

Kristian Helin

List of Publications by Citations

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112
papers

19,949
citations

61
h-index

124
g-index

124
ext. papers

22,815
ext. citations

15.4
avg, IF

7.04
L-index

#	Paper	IF	Citations
112	UTX and JMJD3 are histone H3K27 demethylases involved in HOX gene regulation and development. <i>Nature</i> , 2007 , 449, 731-4	50.4	975
111	Genome-wide mapping of Polycomb target genes unravels their roles in cell fate transitions. <i>Genes and Development</i> , 2006 , 20, 1123-36	12.6	960
110	EZH2 is downstream of the pRB-E2F pathway, essential for proliferation and amplified in cancer. <i>EMBO Journal</i> , 2003 , 22, 5323-35	13	894
109	TET1 and hydroxymethylcytosine in transcription and DNA methylation fidelity. <i>Nature</i> , 2011 , 473, 343-8	50.4	796
108	Suz12 is essential for mouse development and for EZH2 histone methyltransferase activity. <i>EMBO Journal</i> , 2004 , 23, 4061-71	13	670
107	The Polycomb group proteins bind throughout the INK4A-ARF locus and are disassociated in senescent cells. <i>Genes and Development</i> , 2007 , 21, 525-30	12.6	668
106	Transcriptional regulation by Polycomb group proteins. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1147-55	17.6	606
105	The putative oncogene GASC1 demethylates tri- and dimethylated lysine 9 on histone H3. <i>Nature</i> , 2006 , 442, 307-11	50.4	599
104	Molecular mechanisms and potential functions of histone demethylases. <i>Nature Reviews Molecular Cell Biology</i> , 2012 , 13, 297-311	48.7	594
103	A model for transmission of the H3K27me3 epigenetic mark. <i>Nature Cell Biology</i> , 2008 , 10, 1291-300	23.4	558
102	The polycomb group protein Suz12 is required for embryonic stem cell differentiation. <i>Molecular and Cellular Biology</i> , 2007 , 27, 3769-79	4.8	549
101	Role of TET enzymes in DNA methylation, development, and cancer. <i>Genes and Development</i> , 2016 , 30, 733-50	12.6	539
100	Apaf-1 is a transcriptional target for E2F and p53. <i>Nature Cell Biology</i> , 2001 , 3, 552-8	23.4	503
99	Reduced H3K27me3 and DNA hypomethylation are major drivers of gene expression in K27M mutant pediatric high-grade gliomas. <i>Cancer Cell</i> , 2013 , 24, 660-72	24.3	478
98	Polycomb group proteins: navigators of lineage pathways led astray in cancer. <i>Nature Reviews Cancer</i> , 2009 , 9, 773-84	31.3	459
97	E2F target genes: unraveling the biology. <i>Trends in Biochemical Sciences</i> , 2004 , 29, 409-17	10.3	433
96	JARID2 regulates binding of the Polycomb repressive complex 2 to target genes in ES cells. <i>Nature</i> , 2010 , 464, 306-10	50.4	427

95	RBP2 belongs to a family of demethylases, specific for tri-and dimethylated lysine 4 on histone 3. <i>Cell</i> , 2007 , 128, 1063-76	56.2	416
94	Histone lysine demethylases as targets for anticancer therapy. <i>Nature Reviews Drug Discovery</i> , 2013 , 12, 917-30	64.1	347
93	Chromatin proteins and modifications as drug targets. <i>Nature</i> , 2013 , 502, 480-8	50.4	345
92	The H3K27me3 demethylase JMJD3 contributes to the activation of the INK4A-ARF locus in response to oncogene- and stress-induced senescence. <i>Genes and Development</i> , 2009 , 23, 1171-6	12.6	344
91	Polycomb complex 2 is required for E-cadherin repression by the Snail1 transcription factor. <i>Molecular and Cellular Biology</i> , 2008 , 28, 4772-81	4.8	336
90	Gene silencing triggers polycomb repressive complex 2 recruitment to CpG islands genome wide. <i>Molecular Cell</i> , 2014 , 55, 347-60	17.6	296
89	Fbxl10/Kdm2b recruits polycomb repressive complex 1 to CpG islands and regulates H2A ubiquitylation. <i>Molecular Cell</i> , 2013 , 49, 1134-46	17.6	279
88	EZH2 is a potential therapeutic target for H3K27M-mutant pediatric gliomas. <i>Nature Medicine</i> , 2017 , 23, 483-492	50.5	278
87	Histone demethylases in development and disease. <i>Trends in Cell Biology</i> , 2010 , 20, 662-71	18.3	278
86	Polycomb complexes act redundantly to repress genomic repeats and genes. <i>Genes and Development</i> , 2010 , 24, 265-76	12.6	264
85	Characterization of an antagonistic switch between histone H3 lysine 27 methylation and acetylation in the transcriptional regulation of Polycomb group target genes. <i>Nucleic Acids Research</i> , 2010 , 38, 4958-69	20.1	251
84	Maintaining cell identity: PRC2-mediated regulation of transcription and cancer. <i>Nature Reviews Cancer</i> , 2016 , 16, 803-810	31.3	251
83	Chromatin repressive complexes in stem cells, development, and cancer. <i>Cell Stem Cell</i> , 2014 , 14, 735-5118		238
82	DNA methylation: TET proteins-guardians of CpG islands?. <i>EMBO Reports</i> , 2011 , 13, 28-35	6.5	236
81	Tet proteins connect the O-linked N-acetylglucosamine transferase Ogt to chromatin in embryonic stem cells. <i>Molecular Cell</i> , 2013 , 49, 645-56	17.6	231
80	Histone methyltransferases in cancer. <i>Seminars in Cell and Developmental Biology</i> , 2010 , 21, 209-20	7.5	228
79	Role of the polycomb repressive complex 2 in acute promyelocytic leukemia. <i>Cancer Cell</i> , 2007 , 11, 513-251.3	21.3	210
78	Molecular Mechanisms Directing PRC2 Recruitment and H3K27 Methylation. <i>Molecular Cell</i> , 2019 , 74, 8-18	17.6	197

77	Jarid2 Is Implicated in the Initial Xist-Induced Targeting of PRC2 to the Inactive X Chromosome. <i>Molecular Cell</i> , 2014 , 53, 301-16	17.6	191
76	The emerging functions of histone demethylases. <i>Current Opinion in Genetics and Development</i> , 2008 , 18, 159-68	4.9	182
75	E2F-6: a novel member of the E2F family is an inhibitor of E2F-dependent transcription. <i>Oncogene</i> , 1998 , 17, 611-23	9.2	167
74	APAF1 is a key transcriptional target for p53 in the regulation of neuronal cell death. <i>Journal of Cell Biology</i> , 2001 , 155, 207-16	7.3	166
73	Polycomb Cbx family members mediate the balance between haematopoietic stem cell self-renewal and differentiation. <i>Nature Cell Biology</i> , 2013 , 15, 353-62	23.4	165
72	Loss of TET2 in hematopoietic cells leads to DNA hypermethylation of active enhancers and induction of leukemogenesis. <i>Genes and Development</i> , 2015 , 29, 910-22	12.6	162
71	A functional link between the histone demethylase PHF8 and the transcription factor ZNF711 in X-linked mental retardation. <i>Molecular Cell</i> , 2010 , 38, 165-78	17.6	162
70	ATAD2 is a novel cofactor for MYC, overexpressed and amplified in aggressive tumors. <i>Cancer Research</i> , 2009 , 69, 8491-8	10.1	162
69	Bypass of senescence by the polycomb group protein CBX8 through direct binding to the INK4A-ARF locus. <i>EMBO Journal</i> , 2007 , 26, 1637-48	13	157
68	Jarid2 binds mono-ubiquitylated H2A lysine 119 to mediate crosstalk between Polycomb complexes PRC1 and PRC2. <i>Nature Communications</i> , 2016 , 7, 13661	17.4	146
67	Jarid1b targets genes regulating development and is involved in neural differentiation. <i>EMBO Journal</i> , 2011 , 30, 4586-600	13	135
66	The lncRNA MIR31HG regulates p16(INK4A) expression to modulate senescence. <i>Nature Communications</i> , 2015 , 6, 6967	17.4	126
65	E2F-1-induced p53-independent apoptosis in transgenic mice. <i>Oncogene</i> , 1998 , 17, 143-55	9.2	114
64	Quantitative mass spectrometry of histones H3.2 and H3.3 in Suz12-deficient mouse embryonic stem cells reveals distinct, dynamic post-translational modifications at Lys-27 and Lys-36. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 838-50	7.6	107
63	Loss of the retinoblastoma protein-related p130 protein in small cell lung carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 6933-8	11.5	107
62	Role of the Polycomb Repressive Complex 2 (PRC2) in Transcriptional Regulation and Cancer. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016 , 6,	5.4	99
61	NEK11 regulates CDC25A degradation and the IR-induced G2/M checkpoint. <i>Nature Cell Biology</i> , 2009 , 11, 1247-53	23.4	99
60	E2F1 is crucial for E2F-dependent apoptosis. <i>EMBO Reports</i> , 2005 , 6, 661-8	6.5	99

59	Genome-wide profiling identifies a DNA methylation signature that associates with TET2 mutations in diffuse large B-cell lymphoma. <i>Haematologica</i> , 2013 , 98, 1912-20	6.6	98
58	The histone demethylase Jarid1b ensures faithful mouse development by protecting developmental genes from aberrant H3K4me3. <i>PLoS Genetics</i> , 2013 , 9, e1003461	6	88
57	Accurate H3K27 methylation can be established de novo by SUZ12-directed PRC2. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 225-232	17.6	79
56	Optimizing sgRNA position markedly improves the efficiency of CRISPR/dCas9-mediated transcriptional repression. <i>Nucleic Acids Research</i> , 2016 , 44, e141	20.1	78
55	Middle-down hybrid chromatography/tandem mass spectrometry workflow for characterization of combinatorial post-translational modifications in histones. <i>Proteomics</i> , 2014 , 14, 2200-11	4.8	68
54	Utx is required for proper induction of ectoderm and mesoderm during differentiation of embryonic stem cells. <i>PLoS ONE</i> , 2013 , 8, e60020	3.7	65
53	Continual removal of H3K9 promoter methylation by Jmjd2 demethylases is vital for ESC self-renewal and early development. <i>EMBO Journal</i> , 2016 , 35, 1550-64	13	64
52	shRNA screening identifies JMJD1C as being required for leukemia maintenance. <i>Blood</i> , 2014 , 123, 1870-82	2.82	62
51	The demethylase JMJD2C localizes to H3K4me3-positive transcription start sites and is dispensable for embryonic development. <i>Molecular and Cellular Biology</i> , 2014 , 34, 1031-45	4.8	56
50	Oncohistones: drivers of pediatric cancers. <i>Genes and Development</i> , 2017 , 31, 2313-2324	12.6	56
49	PRMT5 methylome profiling uncovers a direct link to splicing regulation in acute myeloid leukemia. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 999-1012	17.6	54
48	Systems Level Analysis of Histone H3 Post-translational Modifications (PTMs) Reveals Features of PTM Crosstalk in Chromatin Regulation. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 2715-29	7.6	53
47	Jmjd2/Kdm4 demethylases are required for expression of Il3ra and survival of acute myeloid leukemia cells. <i>Genes and Development</i> , 2016 , 30, 1278-88	12.6	51
46	The histone lysine demethylase JMJD3/KDM6B is recruited to p53 bound promoters and enhancer elements in a p53 dependent manner. <i>PLoS ONE</i> , 2014 , 9, e96545	3.7	51
45	Non-core Subunits of the PRC2 Complex Are Collectively Required for Its Target-Site Specificity. <i>Molecular Cell</i> , 2019 , 76, 423-436.e3	17.6	50
44	DNMT3A(R882H) mutant and Tet2 inactivation cooperate in the deregulation of DNA methylation control to induce lymphoid malignancies in mice. <i>Leukemia</i> , 2016 , 30, 1388-98	10.7	48
43	Epigenetic control of IL-23 expression in keratinocytes is important for chronic skin inflammation. <i>Nature Communications</i> , 2018 , 9, 1420	17.4	45
42	RSV-Induced H3K4 Demethylase KDM5B Leads to Regulation of Dendritic Cell-Derived Innate Cytokines and Exacerbates Pathogenesis In Vivo. <i>PLoS Pathogens</i> , 2015 , 11, e1004978	7.6	45

41	ZFP57 maintains the parent-of-origin-specific expression of the imprinted genes and differentially affects non-imprinted targets in mouse embryonic stem cells. <i>Nucleic Acids Research</i> , 2016 , 44, 8165-78	20.1	38
40	The histone demethylase Jarid1b is required for hematopoietic stem cell self-renewal in mice. <i>Blood</i> , 2015 , 125, 2075-8	2.2	35
39	KDM4A regulates the maternal-to-zygotic transition by protecting broad H3K4me3 domains from H3K9me3 invasion in oocytes. <i>Nature Cell Biology</i> , 2020 , 22, 380-388	23.4	33
38	TET2 binding to enhancers facilitates transcription factor recruitment in hematopoietic cells. <i>Genome Research</i> , 2019 , 29, 564-575	9.7	30
37	PRMT5 Inhibition Modulates E2F1 Methylation and Gene-Regulatory Networks Leading to Therapeutic Efficacy in JAK2-Mutant MPN. <i>Cancer Discovery</i> , 2020 , 10, 1742-1757	24.4	30
36	Tumor suppressor ASXL1 is essential for the activation of INK4B expression in response to oncogene activity and anti-proliferative signals. <i>Cell Research</i> , 2015 , 25, 1205-18	24.7	28
35	NEK11: linking CHK1 and CDC25A in DNA damage checkpoint signaling. <i>Cell Cycle</i> , 2010 , 9, 450-5	4.7	26
34	Quantification of Differential Transcription Factor Activity and Multiomics-Based Classification into Activators and Repressors: diffTF. <i>Cell Reports</i> , 2019 , 29, 3147-3159.e12	10.6	26
33	Epigenetic Regulation of Angiogenesis by JARID1B-Induced Repression of HOXA5. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1645-52	9.4	24
32	PLZF targets developmental enhancers for activation during osteogenic differentiation of human mesenchymal stem cells. <i>ELife</i> , 2019 , 8,	8.9	24
31	The KDM4/JMJD2 histone demethylases are required for hematopoietic stem cell maintenance. <i>Blood</i> , 2019 , 134, 1154-1158	2.2	19
30	Maternal expression of the histone demethylase Kdm4a is crucial for pre-implantation development. <i>Development (Cambridge)</i> , 2017 , 144, 3264-3277	6.6	19
29	E2F activates late-G1 events but cannot replace E1A in inducing S phase in terminally differentiated skeletal muscle cells. <i>Oncogene</i> , 1999 , 18, 5054-62	9.2	19
28	E2F1-mediated transcriptional inhibition of the plasminogen activator inhibitor type 1 gene. <i>FEBS Journal</i> , 2001 , 268, 4969-78		18
27	A Functional Link between Nuclear RNA Decay and Transcriptional Control Mediated by the Polycomb Repressive Complex 2. <i>Cell Reports</i> , 2019 , 29, 1800-1811.e6	10.6	17
26	PR-DUB maintains the expression of critical genes through FOXK1/2- and ASXL1/2/3-dependent recruitment to chromatin and H2AK119ub1 deubiquitination. <i>Genome Research</i> , 2020 , 30, 1119-1130	9.7	15
25	A screen identifies the oncogenic micro-RNA miR-378a-5p as a negative regulator of oncogene-induced senescence. <i>PLoS ONE</i> , 2014 , 9, e91034	3.7	14
24	SWI/SNF Subunits SMARCA4, SMARCD2 and DPF2 Collaborate in MLL-Rearranged Leukaemia Maintenance. <i>PLoS ONE</i> , 2015 , 10, e0142806	3.7	13

23	Human CDT1 associates with CDC7 and recruits CDC45 to chromatin during S phase. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3028-3036	5.4	13
22	Isolation and characterization of DUSP11, a novel p53 target gene. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 2158-2170	5.6	13
21	Mutant FOXL2 Hijacks SMAD4 and SMAD2/3 to Drive Adult Granulosa Cell Tumors. <i>Cancer Research</i> , 2020 , 80, 3466-3479	10.1	12
20	Identification of recurrent FHL2-GLI2 oncogenic fusion in sclerosing stromal tumors of the ovary. <i>Nature Communications</i> , 2020 , 11, 44	17.4	12
19	Aggressiveness of non-EMT breast cancer cells relies on FBXO11 activity. <i>Molecular Cancer</i> , 2018 , 17, 171	42.1	11
18	The p53 tumour suppressor protein. <i>Biotechnology and Genetic Engineering Reviews</i> , 2000 , 17, 179-211	4.1	10
17	The Lysine Demethylase KDM5B Regulates Islet Function and Glucose Homeostasis. <i>Journal of Diabetes Research</i> , 2019 , 2019, 5451038	3.9	7
16	TET2 mutations are associated with hypermethylation at key regulatory enhancers in normal and malignant hematopoiesis. <i>Nature Communications</i> , 2021 , 12, 6061	17.4	7
15	Complex-dependent histone acetyltransferase activity of KAT8 determines its role in transcription and cellular homeostasis. <i>Molecular Cell</i> , 2021 , 81, 1749-1765.e8	17.6	7
14	The Role of Chromatin-Associated Proteins in Cancer. <i>Annual Review of Cancer Biology</i> , 2017 , 1, 355-377	13.3	6
13	MPP8 is essential for sustaining self-renewal of ground-state pluripotent stem cells. <i>Nature Communications</i> , 2021 , 12, 3034	17.4	6
12	TET1: an epigenetic guardian of lymphomagenesis. <i>Nature Immunology</i> , 2015 , 16, 592-4	19.1	4
11	SATB2 preserves colon stem cell identity and mediates ileum-colon conversion via enhancer remodeling. <i>Cell Stem Cell</i> , 2021 ,	18	4
10	The histone demethylase Jarid1b mediates angiotensin II-induced endothelial dysfunction by controlling the 35JTR of soluble epoxide hydrolase. <i>Acta Physiologica</i> , 2019 , 225, e13168	5.6	3
9	Quantification of differential transcription factor activity and multiomics-based classification into activators and repressors:diffTF		3
8	Chromatin modifier HUSH co-operates with RNA decay factor NEXT to restrict transposable element expression.. <i>Molecular Cell</i> , 2022 ,	17.6	3
7	The SETDB1-TRIM28 Complex Suppresses Antitumor Immunity. <i>Cancer Immunology Research</i> , 2021 , 9, 1413-1424	12.5	2
6	TET2 binding to enhancers facilitates transcription factor recruitment in hematopoietic cells		2

5	Regional tumour glutamine supply affects chromatin and cell identity. <i>Nature Cell Biology</i> , 2016 , 18, 1027-94	2
4	PROSER1 mediates TET2 O-GlcNAcylation to regulate DNA demethylation on UTX-dependent enhancers and CpG islands. <i>Life Science Alliance</i> , 2022 , 5,	5.8 1
3	Generation of locus-specific degradable tag knock-ins in mouse and human cell lines. <i>STAR Protocols</i> , 2021 , 2, 100575	1.4 0
2	ChIP-Sequencing of TET Proteins. <i>Methods in Molecular Biology</i> , 2021 , 2272, 251-262	1.4 0
1	Regulation of cell proliferation by the E2F transcription factors. <i>Biochemical Society Transactions</i> , 1999 , 27, A64-A64	5.1