

Luciano Di Croce

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126
papers

12,246
citations

50
h-index

110
g-index

144
ext. papers

14,459
ext. citations

12.8
avg. IF

6.34
L-index

#	Paper	IF	Citations
126	The Polycomb group protein EZH2 directly controls DNA methylation. <i>Nature</i> , 2006 , 439, 871-4	50.4	1721
125	Methyltransferase recruitment and DNA hypermethylation of target promoters by an oncogenic transcription factor. <i>Science</i> , 2002 , 295, 1079-82	33.3	695
124	Targeting metastasis-initiating cells through the fatty acid receptor CD36. <i>Nature</i> , 2017 , 541, 41-45	50.4	619
123	Transcriptional regulation by Polycomb group proteins. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1147-55	17.6	606
122	Demethylation of H3K27 regulates polycomb recruitment and H2A ubiquitination. <i>Science</i> , 2007 , 318, 447-50	33.3	591
121	3D structures of individual mammalian genomes studied by single-cell Hi-C. <i>Nature</i> , 2017 , 544, 59-64	50.4	485
120	Genome Regulation by Polycomb and Trithorax: 70 Years and Counting. <i>Cell</i> , 2017 , 171, 34-57	56.2	484
119	Landscape of somatic mutations and clonal evolution in mantle cell lymphoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18250-5	11.5	377
118	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
117	Myc represses transcription through recruitment of DNA methyltransferase corepressor. <i>EMBO Journal</i> , 2005 , 24, 336-46	13	335
116	DNA methylation of the gonadal aromatase (<i>cyp19a</i>) promoter is involved in temperature-dependent sex ratio shifts in the European sea bass. <i>PLoS Genetics</i> , 2011 , 7, e1002447	6	322
115	Oligomerization of RAR and AML1 transcription factors as a novel mechanism of oncogenic activation. <i>Molecular Cell</i> , 2000 , 5, 811-20	17.6	256
114	Nonoverlapping functions of the Polycomb group Cbx family of proteins in embryonic stem cells. <i>Cell Stem Cell</i> , 2012 , 10, 47-62	18	244
113	The circadian molecular clock creates epidermal stem cell heterogeneity. <i>Nature</i> , 2011 , 480, 209-14	50.4	226
112	Polycomb complexes in stem cells and embryonic development. <i>Development (Cambridge)</i> , 2013 , 140, 2525-34	6.6	218
111	Role of the polycomb repressive complex 2 in acute promyelocytic leukemia. <i>Cancer Cell</i> , 2007 , 11, 513-25	24.3	210
110	Regulation of gene transcription by Polycomb proteins. <i>Science Advances</i> , 2015 , 1, e1500737	14.3	199

109	Roles of the Polycomb group proteins in stem cells and cancer. <i>Cell Death and Disease</i> , 2011 , 2, e204	9.8	194
108	Phf19 links methylated Lys36 of histone H3 to regulation of Polycomb activity. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1257-65	17.6	172
107	RYBP and Cbx7 define specific biological functions of polycomb complexes in mouse embryonic stem cells. <i>Cell Reports</i> , 2013 , 3, 60-9	10.6	148
106	The histone variant macroH2A is an epigenetic regulator of key developmental genes. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 1074-9	17.6	148
105	The dynamic interactome and genomic targets of Polycomb complexes during stem-cell differentiation. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 682-690	17.6	131
104	Dnmt3a and Dnmt3b Associate with Enhancers to Regulate Human Epidermal Stem Cell Homeostasis. <i>Cell Stem Cell</i> , 2016 , 19, 491-501	18	121
103	Chromatin structure and epigenetics. <i>Biochemical Pharmacology</i> , 2006 , 72, 1563-9	6	115
102	Two-step synergism between the progesterone receptor and the DNA-binding domain of nuclear factor 1 on MMTV minichromosomes. <i>Molecular Cell</i> , 1999 , 4, 45-54	17.6	110
101	Regulation of human epidermal stem cell proliferation and senescence requires polycomb-dependent and -independent functions of Cbx4. <i>Cell Stem Cell</i> , 2011 , 9, 233-46	18	102
100	Transcriptional activation of polycomb-repressed genes by ZRF1. <i>Nature</i> , 2010 , 468, 1124-8	50.4	102
99	Polycomb Regulates Mesoderm Cell Fate-Specification in Embryonic Stem Cells through Activation and Repression Mechanisms. <i>Cell Stem Cell</i> , 2015 , 17, 300-15	18	97
98	MBD3, a component of the NuRD complex, facilitates chromatin alteration and deposition of epigenetic marks. <i>Molecular and Cellular Biology</i> , 2008 , 28, 5912-23	4.8	94
97	The Dynamic Regulatory Genome of Capsaspora and the Origin of Animal Multicellularity. <i>Cell</i> , 2016 , 165, 1224-1237	56.2	92
96	Recruitment of the histone methyltransferase SUV39H1 and its role in the oncogenic properties of the leukemia-associated PML-retinoic acid receptor fusion protein. <i>Molecular and Cellular Biology</i> , 2006 , 26, 1288-96	4.8	87
95	The methyl-CpG binding protein MBD1 is required for PML-RARalpha function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1400-5	11.5	85
94	EPOP Functionally Links Elongin and Polycomb in Pluripotent Stem Cells. <i>Molecular Cell</i> , 2016 , 64, 645-658	8.6	81
93	MacroH2A1 regulates the balance between self-renewal and differentiation commitment in embryonic and adult stem cells. <i>Molecular and Cellular Biology</i> , 2012 , 32, 1442-52	4.8	78
92	Transcription Factors Drive Tet2-Mediated Enhancer Demethylation to Reprogram Cell Fate. <i>Cell Stem Cell</i> , 2018 , 23, 727-741.e9	18	78

91	Heterochromatic gene repression of the retinoic acid pathway in acute myeloid leukemia. <i>Blood</i> , 2007 , 109, 4432-40	2.2	75
90	A Family of Vertebrate-Specific Polycombs Encoded by the LCOR/LCORL Genes Balance PRC2 Subtype Activities. <i>Molecular Cell</i> , 2018 , 70, 408-421.e8	17.6	73
89	Genome-wide activity of unliganded estrogen receptor- α in breast cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4892-7	11.5	64
88	Promoter bivalency favors an open chromatin architecture in embryonic stem cells. <i>Nature Genetics</i> , 2018 , 50, 1452-1462	36.3	63
87	Histone H1 enhances synergistic activation of the MMTV promoter in chromatin. <i>EMBO Journal</i> , 2003 , 22, 588-99	13	62
86	Pluripotency and Epigenetic Factors in Mouse Embryonic Stem Cell Fate Regulation. <i>Molecular and Cellular Biology</i> , 2015 , 35, 2716-28	4.8	60
85	Lysyl oxidase-like 2 deaminates lysine 4 in histone H3. <i>Molecular Cell</i> , 2012 , 46, 369-76	17.6	60
84	Jarid2 regulates mouse epidermal stem cell activation and differentiation. <i>EMBO Journal</i> , 2011 , 30, 3635-46	14.6	58
83	Emerging roles for Polycomb proteins in cancer. <i>Current Opinion in Genetics and Development</i> , 2016 , 36, 50-8	4.9	58
82	Role of PRC2-associated factors in stem cells and disease. <i>FEBS Journal</i> , 2015 , 282, 1723-35	5.7	56
81	Polycomb in stem cells: PRC1 branches out. <i>Cell Stem Cell</i> , 2012 , 11, 16-21	18	56
80	Chromatin and RNA Maps Reveal Regulatory Long Noncoding RNAs in Mouse. <i>Molecular and Cellular Biology</i> , 2015 , 36, 809-19	4.8	55
79	Chromatin modifying activity of leukaemia associated fusion proteins. <i>Human Molecular Genetics</i> , 2005 , 14 Spec No 1, R77-84	5.6	54
78	Not All H3K4 Methylations Are Created Equal: Mll2/COMPASS Dependency in Primordial Germ Cell Specification. <i>Molecular Cell</i> , 2017 , 65, 460-475.e6	17.6	53
77	Interaction of endocannabinoid system and steroid hormones in the control of colon cancer cell growth. <i>Journal of Cellular Physiology</i> , 2012 , 227, 250-8	7	50
76	A phosphorylation switch regulates the transcriptional activation of cell cycle regulator p21 by histone deacetylase inhibitors. <i>Journal of Biological Chemistry</i> , 2010 , 285, 41062-73	5.4	50
75	The Bivalent Genome: Characterization, Structure, and Regulation. <i>Trends in Genetics</i> , 2020 , 36, 118-131	8.5	49
74	PLK1 signaling in breast cancer cells cooperates with estrogen receptor-dependent gene transcription. <i>Cell Reports</i> , 2013 , 3, 2021-32	10.6	45

73	Histone demethylase JARID1C inactivation triggers genomic instability in sporadic renal cancer. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4625-37	15.9	42
72	Independent behavior of rat liver LDL receptor and HMGCoA reductase under estrogen treatment. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 224, 345-50	3.4	41
71	ERalpha as ligand-independent activator of CDH-1 regulates determination and maintenance of epithelial morphology in breast cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7420-5	11.5	39
70	miR-155 harnesses Phf19 to potentiate cancer immunotherapy through epigenetic reprogramming of CD8 T cell fate. <i>Nature Communications</i> , 2019 , 10, 2157	17.4	36
69	Lysyl oxidase-like 2 (LOXL2) oxidizes trimethylated lysine 4 in histone H3. <i>FEBS Journal</i> , 2016 , 283, 4263-4273	4.7	36
68	From oncogene to tumor suppressor: the dual role of Myc in leukemia. <i>Cell Cycle</i> , 2012 , 11, 1757-64	4.7	35
67	Abl-kinase-sensitive levels of ERK5 and its intrinsic basal activity contribute to leukaemia cell survival. <i>EMBO Reports</i> , 2005 , 6, 63-9	6.5	35
66	Lamin B1 mapping reveals the existence of dynamic and functional euchromatin lamin B1 domains. <i>Nature Communications</i> , 2018 , 9, 3420	17.4	34
65	Polycomb complexes in normal and malignant hematopoiesis. <i>Journal of Cell Biology</i> , 2019 , 218, 55-69	7.3	34
64	PML4 induces differentiation by Myc destabilization. <i>Oncogene</i> , 2007 , 26, 3415-22	9.2	33
63	Chromatin-bound Irf1 regulates a subset of polycomb target genes in differentiation and cancer. <i>Cancer Cell</i> , 2013 , 24, 151-66	24.3	32
62	E-box-independent regulation of transcription and differentiation by MYC. <i>Nature Cell Biology</i> , 2011 , 13, 1443-9	23.4	31
61	Approaching the molecular and physiological function of macroH2A variants. <i>Epigenetics</i> , 2010 , 5, 118-23	3.7	31
60	The promoter of the rat 3-hydroxy-3-methylglutaryl coenzyme A reductase gene contains a tissue-specific estrogen-responsive region. <i>Molecular Endocrinology</i> , 1999 , 13, 1225-36		30
59	Assembly of MMTV promoter minichromosomes with positioned nucleosomes precludes NF1 access but not restriction enzyme cleavage. <i>Nucleic Acids Research</i> , 1998 , 26, 3657-66	20.1	29
58	Engaging chromatin: PRC2 structure meets function. <i>British Journal of Cancer</i> , 2020 , 122, 315-328	8.7	27
57	The DNA demethylating agent decitabine activates the TRAIL pathway and induces apoptosis in acute myeloid leukemia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 114-20	6.9	25
56	Zrf1 is required to establish and maintain neural progenitor identity. <i>Genes and Development</i> , 2014 , 28, 182-97	12.6	24

55	Epigenetic gene silencing in acute promyelocytic leukemia. <i>Biochemical Pharmacology</i> , 2004 , 68, 1247-54		24
54	ZRF1 controls oncogene-induced senescence through the INK4-ARF locus. <i>Oncogene</i> , 2013 , 32, 2161-8	9.2	22
53	ZRF1: a novel epigenetic regulator of stem cell identity and cancer. <i>Cell Cycle</i> , 2015 , 14, 510-5	4.7	22
52	DPY30 regulates pathways in cellular senescence through ID protein expression. <i>EMBO Journal</i> , 2013 , 32, 2217-30	13	22
51	The Polycomb group protein CBX6 is an essential regulator of embryonic stem cell identity. <i>Nature Communications</i> , 2017 , 8, 1235	17.4	21
50	VAV3 mediates resistance to breast cancer endocrine therapy. <i>Breast Cancer Research</i> , 2014 , 16, R53	8.3	21
49	Role of UTX in retinoic acid receptor-mediated gene regulation in leukemia. <i>Molecular and Cellular Biology</i> , 2014 , 34, 3765-75	4.8	20
48	Epigenetics and senescence: learning from the INK4-ARF locus. <i>Biochemical Pharmacology</i> , 2011 , 82, 1361-70	6	20
47	Chromatin capture links the metabolic enzyme AHCY to stem cell proliferation. <i>Science Advances</i> , 2019 , 5, eaav2448	14.3	19
46	Direct interaction between Id1 and Zrf1 controls neural differentiation of embryonic stem cells. <i>EMBO Reports</i> , 2015 , 16, 63-70	6.5	19
45	The role of Polycomb in stem cell genome architecture. <i>Current Opinion in Cell Biology</i> , 2016 , 43, 87-95	9	19
44	Dynamics of epigenetic modifications in leukemia. <i>Briefings in Functional Genomics</i> , 2011 , 10, 18-29	4.9	18
43	Altered epigenetic signals in human disease. <i>Cancer Biology and Therapy</i> , 2004 , 3, 831-7	4.6	18
42	ZRF1 controls the retinoic acid pathway and regulates leukemogenic potential in acute myeloid leukemia. <i>Oncogene</i> , 2014 , 33, 5501-10	9.2	17
41	Combinatorial assembly and function of chromatin regulatory complexes. <i>Epigenomics</i> , 2011 , 3, 567-80	4.4	16
40	Setting and resetting of epigenetic marks in malignant transformation and development. <i>BioEssays</i> , 2010 , 32, 669-79	4.1	16
39	Mutations and deletions of PRC2 in prostate cancer. <i>BioEssays</i> , 2016 , 38, 446-54	4.1	15
38	Effects of the acute myeloid leukemia--associated fusion proteins on nuclear architecture. <i>Seminars in Hematology</i> , 2001 , 38, 42-53	4	15

37	PHF13 is a molecular reader and transcriptional co-regulator of H3K4me2/3. <i>ELife</i> , 2016 , 5,	8.9	15
36	Effects of the acute myeloid leukemia[mdash]associated fusion proteins on nuclear architecture. <i>Seminars in Hematology</i> , 2001 , 38, 42-53	4	13
35	GATA2 Promotes Hematopoietic Development and Represses Cardiac Differentiation of Human Mesoderm. <i>Stem Cell Reports</i> , 2019 , 13, 515-529	8	12
34	Transcriptional regulation of Sox2 by the retinoblastoma family of pocket proteins. <i>Oncotarget</i> , 2015 , 6, 2992-3002	3.3	12
33	PHF19 mediated regulation of proliferation and invasiveness in prostate cancer cells. <i>ELife</i> , 2020 , 9,	8.9	12
32	The flip side of the coin: role of ZRF1 and histone H2A ubiquitination in transcriptional activation. <i>Cell Cycle</i> , 2011 , 10, 745-50	4.7	10
31	Independent responsiveness of frog liver low-density lipoprotein receptor and HMGCoA reductase to estrogen treatment. <i>Pflugers Archiv European Journal of Physiology</i> , 1997 , 435, 107-11	4.6	10
30	The Polycomb-associated factor PHF19 controls hematopoietic stem cell state and differentiation. <i>Science Advances</i> , 2020 , 6, eabb2745	14.3	10
29	Polycomb regulates NF- κ B signaling in cancer through miRNA. <i>Cancer Cell</i> , 2012 , 21, 5-7	24.3	9
28	Neuron type-specific increase in lamin B1 contributes to nuclear dysfunction in Huntington's disease. <i>EMBO Molecular Medicine</i> , 2021 , 13, e12105	12	9
27	RING1B recruits EWSR1-FLI1 and cooperates in the remodeling of chromatin necessary for Ewing sarcoma tumorigenesis. <i>Science Advances</i> , 2020 , 6,	14.3	8
26	Rapid purification of intact minichromosomes over a glycerol cushion. <i>Nucleic Acids Research</i> , 1999 , 27, e11	20.1	7
25	Nuclear lamina assembly in the first cell cycle of rat liver regeneration. <i>Journal of Cellular Physiology</i> , 1997 , 171, 135-42	7	6
24	Characterization of the response of growth and differentiation to lipoproteins and agents affecting cholesterol metabolism in murine neuroblastoma cells. <i>International Journal of Developmental Neuroscience</i> , 1994 , 12, 77-84	2.7	6
23	Functional and Pathological Roles of AHCY. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 654344	5.7	6
22	Estrogen stimulates intracellular traffic in the liver of <i>Rana esculenta</i> complex by modifying Rab protein content. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 251, 301-6	3.4	5
21	HDAC1, a novel marker for benign teratomas. <i>EMBO Journal</i> , 2010 , 29, 3893-5	13	4
20	Regulating the shuttling of eukaryotic RNA polymerase II. <i>Molecular and Cellular Biology</i> , 2011 , 31, 3918-28	4.8	4

19	K313dup is a recurrent CEBPA mutation in de novo acute myeloid leukemia (AML). <i>Annals of Hematology</i> , 2008 , 87, 819-27	3	4
18	Trans-generational epigenetic regulation associated with the amelioration of Duchenne Muscular Dystrophy. <i>EMBO Molecular Medicine</i> , 2020 , 12, e12063	12	4
17	Live-cell 3D single-molecule tracking reveals how NuRD modulates enhancer dynamics		4
16	Chromatin and Epigenetics at the Forefront: Finding Clues among Peaks. <i>Molecular and Cellular Biology</i> , 2016 , 36, 2432-9	4.8	3
15	Glucocorticoid-induced apoptosis: a simple set of laboratory experiments. <i>Biochemistry and Molecular Biology Education</i> , 2000 , 28, 307-312	1.3	3
14	Polycomb Factor PHF19 Controls Cell Growth and Differentiation Toward Erythroid Pathway in Chronic Myeloid Leukemia Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 655201	5.7	3
13	The changing chromatinome as a driver of disease: A panoramic view from different methodologies. <i>BioEssays</i> , 2020 , 42, e2000203	4.1	2
12	Chromatin-Bound Proteome Profiling by Genome Capture. <i>STAR Protocols</i> , 2020 , 1, 100014	1.4	2
11	RNA closing the Polycomb circle. <i>Nature Genetics</i> , 2020 , 52, 866-867	36.3	2
10	SpikChIP: a novel computational methodology to compare multiple ChIP-seq using spike-in chromatin. <i>NAR Genomics and Bioinformatics</i> , 2021 , 3, lqab064	3.7	2
9	Polycomb-dependent control of cell fate in adult tissue. <i>EMBO Journal</i> , 2016 , 35, 2268-2269	13	2
8	CHD4 ensures stem cell lineage fidelity during skeletal muscle regeneration. <i>Stem Cell Reports</i> , 2021 , 16, 2089-2098	8	2
7	Barcelona conference on epigenetics and cancer 2015: Coding and non-coding functions of the genome. <i>Epigenetics</i> , 2016 , 11, 95-100	5.7	1
6	Epigenomic profiling of primate lymphoblastoid cell lines reveals the evolutionary patterns of epigenetic activities in gene regulatory architectures. <i>Nature Communications</i> , 2021 , 12, 3116	17.4	1
5	Differential contribution to gene expression prediction of histone modifications at enhancers or promoters. <i>PLoS Computational Biology</i> , 2021 , 17, e1009368	5	0
4	Productive visualization of high-throughput sequencing data using the SeqCode open portable platform. <i>Scientific Reports</i> , 2021 , 11, 19545	4.9	0
3	The pluripotent cell cycle 2020 , 115-129		
2	Analysis of Endogenous Protein Interactions of Polycomb Group of Proteins in Mouse Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2016 , 1480, 153-65	1.4	

- 1 Polycomb complexes in MLLAF9-related leukemias. *Current Opinion in Genetics and Development*, **2022**, 75, 101920 4.9