Stuart Orkin

List of Publications by Year
in descending order

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217 papers	37,589 citations	4955 84 h-index	3102 187 g-index
226 all docs	226 docs citations	226 times ranked	39273 citing authors

#	Article	IF	Citations
1	Hematopoiesis: An Evolving Paradigm for Stem Cell Biology. Cell, 2008, 132, 631-644.	13.5	2,061
2	A comparative encyclopedia of DNA elements in the mouse genome. Nature, 2014, 515, 355-364.	13.7	1,444
3	An early haematopoietic defect in mice lacking the transcription factor GATA-2. Nature, 1994, 371, 221-226.	13.7	1,314
4	Erythroid differentiation in chimaeric mice blocked by a targeted mutation in the gene for transcription factor GATA-1. Nature, 1991, 349, 257-260.	13.7	1,291
5	Homozygous deletion in Wilms tumours of a zinc-finger gene identified by chromosome jumping. Nature, 1990, 343, 774-778.	13.7	1,279
6	Mapping the Mouse Cell Atlas by Microwell-Seq. Cell, 2018, 172, 1091-1107.e17.	13.5	1,068
7	Linkage of Î²-thalassaemia mutations and Î²-globin gene polymorphisms with DNA polymorphisms in human Î²-globin gene cluster. Nature, 1982, 296, 627-631.	13.7	963
8	Cloning of cDNA for the major DNA-binding protein of the erythroid lineage through expression in mammalian cells. Nature, 1989, 339, 446-451.	13.7	941
9	Absence of blood formation in mice lacking the T-cell leukaemia oncoprotein tal-1/SCL. Nature, 1995, 373, 432-434.	13.7	880
10	Mouse model of Xâ€“linked chronic granulomatous disease, an inherited defect in phagocyte superoxide production. Nature Genetics, 1995, 9, 202-209.	9.4	846
11	Cloning the gene for an inherited human disorderâ€”chronic granulomatous diseaseâ€”on the basis of its chromosomal location. Nature, 1986, 322, 32-38.	13.7	833
12	Human Fetal Hemoglobin Expression Is Regulated by the Developmental Stage-Specific Repressor BCL11A. Science, 2008, 322, 1839-1842.	6.0	759
13	BCL11A enhancer dissection by Cas9-mediated in situ saturating mutagenesis. Nature, 2015, 527, 192-197.	13.7	726
14	Erythroid transcription factor NF-E2 is a haematopoietic-specific basicâ€“leucine zipper protein. Nature, 1993, 362, 722-728.	13.7	641
15	High-fat diet enhances stemness and tumorigenicity of intestinal progenitors. Nature, 2016, 531, 53-58.	13.7	602
16	Genome-wide association study shows BCL11A associated with persistent fetal hemoglobin and amelioration of the phenotype of Î²-thalassemia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1620-1625.	3.3	561
17	The E2F1â€“3 transcription factors are essential for cellular proliferation. Nature, 2001, 414, 457-462.	13.7	545
18	Transcriptional regulation of erythropoiesis: an affair involving multiple partners. Oncogene, 2002, 21, 3368-3376.	2.6	534

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19	An Erythroid Enhancer of BCL11A Subject to Genetic Variation Determines Fetal Hemoglobin Level. Science, 2013, 342, 253-257.	6.0	518
20	DNA polymorphisms at the BCL11A , HBS1L-MYB , and Î²- globin loci associate with fetal hemoglobin levels and pain crises in sickle cell disease. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11869-11874.	3.3	510
21	Globin gene regulation and switching: Circa 1990. Cell, 1990, 63, 665-672.	13.5	497
22	Plasma and cytoplasmic gelsolins are encoded by a single gene and contain a duplicated actin-binding domain. Nature, 1986, 323, 455-458.	13.7	484
23	Expression of an erythroid transcription factor in megakaryocytic and mast cell lineages. Nature, 1990, 344, 444-447.	13.7	482
24	Familial dyserythropoietic anaemia and thrombocytopenia due to an inherited mutation in GATA1. Nature Genetics, 2000, 24, 266-270.	9.4	474
25	Development of homozygosity for chromosome 11p markers in Wilms' tumour. Nature, 1984, 309, 172-174.	13.7	418
26	Analyzing CRISPR genome-editing experiments with CRISPResso. Nature Biotechnology, 2016, 34, 695-697.	9.4	410
27	The glycoprotein encoded by the X-linked chronic granulomatous disease locus is a component of the neutrophil cytochrome b complex. Nature, 1987, 327, 717-720.	13.7	385
28	Chromatin Connections to Pluripotency and Cellular Reprogramming. Cell, 2011, 145, 835-850.	13.5	356
29	MAnorm: a robust model for quantitative comparison of ChIP-Seq data sets. Genome Biology, 2012, 13, R16.	13.9	355
30	Complementary genomic approaches highlight the PI3K/mTOR pathway as a common vulnerability in osteosarcoma. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5564-73.	3.3	355
31	A genome-wide RNAi screen identifies a new transcriptional module required for self-renewal. Genes and Development, 2009, 23, 837-848.	2.7	354
32	Developmental and species-divergent globin switching are driven by BCL11A. Nature, 2009, 460, 1093-1097.	13.7	339
33	GATA-1 and Erythropoietin Cooperate to Promote Erythroid Cell Survival by Regulating bcl-xL Expression. Blood, 1999, 94, 87-96.	0.6	338
34	SWI/SNF-mutant cancers depend on catalytic and non-catalytic activity of EZH2. Nature Medicine, 2015, 21, 1491-1496.	15.2	334
35	Direct Promoter Repression by BCL11A Controls the Fetal to Adult Hemoglobin Switch. Cell, 2018, 173, 430-442.e17.	13.5	328
36	Characterization of Genomic Deletion Efficiency Mediated by Clustered Regularly Interspaced Palindromic Repeats (CRISPR)/Cas9 Nuclease System in Mammalian Cells*. Journal of Biological Chemistry, 2014, 289, 21312-21324.	1.6	309

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37	Transcriptional silencing of Î³-globin by BCL11A involves long-range interactions and cooperation with SOX6. Genes and Development, 2010, 24, 783-798.	2.7	304
38	Increased Î³-globin expression in a nondeletion HPFH mediated by an erythroid-specif ic DNA-binding factor. Nature, 1989, 338, 435-438.	13.7	303
39	Abnormal RNA processing due to the exon mutation of Î²E-globin gene. Nature, 1982, 300, 768-769.	13.7	302
40	Gonadal differentiation, sex determination and normalSryexpression in mice require direct interaction between transcription partners GATA4 and FOG2. Development (Cambridge), 2002, 129, 4627-4634.	1.2	302
41	Cultured human endothelial cells express platelet-derived growth factor B chain: cDNA cloning and structural analysis. Nature, 1985, 316, 748-750.	13.7	291
42	Reprogramming Committed Murine Blood Cells to Induced Hematopoietic Stem Cells with Defined Factors. Cell, 2014, 157, 549-564.	13.5	290
43	Correction of Sickle Cell Disease in Adult Mice by Interference with Fetal Hemoglobin Silencing. Science, 2011, 334, 993-996.	6.0	281
44	Polycomb Repressive Complex 2 Regulates Normal Hematopoietic Stem Cell Function in a Developmental-Stage-Specific Manner. Cell Stem Cell, 2014, 14, 68-80.	5.2	275
45	Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin. Science, 2016, 351, 285-289.	6.0	260
46	Challenges and emerging directions in single-cell analysis. Genome Biology, 2017, 18, 84.	3.8	258
47	Rescue of erythroid development in gene targeted GATAâ€“1â^' mouse embryonic stem cells. Nature Genetics, 1992, 1, 92-98.	9.4	255
48	Transcription control by the ENL YEATS domain in acute leukaemia. Nature, 2017, 543, 270-274.	13.7	248
49	Opposing Roles for the lncRNA Haunt and Its Genomic Locus in Regulating HOXA Gene Activation during Embryonic Stem Cell Differentiation. Cell Stem Cell, 2015, 16, 504-516.	5.2	247
50	Association of a Ras-related protein with cytochrome b of human neutrophils. Nature, 1989, 342, 198-200.	13.7	244
51	Mouse regulatory DNA landscapes reveal global principles of cis-regulatory evolution. Science, 2014, 346, 1007-1012.	6.0	244
52	Fine-mapping at three loci known to affect fetal hemoglobin levels explains additional genetic variation. Nature Genetics, 2010, 42, 1049-1051.	9.4	243
53	Isolation of cDNA clones encoding the 20K T3 glycoprotein of human T-cell receptor complex. Nature, 1984, 312, 413-418.	13.7	238
54	Hematopoiesis and stem cells: plasticity versus developmental heterogeneity. Nature Immunology, 2002, 3, 323-328.	7.0	234

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55	The Public Repository of Xenografts Enables Discovery and Randomized Phase II-like Trials in Mice. Cancer Cell, 2016, 29, 574-586.	7.7	227
56	Human CCAAT displacement protein is homologous to the Drosophila homeoprotein, cut. Nature Genetics, 1992, 1, 50-55.	9.4	216
57	Inflammatory signaling regulates embryonic hematopoietic stem and progenitor cell production. Genes and Development, 2014, 28, 2597-2612.	2.7	214
58	Dynamic Control of Enhancer Repertoires Drives Lineage and Stage-Specific Transcription during Hematopoiesis. Developmental Cell, 2016, 36, 9-23.	3.1	204
59	Corepressor-dependent silencing of fetal hemoglobin expression by BCL11A. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6518-6523.	3.3	189
60	MicroRNA-15a and -16-1 act via MYB to elevate fetal hemoglobin expression in human trisomy 13. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1519-1524.	3.3	186
61	Dissecting super-enhancer hierarchy based on chromatin interactions. Nature Communications, 2018, 9, 943.	5.8	179
62	An Engineered CRISPR-Cas9 Mouse Line for Simultaneous Readout of Lineage Histories and Gene Expression Profiles in Single Cells. Cell, 2020, 181, 1410-1422.e27.	13.5	172
63	Live-animal imaging of native haematopoietic stem and progenitor cells. Nature, 2020, 578, 278-283.	13.7	171
64	A Functional Element Necessary for Fetal Hemoglobin Silencing. New England Journal of Medicine, 2011, 365, 807-814.	13.9	161
65	Transcription Factor GATA-2 Is Required for Proliferation/Survival of Early Hematopoietic Cells and Mast Cell Formation, But Not for Erythroid and Myeloid Terminal Differentiation. Blood, 1997, 89, 3636-3643.	0.6	159
66	Genetic treatment of a molecular disorder: gene therapy approaches to sickle cell disease. Blood, 2016, 127, 839-848.	0.6	138
67	Ezh2 regulates differentiation and function of natural killer cells through histone methyltransferase activity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15988-15993.	3.3	131
68	Use of in vivo biotinylation to study proteinâ€“protein and proteinâ€“DNA interactions in mouse embryonic stem cells. Nature Protocols, 2009, 4, 506-517.	5.5	129
69	Lineage-specific BCL11A knockdown circumvents toxicities and reverses sickle phenotype. Journal of Clinical Investigation, 2016, 126, 3868-3878.	3.9	129
70	Generation of Genomic Deletions in Mammalian Cell Lines via CRISPR/Cas9. Journal of Visualized Experiments, 2015, , e52118.	0.2	123
71	Functional footprinting of regulatory DNA. Nature Methods, 2015, 12, 927-930.	9.0	123
72	BCL11A deletions result in fetal hemoglobin persistence and neurodevelopmental alterations. Journal of Clinical Investigation, 2015, 125, 2363-2368.	3.9	122

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73	Developmental Control of Polycomb Subunit Composition by GATA Factors Mediates a Switch to Non-Canonical Functions. Molecular Cell, 2015, 57, 304-316.	4.5	119
74	Embryonic stem cell-specific signatures in cancer: insights into genomic regulatory networks and implications for medicine. Genome Medicine, 2011, 3, 75.	3.6	112
75	Distinct and Combinatorial Functions of Jmjd2b/Kdm4b and Jmjd2c/Kdm4c in Mouse Embryonic Stem Cell Identity. Molecular Cell, 2014, 53, 32-48.	4.5	112
76	The Polycomb-Dependent Epigenome Controls Î² Cell Dysfunction, Dedifferentiation, and Diabetes. Cell Metabolism, 2018, 27, 1294-1308.e7.	7.2	109
77	Recent progress in understanding and manipulating haemoglobin switching for the haemoglobinopathies. British Journal of Haematology, 2018, 180, 630-643.	1.2	107
78	miRNA-embedded shRNAs for Lineage-specific BCL11A Knockdown and Hemoglobin F Induction. Molecular Therapy, 2015, 23, 1465-1474.	3.7	101
79	Loss of Ezh2 synergizes with JAK2-V617F in initiating myeloproliferative neoplasms and promoting myelofibrosis. Journal of Experimental Medicine, 2016, 213, 1479-1496.	4.2	101
80	Acquired Tissue-Specific Promoter Bivalency Is a Basis for PRC2 Necessity in Adult Cells. Cell, 2016, 165, 1389-1400.	13.5	101
81	Genome-wide CRISPR-Cas9 Screen Identifies Leukemia-Specific Dependence on a Pre-mRNA Metabolic Pathway Regulated by DCPS. Cancer Cell, 2018, 33, 386-400.e5.	7.7	99
82	Polycomb Repressive Complex 2 Is a Barrier to KRAS-Driven Inflammation and Epithelial-Mesenchymal Transition in Non-Small-Cell Lung Cancer. Cancer Cell, 2016, 29, 17-31.	7.7	96
83	Variant-aware saturating mutagenesis using multiple Cas9 nucleases identifies regulatory elements at trait-associated loci. Nature Genetics, 2017, 49, 625-634.	9.4	96
84	Human genetic variation alters CRISPR-Cas9 on- and off-targeting specificity at therapeutically implicated loci. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11257-E11266.	3.3	96
85	Hemoglobin switching's surprise: the versatile transcription factor BCL11A is a master repressor of fetal hemoglobin. Current Opinion in Genetics and Development, 2015, 33, 62-70.	1.5	94
86	Transcription factor GATA‐1 in megakaryocyte development. Stem Cells, 1998, 16, 79-83.	1.4	91
87	Emerging Genetic Therapy for Sickle Cell Disease. Annual Review of Medicine, 2019, 70, 257-271.	5.0	90
88	Distinct Domains of the GATA-1 Cofactor FOG-1 Differentially Influence Erythroid versus Megakaryocytic Maturation. Molecular and Cellular Biology, 2002, 22, 4268-4279.	1.1	89
89	BORIS promotes chromatin regulatory interactions in treatment-resistant cancer cells. Nature, 2019, 572, 676-680.	13.7	89
90	Myeloproliferative neoplasms can be initiated from a single hematopoietic stem cell expressing JAK2-V617F. Journal of Experimental Medicine, 2014, 211, 2213-2230.	4.2	88

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91	Bcl11a Deficiency Leads to Hematopoietic Stem Cell Defects with an Aging-like Phenotype. Cell Reports, 2016, 16, 3181-3194.	2.9	85
92	Rational targeting of a NuRD subcomplex guided by comprehensive in situ mutagenesis. Nature Genetics, 2019, 51, 1149-1159.	9.4	83
93	CUT&RUNTools: a flexible pipeline for CUT&RUN processing and footprint analysis. Genome Biology, 2019, 20, 192.	3.8	83
94	Friend of GATA-1 Represses GATA-3â€“dependent Activity in CD4+ T Cells. Journal of Experimental Medicine, 2001, 194, 1461-1471.	4.2	82
95	Partial deletion of the Î±-globin structural gene in human Î±-thalassaemia. Nature, 1980, 286, 538-540.	13.7	79
96	EHMT1 and EHMT2 inhibition induces fetal hemoglobin expression. Blood, 2015, 126, 1930-1939.	0.6	76
97	Serum-Based Culture Conditions Provoke Gene Expression Variability in Mouse Embryonic Stem Cells as Revealed by Single-Cell Analysis. Cell Reports, 2016, 14, 956-965.	2.9	73
98	Control of human hemoglobin switching by LIN28B-mediated regulation of BCL11A translation. Nature Genetics, 2020, 52, 138-145.	9.4	73
99	Chronic Myelogenous Leukemiaâ€“ Initiating Cells Require Polycomb Group Protein EZH2. Cancer Discovery, 2016, 6, 1237-1247.	7.7	72
100	Integrated design, execution, and analysis of arrayed and pooled CRISPR genome-editing experiments. Nature Protocols, 2018, 13, 946-986.	5.5	70
101	Regulation of embryonic haematopoietic multipotency by EZH1. Nature, 2018, 553, 506-510.	13.7	70
102	Single-Cell Analysis Identifies LY6D as a Marker Linking Castration-Resistant Prostate Luminal Cells to Prostate Progenitors and Cancer. Cell Reports, 2018, 25, 3504-3518.e6.	2.9	70
103	Single-Cell Transcript Profiles Reveal Multilineage Priming in Early Progenitors Derived from Lgr5 + Intestinal Stem Cells. Cell Reports, 2016, 16, 2053-2060.	2.9	69
104	Regulation of the Serum Concentration of Thrombopoietin in Thrombocytopenic NF-E2 Knockout Mice. Blood, 1997, 90, 1821-1827.	0.6	68
105	Dietary suppression of MHC class II expression in intestinal epithelial cells enhances intestinal tumorigenesis. Cell Stem Cell, 2021, 28, 1922-1935.e5.	5.2	67
106	Early pre-B cells from normal and X-linked agammaglobulinaemia produce CÎ¼ without an attached VH region. Nature, 1983, 304, 355-358.	13.7	65
107	Ezh2 Controls an Early Hematopoietic Program and Growth and Survival Signaling in Early T Cell Precursor Acute Lymphoblastic Leukemia. Cell Reports, 2016, 14, 1953-1965.	2.9	65
108	Extensive Recovery of Embryonic Enhancer and Gene Memory Stored in Hypomethylated Enhancer DNA. Molecular Cell, 2019, 74, 542-554.e5.	4.5	65

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109	Scl binds to primed enhancers in mesoderm to regulate hematopoietic and cardiac fate divergence. EMBO Journal, 2015, 34, 759-777.	3.5	64
110	PRC2 Is Required to Maintain Expression of the Maternal Gtl2-Rian-Mirg Locus by Preventing De Novo DNA Methylation in Mouse Embryonic Stem Cells. Cell Reports, 2015, 12, 1456-1470.	2.9	64
111	Mouse microcytic anaemia caused by a defect in the gene encoding the globin enhancer-binding protein NF-E2. Nature, 1993, 362, 768-770.	13.7	56
112	The histone demethylase UTX regulates the lineage-specific epigenetic program of invariant natural killer T cells. Nature Immunology, 2017, 18, 184-195.	7.0	56
113	The mTORC1/4E-BP pathway coordinates hemoglobin production with <scp>L</scp> -leucine availability. Science Signaling, 2015, 8, ra34.	1.6	54
114	Adenosine-to-inosine RNA editing by ADAR1 is essential for normal murine erythropoiesis. Experimental Hematology, 2016, 44, 947-963.	0.2	52
115	SnapShot: Hematopoiesis. Cell, 2008, 132, 712.e1-712.e2.	13.5	50
116	Regulation of Peripheral Nerve Myelin Maintenance by Gene Repression through Polycomb Repressive Complex 2. Journal of Neuroscience, 2015, 35, 8640-8652.	1.7	48
117	Customizing the genome as therapy for the Î²-hemoglobinopathies. Blood, 2016, 127, 2536-2545.	0.6	48
118	Flow-induced protein kinase Aâ€“CREB pathway acts via BMP signaling to promote HSC emergence. Journal of Experimental Medicine, 2015, 212, 633-648.	4.2	47
119	Polycomb repressive complex 2 regulates skeletal growth by suppressing Wnt and TGF-Î² signalling. Nature Communications, 2016, 7, 12047.	5.8	47
120	Chipping away at the Embryonic Stem Cell Network. Cell, 2005, 122, 828-830.	13.5	45
121	EED orchestration of heart maturation through interaction with HDACs is H3K27me3-independent. ELife, 2017, 6, .	2.8	44
122	Paying for future success in gene therapy. Science, 2016, 352, 1059-1061.	6.0	43
123	Transcription factor competition at the Î³-globin promoters controls hemoglobin switching. Nature Genetics, 2021, 53, 511-520.	9.4	43
124	Failure to replicate the STAP cell phenomenon. Nature, 2015, 525, E6-E9.	13.7	41
125	Priming the Hematopoietic Pump. Immunity, 2003, 19, 633-634.	6.6	40
126	Functional Proteomic Analysis of Repressive Histone Methyltransferase Complexes Reveals ZNF518B as a G9A Regulator*. Molecular and Cellular Proteomics, 2015, 14, 1435-1446.	2.5	39

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127	First critical repressive H3K27me3 marks in embryonic stem cells identified using designed protein inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10125-10130.	3.3	39
128	LSD1 is essential for oocyte meiotic progression by regulating CDC25B expression in mice. Nature Communications, 2015, 6, 10116.	5.8	38
129	Hemoglobin genetics: recent contributions of GWAS and gene editing. Human Molecular Genetics, 2016, 25, R99-R105.	1.4	38
130	The human von Willebrand factor gene. Structure of the 5' region. FEBS Journal, 1988, 171, 51-57.	0.2	37
131	PRC2 loss induces chemoresistance by repressing apoptosis in T cell acute lymphoblastic leukemia. Journal of Experimental Medicine, 2018, 215, 3094-3114.	4.2	37
132	Interferon-Î± signaling promotes embryonic HSC maturation. Blood, 2016, 128, 204-216.	0.6	36
133	Erythropoietin signaling regulates heme biosynthesis. ELife, 2017, 6, .	2.8	36
134	TAF5L and TAF6L Maintain Self-Renewal of Embryonic Stem Cells via the MYC Regulatory Network. Molecular Cell, 2019, 74, 1148-1163.e7.	4.5	36
135	Strict in vivo specificity of the Bcl11a erythroid enhancer. Blood, 2016, 128, 2338-2342.	0.6	33
136	CRISPR-SURF: discovering regulatory elements by deconvolution of CRISPR tiling screen data. Nature Methods, 2018, 15, 992-993.	9.0	33
137	Yap1 safeguards mouse embryonic stem cells from excessive apoptosis during differentiation. ELife, 2018, 7, .	2.8	33
138	Sickle Cell Disease at 100 Years. Science, 2010, 329, 291-292.	6.0	32
139	Enhancer dependence of cell-typeâ€“specific gene expression increases with developmental age. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21450-21458.	3.3	32
140	Genome-wide association studies of hematologic phenotypes: a window into human hematopoiesis. Current Opinion in Genetics and Development, 2013, 23, 339-344.	1.5	31
141	PRMT1-Mediated Translation Regulation Is a Crucial Vulnerability of Cancer. Cancer Research, 2017, 77, 4613-4625.	0.4	30
142	FAM210B is an erythropoietin target and regulates erythroid heme synthesis by controlling mitochondrial iron import and ferrochelatase activity. Journal of Biological Chemistry, 2018, 293, 19797-19811.	1.6	30
143	Angiopoietin-like proteins stimulate HSPC development through interaction with notch receptor signaling. ELife, 2015, 4, .	2.8	30
144	Functional interrogation of non-coding DNA through CRISPR genome editing. Methods, 2017, 121-122, 118-129.	1.9	28

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145	DNA methylation in adult stem cells: New insights into self-renewal. Epigenetics, 2010, 5, 189-193.	1.3	27
146	Calpain 2 Activation of P-TEFb Drives Megakaryocyte Morphogenesis and Is Disrupted by Leukemogenic GATA1 Mutation. Developmental Cell, 2013, 27, 607-620.	3.1	27
147	Multiplexed capture of spatial configuration and temporal dynamics of locus-specific 3D chromatin by biotinylated dCas9. Genome Biology, 2020, 21, 59.	3.8	27
148	14q32 and let-7 microRNAs regulate transcriptional networks in fetal and adult human erythroblasts. Human Molecular Genetics, 2018, 27, 1411-1420.	1.4	25
149	Inner nuclear protein Matrin-3 coordinates cell differentiation by stabilizing chromatin architecture. Nature Communications, 2021, 12, 6241.	5.8	25
150	Corepressor Rcor1 is essential for murine erythropoiesis. Blood, 2014, 123, 3175-3184.	0.6	24
151	A unified model of human hemoglobin switching through single-cell genome editing. Nature Communications, 2021, 12, 4991.	5.8	22
152	Hematopoietic stem cells develop in the absence of endothelial cadherin 5 expression. Blood, 2015, 126, 2811-2820.	0.6	20
153	Inactivation of Eed impedes MLL-AF9â€“mediated leukemogenesis through Cdkn2a-dependent and Cdkn2a-independent mechanisms in a murine model. Experimental Hematology, 2015, 43, 930-935.e6.	0.2	20
154	A molecular roadmap for induced multi-lineage trans-differentiation of fibroblasts by chemical combinations. Cell Research, 2017, 27, 386-401.	5.7	20
155	Reactivation of a developmentally silenced embryonic globin gene. Nature Communications, 2021, 12, 4439.	5.8	19
156	Mapping the evolving landscape of super-enhancers during cell differentiation. Genome Biology, 2021, 22, 269.	3.8	19
157	Gene correction of HAX1 reversed Kostmann disease phenotype in patient-specific induced pluripotent stem cells. Blood Advances, 2017, 1, 903-914.	2.5	18
158	Rb and hematopoiesis: stem cells to anemia. Cell Division, 2008, 3, 13.	1.1	17
159	Reduced Erg Dosage Impairs Survival of Hematopoietic Stem and Progenitor Cells. Stem Cells, 2017, 35, 1773-1785.	1.4	16
160	Downregulation of Endothelin Receptor B Contributes to Defective B Cell Lymphopoiesis in Trisomy 21 Pluripotent Stem Cells. Scientific Reports, 2018, 8, 8001.	1.6	15
161	Unleashing Cell-Intrinsic Inflammation as a Strategy to Kill AML Blasts. Cancer Discovery, 2022, 12, 1760-1781.	7.7	15
162	Changed destiny. Nature, 2007, 449, 410-411.	13.7	14

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163	Congenital anemia reveals distinct targeting mechanisms for master transcription factor GATA1. Blood, 2022, 139, 2534-2546.	0.6	14
164	A distinct core regulatory module enforces oncogene expression in KMT2A-rearranged leukemia. Genes and Development, 2022, 36, 368-389.	2.7	14
165	Temporal resolution of gene derepression and proteome changes upon PROTAC-mediated degradation of BCL11A protein in erythroid cells. Cell Chemical Biology, 2022, 29, 1273-1287.e8.	2.5	14
166	Post-meiotic transcription of phosphoglycerate-kinase 2 in mouse testes. Bioscience Reports, 1985, 5, 1087-1091.	1.1	13
167	Recent advances in globin research using genomeâ€wide association studies and gene editing. Annals of the New York Academy of Sciences, 2016, 1368, 5-10.	1.8	13
168	ARID4B is critical for mouse embryonic stem cell differentiation towards mesoderm and endoderm, linking epigenetics to pluripotency exit. Journal of Biological Chemistry, 2020, 295, 17738-17751.	1.6	13
169	Molecular Medicine: Found in Translation. Med, 2021, 2, 122-136.	2.2	13
170	ADAR1 Is Essential For Erythroid Development. Blood, 2013, 122, 9-9.	0.6	13
171	Genetic diagnosis of the fetus. Nature, 1982, 296, 202-203.	13.7	12
172	The LSD1 Family of Histone Demethylases and the Pumilio Posttranscriptional Repressor Function in a Complex Regulatory Feedback Loop. Molecular and Cellular Biology, 2015, 35, 4199-4211.	1.1	12
173	Developmental maturation of the hematopoietic system controlled by a Lin28b-let-7-Cbx2 axis. Cell Reports, 2022, 39, 110587.	2.9	12
174	Transcription factor-mediated intestinal metaplasia and the role of a shadow enhancer. Genes and Development, 2022, 36, 38-52.	2.7	11
175	Canonical PRC2 function is essential for mammary gland development and affects chromatin compaction in mammary organoids. PLoS Biology, 2018, 16, e2004986.	2.6	10
176	Gene therapy: Controlling the fetal globin switch in man. Nature, 1983, 301, 108-109.	13.7	8
177	Optimization of Bcl11a Knockdown By miRNA Scaffold Embedded Shrnas Leading to Enhanced Induction of Fetal Hemoglobin in Erythroid Cells for the Treatment of Beta-Hemoglobinopathies. Blood, 2014, 124, 2150-2150.	0.6	8
178	Transcriptional Plasticity Drives Leukemia Immune Escape. Blood Cancer Discovery, 2022, 3, 394-409.	2.6	8
179	Indispensable epigenetic control of thymic epithelial cell development and function by polycomb repressive complex 2. Nature Communications, 2021, 12, 3933.	5.8	7
180	A saturating mutagenesis CRISPR-Cas9â€“mediated functional genomic screen identifies cis- and trans-regulatory elements of Oct4 in murine ESCs. Journal of Biological Chemistry, 2020, 295, 15797-15809.	1.6	6

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