotein SET by the tumor suppressor p53 reveals a p53-SET-PP2A feedback loop for cancer therapy. Science China Life Sciences, 2023, 66, 81-93.	2.3	1
124	Protein of a thousand faces: The tumor-suppressive and oncogenic responses of p53. Frontiers in Molecular Biosciences, 0, 9, .	1.6	9
126	A single helix repression domain is functional acrossÂdiverse eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	1
127	Thirty years of SET/TAF1β/I2PP2A: from the identification of the biological functions to its implications in cancer and Alzheimer's disease. Bioscience Reports, 2022, 42, .	1.1	2
128	Human proto-oncogene promoters. , 2023, , 123-139.		0
129	MZF1 (Myeloid Zinc Finger 1) activates transcriptional activity of p53 and suppresses breast cancer cell proliferation via acetyltransferase PCAF (P300/CBP associated factor). Genes and Diseases, 2023, 10, 1775-1778.	1.5	1
130	Oncoprotein SET dynamically regulates cellular stress response through nucleocytoplasmic transport in breast cancer. Cell Biology and Toxicology, 0, , .	2.4	2
133	The SET oncoprotein promotes estrogen-induced transcription by facilitating establishment of active chromatin. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	1
134	InÂvivo RNA-seq and ChIP-seq analyses show an obligatory role for the C terminus of p53 in conferring tissue-specific radiation sensitivity. Cell Reports, 2023, 42, 112216.	2.9	4

#	Article	IF	CITATIONS
135	BmCBP Catalyzes the Acetylation of BmApoLp-II Protein and Regulates Its Stability in Silkworm, Bombyx mori. Insects, 2023, 14, 309.	1.0	1
136	Specific regulation of BACH1 by the hotspot mutant p53R175H reveals a distinct gain-of-function mechanism. Nature Cancer, 2023, 4, 564-581.	5.7	8
137	Targeting USP2 regulation of VPRBP-mediated degradation of p53 and PD-L1 for cancer therapy. Nature Communications, 2023, 14 , .	5.8	7