Kristian Helin

List of Publications by Year in Descending Order

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	PROSER1 mediates TET2 O-GlcNAcylation to regulate DNA demethylation on UTX-dependent enhancers and CpG islands. *Life Science Alliance*, **2022**, 5,	5.8	1
111	Chromatin modifier HUSH co-operates with RNA decay factor NEXT to restrict transposable element expression.. *Molecular Cell*, **2022**,	17.6	3
110	The SETDB1-TRIM28 Complex Suppresses Antitumor Immunity. *Cancer Immunology Research*, **2021**, 9, 1413-1424	12.5	2
109	TET2 mutations are associated with hypermethylation at key regulatory enhancers in normal and malignant hematopoiesis. *Nature Communications*, **2021**, 12, 6061	17.4	7
108	Complex-dependent histone acetyltransferase activity of KAT8 determines its role in transcription and cellular homeostasis. *Molecular Cell*, **2021**, 81, 1749-1765.e8	17.6	7
107	MPP8 is essential for sustaining self-renewal of ground-state pluripotent stem cells. *Nature Communications*, **2021**, 12, 3034	17.4	6
106	Generation of locus-specific degradable tag knock-ins in mouse and human cell lines. *STAR Protocols*, **2021**, 2, 100575	1.4	0
105	ChIP-Sequencing of TET Proteins. *Methods in Molecular Biology*, **2021**, 2272, 251-262	1.4	0
104	SATB2 preserves colon stem cell identity and mediates ileum-colon conversion via enhancer remodeling. *Cell Stem Cell*, **2021**,	18	4
103	KDM4A regulates the maternal-to-zygotic transition by protecting broad H3K4me3 domains from H3K9me3 invasion in oocytes. *Nature Cell Biology*, **2020**, 22, 380-388	23.4	33
102	Mutant FOXL2 Hijacks SMAD4 and SMAD2/3 to Drive Adult Granulosa Cell Tumors. *Cancer Research*, **2020**, 80, 3466-3479	10.1	12
101	Identification of recurrent FHL2-GLI2 oncogenic fusion in sclerosing stromal tumors of the ovary. *Nature Communications*, **2020**, 11, 44	17.4	12
100	PRMT5 Inhibition Modulates E2F1 Methylation and Gene-Regulatory Networks Leading to Therapeutic Efficacy in JAK2-Mutant MPN. *Cancer Discovery*, **2020**, 10, 1742-1757	24.4	30
99	PR-DUB maintains the expression of critical genes through FOXK1/2- and ASXL1/2/3-dependent recruitment to chromatin and H2AK119ub1 deubiquitination. *Genome Research*, **2020**, 30, 1119-1130	9.7	15
98	The KDM4/JMJD2 histone demethylases are required for hematopoietic stem cell maintenance. *Blood*, **2019**, 134, 1154-1158	2.2	19
97	Non-core Subunits of the PRC2 Complex Are Collectively Required for Its Target-Site Specificity. *Molecular Cell*, **2019**, 76, 423-436.e3	17.6	50
96	Molecular Mechanisms Directing PRC2 Recruitment and H3K27 Methylation. *Molecular Cell*, **2019**, 74, 8-18	17.6	197

95	TET2 binding to enhancers facilitates transcription factor recruitment in hematopoietic cells. *Genome Research*, **2019**, 29, 564-575	9.7	30
94	The histone demethylase Jarid1b mediates angiotensin II-induced endothelial dysfunction by controlling the 3′UTR of soluble epoxide hydrolase. *Acta Physiologica*, **2019**, 225, e13168	5.6	3
93	The Lysine Demethylase KDM5B Regulates Islet Function and Glucose Homeostasis. *Journal of Diabetes Research*, **2019**, 2019, 5451038	3.9	7
92	PRMT5 methylome profiling uncovers a direct link to splicing regulation in acute myeloid leukemia. *Nature Structural and Molecular Biology*, **2019**, 26, 999-1012	17.6	54
91	A Functional Link between Nuclear RNA Decay and Transcriptional Control Mediated by the Polycomb Repressive Complex 2. *Cell Reports*, **2019**, 29, 1800-1811.e6	10.6	17
90	PLZF targets developmental enhancers for activation during osteogenic differentiation of human mesenchymal stem cells. *ELife*, **2019**, 8,	8.9	24
89	Quantification of Differential Transcription Factor Activity and Multiomics-Based Classification into Activators and Repressors: diffTF. *Cell Reports*, **2019**, 29, 3147-3159.e12	10.6	26
88	Accurate H3K27 methylation can be established de novo by SUZ12-directed PRC2. *Nature Structural and Molecular Biology*, **2018**, 25, 225-232	17.6	79
87	Epigenetic control of IL-23 expression in keratinocytes is important for chronic skin inflammation. *Nature Communications*, **2018**, 9, 1420	17.4	45
86	Aggressiveness of non-EMT breast cancer cells relies on FBXO11 activity. *Molecular Cancer*, **2018**, 17, 171	42.1	11
85	The Role of Chromatin-Associated Proteins in Cancer. *Annual Review of Cancer Biology*, **2017**, 1, 355-377	13.3	6
84	EZH2 is a potential therapeutic target for H3K27M-mutant pediatric gliomas. *Nature Medicine*, **2017**, 23, 483-492	50.5	278
83	Maternal expression of the histone demethylase Kdm4a is crucial for pre-implantation development. *Development (Cambridge)*, **2017**, 144, 3264-3277	6.6	19
82	Oncohistones: drivers of pediatric cancers. *Genes and Development*, **2017**, 31, 2313-2324	12.6	56
81	Role of the Polycomb Repressive Complex 2 (PRC2) in Transcriptional Regulation and Cancer. *Cold Spring Harbor Perspectives in Medicine*, **2016**, 6,	5.4	99
80	ZFP57 maintains the parent-of-origin-specific expression of the imprinted genes and differentially affects non-imprinted targets in mouse embryonic stem cells. *Nucleic Acids Research*, **2016**, 44, 8165-78	20.1	38
79	Jmjd2/Kdm4 demethylases are required for expression of Il3ra and survival of acute myeloid leukemia cells. *Genes and Development*, **2016**, 30, 1278-88	12.6	51
78	Systems Level Analysis of Histone H3 Post-translational Modifications (PTMs) Reveals Features of PTM Crosstalk in Chromatin Regulation. *Molecular and Cellular Proteomics*, **2016**, 15, 2715-29	7.6	53

77	Optimizing sgRNA position markedly improves the efficiency of CRISPR/dCas9-mediated transcriptional repression. *Nucleic Acids Research*, **2016**, 44, e141	20.1	78
76	DNMT3A(R882H) mutant and Tet2 inactivation cooperate in the deregulation of DNA methylation control to induce lymphoid malignancies in mice. *Leukemia*, **2016**, 30, 1388-98	10.7	48
75	Continual removal of H3K9 promoter methylation by Jmjd2 demethylases is vital for ESC self-renewal and early development. *EMBO Journal*, **2016**, 35, 1550-64	13	64
74	Jarid2 binds mono-ubiquitylated H2A lysine 119 to mediate crosstalk between Polycomb complexes PRC1 and PRC2. *Nature Communications*, **2016**, 7, 13661	17.4	146
73	Role of TET enzymes in DNA methylation, development, and cancer. *Genes and Development*, **2016**, 30, 733-50	12.6	539
72	Regional tumour glutamine supply affects chromatin and cell identity. *Nature Cell Biology*, **2016**, 18, 1027-9	2.54	2
71	Maintaining cell identity: PRC2-mediated regulation of transcription and cancer. *Nature Reviews Cancer*, **2016**, 16, 803-810	31.3	251
70	The lncRNA MIR31HG regulates p16(INK4A) expression to modulate senescence. *Nature Communications*, **2015**, 6, 6967	17.4	126
69	Loss of TET2 in hematopoietic cells leads to DNA hypermethylation of active enhancers and induction of leukemogenesis. *Genes and Development*, **2015**, 29, 910-22	12.6	162
68	Tumor suppressor ASXL1 is essential for the activation of INK4B expression in response to oncogene activity and anti-proliferative signals. *Cell Research*, **2015**, 25, 1205-18	24.7	28
67	The histone demethylase Jarid1b is required for hematopoietic stem cell self-renewal in mice. *Blood*, **2015**, 125, 2075-8	2.2	35
66	SWI/SNF Subunits SMARCA4, SMARCD2 and DPF2 Collaborate in MLL-Rearranged Leukaemia Maintenance. *PLoS ONE*, **2015**, 10, e0142806	3.7	13
65	TET1: an epigenetic guardian of lymphomagenesis. *Nature Immunology*, **2015**, 16, 592-4	19.1	4
64	Epigenetic Regulation of Angiogenesis by JARID1B-Induced Repression of HOXA5. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1645-52	9.4	24
63	RSV-Induced H3K4 Demethylase KDM5B Leads to Regulation of Dendritic Cell-Derived Innate Cytokines and Exacerbates Pathogenesis In Vivo. *PLoS Pathogens*, **2015**, 11, e1004978	7.6	45
62	Jarid2 Is Implicated in the Initial Xist-Induced Targeting of PRC2 to the Inactive X Chromosome. *Molecular Cell*, **2014**, 53, 301-16	17.6	191
61	The demethylase JMJD2C localizes to H3K4me3-positive transcription start sites and is dispensable for embryonic development. *Molecular and Cellular Biology*, **2014**, 34, 1031-45	4.8	56
60	Middle-down hybrid chromatography/tandem mass spectrometry workflow for characterization of combinatorial post-translational modifications in histones. *Proteomics*, **2014**, 14, 2200-11	4.8	68

59	Gene silencing triggers polycomb repressive complex 2 recruitment to CpG islands genome wide. *Molecular Cell*, **2014**, 55, 347-60	17.6	296
58	Chromatin repressive complexes in stem cells, development, and cancer. *Cell Stem Cell*, **2014**, 14, 735-51	18	238
57	shRNA screening identifies JMJD1C as being required for leukemia maintenance. *Blood*, **2014**, 123, 1870-82	22	62
56	A screen identifies the oncogenic micro-RNA miR-378a-5p as a negative regulator of oncogene-induced senescence. *PLoS ONE*, **2014**, 9, e91034	3.7	14
55	The histone lysine demethylase JMJD3/KDM6B is recruited to p53 bound promoters and enhancer elements in a p53 dependent manner. *PLoS ONE*, **2014**, 9, e96545	3.7	51
54	Transcriptional regulation by Polycomb group proteins. *Nature Structural and Molecular Biology*, **2013**, 20, 1147-55	17.6	606
53	Chromatin proteins and modifications as drug targets. *Nature*, **2013**, 502, 480-8	50.4	345
52	Histone lysine demethylases as targets for anticancer therapy. *Nature Reviews Drug Discovery*, **2013**, 12, 917-30	64.1	347
51	Reduced H3K27me3 and DNA hypomethylation are major drivers of gene expression in K27M mutant pediatric high-grade gliomas. *Cancer Cell*, **2013**, 24, 660-72	24.3	478
50	Tet proteins connect the O-linked N-acetylglucosamine transferase Ogt to chromatin in embryonic stem cells. *Molecular Cell*, **2013**, 49, 645-56	17.6	231
49	Polycomb Cbx family members mediate the balance between haematopoietic stem cell self-renewal and differentiation. *Nature Cell Biology*, **2013**, 15, 353-62	23.4	165
48	Fbxl10/Kdm2b recruits polycomb repressive complex 1 to CpG islands and regulates H2A ubiquitylation. *Molecular Cell*, **2013**, 49, 1134-46	17.6	279
47	The histone demethylase Jarid1b ensures faithful mouse development by protecting developmental genes from aberrant H3K4me3. *PLoS Genetics*, **2013**, 9, e1003461	6	88
46	Genome-wide profiling identifies a DNA methylation signature that associates with TET2 mutations in diffuse large B-cell lymphoma. *Haematologica*, **2013**, 98, 1912-20	6.6	98
45	Utx is required for proper induction of ectoderm and mesoderm during differentiation of embryonic stem cells. *PLoS ONE*, **2013**, 8, e60020	3.7	65
44	Molecular mechanisms and potential functions of histone demethylases. *Nature Reviews Molecular Cell Biology*, **2012**, 13, 297-311	48.7	594
43	DNA methylation: TET proteins-guardians of CpG islands?. *EMBO Reports*, **2011**, 13, 28-35	6.5	236
42	TET1 and hydroxymethylcytosine in transcription and DNA methylation fidelity. *Nature*, **2011**, 473, 343-8	50.4	796

41	Jarid1b targets genes regulating development and is involved in neural differentiation. *EMBO Journal*, **2011**, 30, 4586-600	13	135
40	JARID2 regulates binding of the Polycomb repressive complex 2 to target genes in ES cells. *Nature*, **2010**, 464, 306-10	50.4	427
39	Polycomb complexes act redundantly to repress genomic repeats and genes. *Genes and Development*, **2010**, 24, 265-76	12.6	264
38	Characterization of an antagonistic switch between histone H3 lysine 27 methylation and acetylation in the transcriptional regulation of Polycomb group target genes. *Nucleic Acids Research* , **2010**, 38, 4958-69	20.1	251
37	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. *Molecular and Cellular Proteomics*, **2010**, 9, 838-50	7.6	107
36	NEK11: linking CHK1 and CDC25A in DNA damage checkpoint signaling. *Cell Cycle*, **2010**, 9, 450-5	4.7	26
35	A functional link between the histone demethylase PHF8 and the transcription factor ZNF711 in X-linked mental retardation. *Molecular Cell*, **2010**, 38, 165-78	17.6	162
34	Histone methyltransferases in cancer. *Seminars in Cell and Developmental Biology*, **2010**, 21, 209-20	7.5	228
33	Histone demethylases in development and disease. *Trends in Cell Biology*, **2010**, 20, 662-71	18.3	278
32	The H3K27me3 demethylase JMJD3 contributes to the activation of the INK4A-ARF locus in response to oncogene- and stress-induced senescence. *Genes and Development*, **2009**, 23, 1171-6	12.6	344
31	Human CDT1 associates with CDC7 and recruits CDC45 to chromatin during S phase. *Journal of Biological Chemistry*, **2009**, 284, 3028-3036	5.4	13
30	ATAD2 is a novel cofactor for MYC, overexpressed and amplified in aggressive tumors. *Cancer Research*, **2009**, 69, 8491-8	10.1	162
29	Isolation and characterization of DUSP11, a novel p53 target gene. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2158-2170	5.6	13
28	NEK11 regulates CDC25A degradation and the IR-induced G2/M checkpoint. *Nature Cell Biology*, **2009**, 11, 1247-53	23.4	99
27	Polycomb group proteins: navigators of lineage pathways led astray in cancer. *Nature Reviews Cancer*, **2009**, 9, 773-84	31.3	459
26	A model for transmission of the H3K27me3 epigenetic mark. *Nature Cell Biology*, **2008**, 10, 1291-300	23.4	558
25	The emerging functions of histone demethylases. *Current Opinion in Genetics and Development*, **2008**, 18, 159-68	4.9	182
24	Polycomb complex 2 is required for E-cadherin repression by the Snail1 transcription factor. *Molecular and Cellular Biology*, **2008**, 28, 4772-81	4.8	336

23	Bypass of senescence by the polycomb group protein CBX8 through direct binding to the INK4A-ARF locus. *EMBO Journal*, **2007**, 26, 1637-48	13	157
22	UTX and JMJD3 are histone H3K27 demethylases involved in HOX gene regulation and development. *Nature*, **2007**, 449, 731-4	50.4	975
21	Role of the polycomb repressive complex 2 in acute promyelocytic leukemia. *Cancer Cell*, **2007**, 11, 513-25	24.3	210
20	The Polycomb group proteins bind throughout the INK4A-ARF locus and are disassociated in senescent cells. *Genes and Development*, **2007**, 21, 525-30	12.6	668
19	The polycomb group protein Suz12 is required for embryonic stem cell differentiation. *Molecular and Cellular Biology*, **2007**, 27, 3769-79	4.8	549
18	RBP2 belongs to a family of demethylases, specific for tri-and dimethylated lysine 4 on histone 3. *Cell*, **2007**, 128, 1063-76	56.2	416
17	Genome-wide mapping of Polycomb target genes unravels their roles in cell fate transitions. *Genes and Development*, **2006**, 20, 1123-36	12.6	960
16	The putative oncogene GASC1 demethylates tri- and dimethylated lysine 9 on histone H3. *Nature*, **2006**, 442, 307-11	50.4	599
15	E2F1 is crucial for E2F-dependent apoptosis. *EMBO Reports*, **2005**, 6, 661-8	6.5	99
14	Suz12 is essential for mouse development and for EZH2 histone methyltransferase activity. *EMBO Journal*, **2004**, 23, 4061-71	13	670
13	E2F target genes: unraveling the biology. *Trends in Biochemical Sciences*, **2004**, 29, 409-17	10.3	433
12	EZH2 is downstream of the pRB-E2F pathway, essential for proliferation and amplified in cancer. *EMBO Journal*, **2003**, 22, 5323-35	13	894
11	E2F1-mediated transcriptional inhibition of the plasminogen activator inhibitor type 1 gene. *FEBS Journal*, **2001**, 268, 4969-78		18
10	Apaf-1 is a transcriptional target for E2F and p53. *Nature Cell Biology*, **2001**, 3, 552-8	23.4	503
9	APAF1 is a key transcriptional target for p53 in the regulation of neuronal cell death. *Journal of Cell Biology*, **2001**, 155, 207-16	7.3	166
8	The p53 tumour suppressor protein. *Biotechnology and Genetic Engineering Reviews*, **2000**, 17, 179-211	4.1	10
7	E2F activates late-G1 events but cannot replace E1A in inducing S phase in terminally differentiated skeletal muscle cells. *Oncogene*, **1999**, 18, 5054-62	9.2	19
6	Regulation of cell proliferation by the E2F transcription factors. *Biochemical Society Transactions*, **1999**, 27, A64-A64	5.1	

5	E2F-1-induced p53-independent apoptosis in transgenic mice. *Oncogene*, **1998**, 17, 143-55	9.2	114
4	E2F-6: a novel member of the E2F family is an inhibitor of E2F-dependent transcription. *Oncogene*, **1998**, 17, 611-23	9.2	167
3	Loss of the retinoblastoma protein-related p130 protein in small cell lung carcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 6933-8	11.5	107
2	TET2 binding to enhancers facilitates transcription factor recruitment in hematopoietic cells		2
1	Quantification of differential transcription factor activity and multiomics-based classification into activators and repressors:diffTF		3