

Tony Kouzarides

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138
papers

48,030
citations

84
h-index

145
g-index

145
ext. papers

53,214
ext. citations

20.8
avg, IF

8.12
L-index

#	Paper	IF	Citations
138	Chromatin modifications and their function. <i>Cell</i> , 2007 , 128, 693-705	56.2	8008
137	Regulation of chromatin by histone modifications. <i>Cell Research</i> , 2011 , 21, 381-95	24.7	3303
136	Selective recognition of methylated lysine 9 on histone H3 by the HP1 chromo domain. <i>Nature</i> , 2001 , 410, 120-4	50.4	2213
135	Cancer epigenetics: from mechanism to therapy. <i>Cell</i> , 2012 , 150, 12-27	56.2	1932
134	Active genes are tri-methylated at K4 of histone H3. <i>Nature</i> , 2002 , 419, 407-11	50.4	1606
133	The CBP co-activator is a histone acetyltransferase. <i>Nature</i> , 1996 , 384, 641-3	50.4	1540
132	An operational definition of epigenetics. <i>Genes and Development</i> , 2009 , 23, 781-3	12.6	1156
131	Inhibition of BET recruitment to chromatin as an effective treatment for MLL-fusion leukaemia. <i>Nature</i> , 2011 , 478, 529-33	50.4	1144
130	Retinoblastoma protein recruits histone deacetylase to repress transcription. <i>Nature</i> , 1998 , 391, 597-601	50.4	1092
129	DNA methyltransferase Dnmt1 associates with histone deacetylase activity. <i>Nature Genetics</i> , 2000 , 24, 88-91	36.3	804
128	Rb targets histone H3 methylation and HP1 to promoters. <i>Nature</i> , 2001 , 412, 561-5	50.4	755
127	New nomenclature for chromatin-modifying enzymes. <i>Cell</i> , 2007 , 131, 633-6	56.2	745
126	Histone methylation in transcriptional control. <i>Current Opinion in Genetics and Development</i> , 2002 , 12, 198-209	4.9	744
125	The methyl-CpG-binding protein MeCP2 links DNA methylation to histone methylation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 4035-40	5.4	729
124	Methyltransferase recruitment and DNA hypermethylation of target promoters by an oncogenic transcription factor. <i>Science</i> , 2002 , 295, 1079-82	33.3	695
123	Human SIR2 deacetylates p53 and antagonizes PML/p53-induced cellular senescence. <i>EMBO Journal</i> , 2002 , 21, 2383-96	13	676
122	Histone deimination antagonizes arginine methylation. <i>Cell</i> , 2004 , 118, 545-53	56.2	655

121	The TAF(II)250 subunit of TFIID has histone acetyltransferase activity. <i>Cell</i> , 1996 , 87, 1261-70	56.2	632
120	Histone H3 lysine 4 methylation patterns in higher eukaryotic genes. <i>Nature Cell Biology</i> , 2004 , 6, 73-7	23.4	615
119	Histone core modifications regulating nucleosome structure and dynamics. <i>Nature Reviews Molecular Cell Biology</i> , 2014 , 15, 703-8	48.7	599
118	Methylation of histone H3 Lys 4 in coding regions of active genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 8695-700	11.5	593
117	Regulation of E2F1 activity by acetylation. <i>EMBO Journal</i> , 2000 , 19, 662-71	13	570
116	The DNA methyltransferases associate with HP1 and the SUV39H1 histone methyltransferase. <i>Nucleic Acids Research</i> , 2003 , 31, 2305-12	20.1	550
115	Histone acetylases and deacetylases in cell proliferation. <i>Current Opinion in Genetics and Development</i> , 1999 , 9, 40-8	4.9	536
114	Structure of the HP1 chromodomain bound to histone H3 methylated at lysine 9. <i>Nature</i> , 2002 , 416, 103-7	50.4	505
113	Promoter-bound METTL3 maintains myeloid leukaemia by m ^A -dependent translation control. <i>Nature</i> , 2017 , 552, 126-131	50.4	500
112	Mutations truncating the EP300 acetylase in human cancers. <i>Nature Genetics</i> , 2000 , 24, 300-3	36.3	482
111	JAK2 phosphorylates histone H3Y41 and excludes HP1alpha from chromatin. <i>Nature</i> , 2009 , 461, 819-22	50.4	480
110	Methylation of histone H4 lysine 20 controls recruitment of Crb2 to sites of DNA damage. <i>Cell</i> , 2004 , 119, 603-14	56.2	469
109	Histone arginine methylation regulates pluripotency in the early mouse embryo. <i>Nature</i> , 2007 , 445, 214-8	50.4	458
108	Nucleosome-interacting proteins regulated by DNA and histone methylation. <i>Cell</i> , 2010 , 143, 470-84	56.2	448
107	Stimulation of E2F1/DP1 transcriptional activity by MDM2 oncoprotein. <i>Nature</i> , 1995 , 375, 691-4	50.4	439
106	Histone methylation: dynamic or static?. <i>Cell</i> , 2002 , 109, 801-6	56.2	428
105	The Tudor domain Royal Family's Tudor, plant Agenet, Chromo, PWWP and MBT domains. <i>Trends in Biochemical Sciences</i> , 2003 , 28, 69-74	10.3	397
104	Reversing histone methylation. <i>Nature</i> , 2005 , 436, 1103-6	50.4	381

103	Blimp1 associates with Prmt5 and directs histone arginine methylation in mouse germ cells. <i>Nature Cell Biology</i> , 2006 , 8, 623-30	23.4	377
102	BET inhibitor resistance emerges from leukaemia stem cells. <i>Nature</i> , 2015 , 525, 538-42	50.4	345
101	EMSY links the BRCA2 pathway to sporadic breast and ovarian cancer. <i>Cell</i> , 2003 , 115, 523-35	56.2	345
100	Myc represses transcription through recruitment of DNA methyltransferase corepressor. <i>EMBO Journal</i> , 2005 , 24, 336-46	13	335
99	Targeting epigenetic readers in cancer. <i>New England Journal of Medicine</i> , 2012 , 367, 647-57	59.2	315
98	Spatial distribution of di- and tri-methyl lysine 36 of histone H3 at active genes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 17732-6	5.4	304
97	Human but not yeast CHD1 binds directly and selectively to histone H3 methylated at lysine 4 via its tandem chromodomains. <i>Journal of Biological Chemistry</i> , 2005 , 280, 41789-92	5.4	284
96	Arginine methylation at histone H3R2 controls deposition of H3K4 trimethylation. <i>Nature</i> , 2007 , 449, 928-32	50.4	282
95	The E7 oncoprotein associates with Mi2 and histone deacetylase activity to promote cell growth. <i>EMBO Journal</i> , 1999 , 18, 2449-58	13	273
94	Citrullination regulates pluripotency and histone H1 binding to chromatin. <i>Nature</i> , 2014 , 507, 104-8	50.4	264
93	Leucine zippers of fos, jun and GCN4 dictate dimerization specificity and thereby control DNA binding. <i>Nature</i> , 1989 , 340, 568-71	50.4	261
92	The SUMO E3 ligase RanBP2 promotes modification of the HDAC4 deacetylase. <i>EMBO Journal</i> , 2002 , 21, 2682-91	13	258
91	Methylation at arginine 17 of histone H3 is linked to gene activation. <i>EMBO Reports</i> , 2002 , 3, 39-44	6.5	253
90	Consequences of the depletion of zygotic and embryonic enhancer of zeste 2 during preimplantation mouse development. <i>Development (Cambridge)</i> , 2003 , 130, 4235-48	6.6	246
89	Unsafe SETs: histone lysine methyltransferases and cancer. <i>Trends in Biochemical Sciences</i> , 2002 , 27, 396-403	10.3	246
88	Crosstalk between CARM1 methylation and CBP acetylation on histone H3. <i>Current Biology</i> , 2002 , 12, 2090-7	6.3	242
87	Proline isomerization of histone H3 regulates lysine methylation and gene expression. <i>Cell</i> , 2006 , 126, 905-16	56.2	238
86	Methylation of histone H3 K4 mediates association of the Isw1p ATPase with chromatin. <i>Molecular Cell</i> , 2003 , 12, 1325-32	17.6	218

85	Histone H3 lysine 4 methylation disrupts binding of nucleosome remodeling and deacetylase (NuRD) repressor complex. <i>Journal of Biological Chemistry</i> , 2002 , 277, 11621-4	5.4	197
84	Dynamic distribution of the replacement histone variant H3.3 in the mouse oocyte and preimplantation embryos. <i>International Journal of Developmental Biology</i> , 2006 , 50, 455-61	1.9	193
83	Role of RNA modifications in cancer. <i>Nature Reviews Cancer</i> , 2020 , 20, 303-322	31.3	187
82	Differential expression of selected histone modifier genes in human solid cancers. <i>BMC Genomics</i> , 2006 , 7, 90	4.5	186
81	Isothiazolones as inhibitors of PCAF and p300 histone acetyltransferase activity. <i>Molecular Cancer Therapeutics</i> , 2005 , 4, 1521-32	6.1	186
80	Repression of RNA polymerase III transcription by the retinoblastoma protein. <i>Nature</i> , 1996 , 382, 88-90	50.4	186
79	The co-repressor mSin3A is a functional component of the REST-CoREST repressor complex. <i>Journal of Biological Chemistry</i> , 2000 , 275, 9461-7	5.4	184
78	Acetylation of importin-alpha nuclear import factors by CBP/p300. <i>Current Biology</i> , 2000 , 10, 467-70	6.3	162
77	Generation of a Selective Small Molecule Inhibitor of the CBP/p300 Bromodomain for Leukemia Therapy. <i>Cancer Research</i> , 2015 , 75, 5106-5119	10.1	155
76	cis-acting DNA from fission yeast centromeres mediates histone H3 methylation and recruitment of silencing factors and cohesin to an ectopic site. <i>Current Biology</i> , 2002 , 12, 1652-60	6.3	153
75	Glutamine methylation in histone H2A is an RNA-polymerase-I-dedicated modification. <i>Nature</i> , 2014 , 505, 564-8	50.4	149
74	Dnmt3L is a transcriptional repressor that recruits histone deacetylase. <i>Nucleic Acids Research</i> , 2002 , 30, 3831-8	20.1	142
73	Acetylation of beta-catenin by CREB-binding protein (CBP). <i>Journal of Biological Chemistry</i> , 2002 , 277, 25562-7	5.4	142
72	Discovery of I-BRD9, a Selective Cell Active Chemical Probe for Bromodomain Containing Protein 9 Inhibition. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 1425-39	8.3	135
71	Epstein-Barr virus nuclear antigen 3C interacts with histone deacetylase to repress transcription. <i>Journal of Virology</i> , 1999 , 73, 5688-97	6.6	131
70	METTL1 Promotes let-7 MicroRNA Processing via m7G Methylation. <i>Molecular Cell</i> , 2019 , 74, 1278-1290.e9.6	19.6	130
69	The retinoblastoma protein binds E2F residues required for activation in vivo and TBP binding in vitro. <i>Nucleic Acids Research</i> , 1993 , 21, 4998-5004	20.1	130
68	The maize retinoblastoma protein homologue ZmRb-1 is regulated during leaf development and displays conserved interactions with G1/S regulators and plant cyclin D (CycD) proteins. <i>Plant Molecular Biology</i> , 1998 , 37, 155-69	4.6	125

67	Retinoblastoma protein meets chromatin. <i>Trends in Biochemical Sciences</i> , 1999 , 24, 142-5	10.3	119
66	Histone H3 tail clipping regulates gene expression. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 17-22	17.6	113
65	Human RNA methyltransferase BCDIN3D regulates microRNA processing. <i>Cell</i> , 2012 , 151, 278-88	56.2	111
64	Small-molecule inhibition of METTL3 as a strategy against myeloid leukaemia. <i>Nature</i> , 2021 , 593, 597-603	30.4	105
63	The CBP co-activator stimulates E2F1/DP1 activity. <i>Nucleic Acids Research</i> , 1996 , 24, 4139-45	20.1	102
62	LIF-independent JAK signalling to chromatin in embryonic stem cells uncovered from an adult stem cell disease. <i>Nature Cell Biology</i> , 2011 , 13, 13-21	23.4	101
61	c-Jun is phosphorylated by the DNA-dependent protein kinase in vitro; definition of the minimal kinase recognition motif. <i>Nucleic Acids Research</i> , 1993 , 21, 1289-95	20.1	101
60	SnapShot: Histone-modifying enzymes. <i>Cell</i> , 2007 , 131, 822	56.2	96
59	Methylation of H3 lysine 4 at euchromatin promotes Sir3p association with heterochromatin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 47506-12	5.4	94
58	CBP/p300 integrates Raf/Rac-signaling pathways in the transcriptional induction of NF-ATc during T cell activation. <i>Immunity</i> , 1999 , 10, 515-24	32.3	91
57	Phosphorylation of histone H3 Thr-45 is linked to apoptosis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 16575-16583	5.4	85
56	Mechanisms of P/CAF auto-acetylation. <i>Nucleic Acids Research</i> , 2003 , 31, 4285-92	20.1	85
55	ALKBH1 is a histone H2A dioxygenase involved in neural differentiation. <i>Stem Cells</i> , 2012 , 30, 2672-82	5.8	83
54	BRCA2 associates with acetyltransferase activity when bound to P/CAF. <i>Oncogene</i> , 1998 , 17, 2531-4	9.2	83
53	Genomic positional conservation identifies topological anchor point RNAs linked to developmental loci. <i>Genome Biology</i> , 2018 , 19, 32	18.3	77
52	A chromodomain switch mediated by histone H3 Lys 4 acetylation regulates heterochromatin assembly. <i>Genes and Development</i> , 2010 , 24, 647-52	12.6	74
51	MCM3AP, a novel acetyltransferase that acetylates replication protein MCM3. <i>EMBO Reports</i> , 2001 , 2, 119-23	6.5	73
50	Functional interdependence of BRD4 and DOT1L in MLL leukemia. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 673-81	17.6	69

49	Histone methylation: recognizing the methyl mark. <i>Methods in Enzymology</i> , 2004 , 376, 269-88	1.7	69
48	Direct binding of INHAT to H3 tails disrupted by modifications. <i>Journal of Biological Chemistry</i> , 2004 , 279, 23859-62	5.4	63
47	Characterization of an E1A-CBP interaction defines a novel transcriptional adapter motif (TRAM) in CBP/p300. <i>Journal of Virology</i> , 1999 , 73, 3574-81	6.6	63
46	SnapShot: Histone-modifying enzymes. <i>Cell</i> , 2007 , 128, 802	56.2	61
45	The HMG-box transcription factor HBP1 is targeted by the pocket proteins and E1A. <i>Oncogene</i> , 1997 , 14, 2721-8	9.2	60
44	Amplification of the BRCA2 pathway gene EMSY in sporadic breast cancer is related to negative outcome. <i>Clinical Cancer Research</i> , 2004 , 10, 5785-91	12.9	59
43	BET protein inhibition shows efficacy against JAK2V617F-driven neoplasms. <i>Leukemia</i> , 2014 , 28, 88-97	10.7	57
42	Regulation of histone H3 lysine 56 acetylation in <i>Schizosaccharomyces pombe</i> . <i>Journal of Biological Chemistry</i> , 2007 , 282, 15040-7	5.4	55
41	A Chemical Probe for the ATAD2 Bromodomain. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11382-6	16.4	53
40	The PHD and chromo domains regulate the ATPase activity of the human chromatin remodeler CHD4. <i>Journal of Molecular Biology</i> , 2012 , 422, 3-17	6.5	51
39	A novel human Ada2 homologue functions with Gcn5 or Brg1 to coactivate transcription. <i>Molecular and Cellular Biology</i> , 2003 , 23, 6944-57	4.8	51
38	Three distinct patterns of histone H3Y41 phosphorylation mark active genes. <i>Cell Reports</i> , 2012 , 2, 470-7	10.6	49
37	p300 is required for orderly G1/S transition in human cancer cells. <i>Oncogene</i> , 2007 , 26, 21-9	9.2	49
36	The breast cancer oncogene EMSY represses transcription of antimetastatic microRNA miR-31. <i>Molecular Cell</i> , 2014 , 53, 806-18	17.6	43
35	Distinct transcriptional outputs associated with mono- and dimethylated histone H3 arginine 2. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 449-51	17.6	41
34	Histone H3 lysine 4 methylation is associated with the transcriptional reprogramming efficiency of somatic nuclei by oocytes. <i>Epigenetics and Chromatin</i> , 2010 , 3, 4	5.8	34
33	The non-coding snRNA 7SK controls transcriptional termination, poising, and bidirectionality in embryonic stem cells. <i>Genome Biology</i> , 2013 , 14, R98	18.3	33
32	Heritable gene repression through the action of a directed DNA methyltransferase at a chromosomal locus. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9878-85	5.4	33

31	RNA modifications detection by comparative Nanopore direct RNA sequencing		33
30	SRPK1 maintains acute myeloid leukemia through effects on isoform usage of epigenetic regulators including BRD4. <i>Nature Communications</i> , 2018 , 9, 5378	17.4	30
29	Genome-wide studies of histone demethylation catalysed by the fission yeast homologues of mammalian LSD1. <i>PLoS ONE</i> , 2007 , 2, e386	3.7	29
28	Inhibition of the acetyltransferase NAT10 normalizes progeric and aging cells by rebalancing the Transportin-1 nuclear import pathway. <i>Science Signaling</i> , 2018 , 11,	8.8	28
27	A computational platform for high-throughput analysis of RNA sequences and modifications by mass spectrometry. <i>Nature Communications</i> , 2020 , 11, 926	17.4	27
26	A lncRNA fine tunes the dynamics of a cell state transition involving , and DNA methylation. <i>ELife</i> , 2017 , 6,	8.9	26
25	Binding of EMSY to HP1beta: implications for recruitment of HP1beta and BS69. <i>EMBO Reports</i> , 2005 , 6, 675-80	6.5	26
24	RNA Binding by Histone Methyltransferases Set1 and Set2. <i>Molecular and Cellular Biology</i> , 2017 , 37,	4.8	21
23	Crystal structure of the ENT domain of human EMSY. <i>Journal of Molecular Biology</i> , 2005 , 350, 964-73	6.5	19
22	Up-regulation of the interferon-related genes in BRCA2 knockout epithelial cells. <i>Journal of Pathology</i> , 2014 , 234, 386-97	9.4	18
21	The BRCA2 activation domain associates with and is phosphorylated by a cellular protein kinase. <i>Oncogene</i> , 2000 , 19, 4441-5	9.2	18
20	RNA modifications detection by comparative Nanopore direct RNA sequencing. <i>Nature Communications</i> , 2021 , 12, 7198	17.4	18
19	Basic peptides enhance protein/DNA interaction in vitro. <i>Nucleic Acids Research</i> , 1992 , 20, 3523	20.1	17
18	DDX3X RNA helicase affects breast cancer cell cycle progression by regulating expression of KLF4. <i>FEBS Letters</i> , 2018 , 592, 2308-2322	3.8	17
17	Targeting the mA RNA modification pathway blocks SARS-CoV-2 and HCoV-OC43 replication. <i>Genes and Development</i> , 2021 , 35, 1005-1019	12.6	16
16	Phosphorylation of Histone H4T80 Triggers DNA Damage Checkpoint Recovery. <i>Molecular Cell</i> , 2018 , 72, 625-635.e4	17.6	15
15	RNA-modifying enzymes and their function in a chromatin context. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 858-862	17.6	14
14	Identification of SARS-CoV-2-induced pathways reveals drug repurposing strategies. <i>Science Advances</i> , 2021 , 7,	14.3	13

13	Citrullination of HP1 chromodomain affects association with chromatin. <i>Epigenetics and Chromatin</i> , 2019 , 12, 21	5.8	11
12	The <i>S. pombe</i> histone H2A dioxygenase Ofd2 regulates gene expression during hypoxia. <i>PLoS ONE</i> , 2012 , 7, e29765	3.7	11
11	The putative tumour suppressor Fus-2 is an N-acetyltransferase. <i>Oncogene</i> , 2000 , 19, 161-3	9.2	9
10	A Chemical Probe for the ATAD2 Bromodomain. <i>Angewandte Chemie</i> , 2016 , 128, 11554-11558	3.6	9
9	S6 kinase 2 is bound to chromatin-nuclear matrix cellular fractions and is able to phosphorylate histone H3 at threonine 45 in vitro and in vivo. <i>Journal of Cellular Biochemistry</i> , 2014 , 115, 1048-62	4.7	8
8	Post transcriptional control of the epigenetic stem cell regulator PLZF by sirtuin and HDAC deacetylases. <i>Epigenetics and Chromatin</i> , 2015 , 8, 38	5.8	8
7	Methylation of histone H3 at lysine 37 by Set1 and Set2 prevents spurious DNA replication. <i>Molecular Cell</i> , 2021 , 81, 2793-2807.e8	17.6	6
6	Nuclear JAK2. <i>Blood</i> , 2011 , 118, 6987-8	2.2	5
5	Further Evidence Supporting N7-Methylation of Guanosine (mG) in Human MicroRNAs. <i>Molecular Cell</i> , 2020 , 79, 201-202	17.6	5
4	Interaction of Sox2 with RNA binding proteins in mouse embryonic stem cells. <i>Experimental Cell Research</i> , 2019 , 381, 129-138	4.2	4
3	Both the Activity and Stability of the Transcriptional Repressor PLZF Are Modified by the Class III Histone Deacetylase SIRT1.. <i>Blood</i> , 2004 , 104, 360-360	2.2	
2	Directed De Novo DNA Methylation of a Genomic Locus Leads to Heritable Transcriptional Repression.. <i>Blood</i> , 2007 , 110, 343-343	2.2	
1	Structure/Function and Oncogenic Conversion of Fos and Jun 1997 , 223-247		