

# Stuart Orkin

## List of Publications by Year in descending order

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217  
papers

37,589  
citations

5782

84  
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3595

187  
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226  
all docs

226  
docs citations

226  
times ranked

43237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hematopoiesis: An Evolving Paradigm for Stem Cell Biology. <i>Cell</i> , 2008, 132, 631-644.	13.5	2,061
2	A comparative encyclopedia of DNA elements in the mouse genome. <i>Nature</i> , 2014, 515, 355-364.	13.7	1,444
3	An early haematopoietic defect in mice lacking the transcription factor GATA-2. <i>Nature</i> , 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. <i>Nature</i> , 1991, 349, 257-260.	13.7	1,291
5	Homozygous deletion in Wilms tumours of a zinc-finger gene identified by chromosome jumping. <i>Nature</i> , 1990, 343, 774-778.	13.7	1,279
6	Mapping the Mouse Cell Atlas by Microwell-Seq. <i>Cell</i> , 2018, 172, 1091-1107.e17.	13.5	1,068
7	Linkage of $\beta^2$ -thalassaemia mutations and $\beta^2$ -globin gene polymorphisms with DNA polymorphisms in human $\beta^2$ -globin gene cluster. <i>Nature</i> , 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. <i>Nature</i> , 1989, 339, 446-451.	13.7	941
9	Absence of blood formation in mice lacking the T-cell leukaemia oncoprotein tal-1/SCL. <i>Nature</i> , 1995, 373, 432-434.	13.7	880
10	Mouse model of X-linked chronic granulomatous disease, an inherited defect in phagocyte superoxide production. <i>Nature Genetics</i> , 1995, 9, 202-209.	9.4	846
11	Cloning the gene for an inherited human disorder—chronic granulomatous disease—on the basis of its chromosomal location. <i>Nature</i> , 1986, 322, 32-38.	13.7	833
12	Human Fetal Hemoglobin Expression Is Regulated by the Developmental Stage-Specific Repressor <i>BCL11A</i> . <i>Science</i> , 2008, 322, 1839-1842.	6.0	759
13	BCL11A enhancer dissection by Cas9-mediated in situ saturating mutagenesis. <i>Nature</i> , 2015, 527, 192-197.	13.7	726
14	Erythroid transcription factor NF-E2 is a haematopoietic-specific basic leucine zipper protein. <i>Nature</i> , 1993, 362, 722-728.	13.7	641
15	High-fat diet enhances stemness and tumorigenicity of intestinal progenitors. <i>Nature</i> , 2016, 531, 53-58.	13.7	602
16	Genome-wide association study shows <i>BCL11A</i> associated with persistent fetal hemoglobin and amelioration of the phenotype of $\beta^2$ -thalassemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1620-1625.	3.3	561
17	The E2F1 <sup>3</sup> transcription factors are essential for cellular proliferation. <i>Nature</i> , 2001, 414, 457-462.	13.7	545
18	Transcriptional regulation of erythropoiesis: an affair involving multiple partners. <i>Oncogene</i> , 2002, 21, 3368-3376.	2.6	534

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

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37	Transcriptional silencing of $\hat{\beta}$ -globin by BCL11A involves long-range interactions and cooperation with SOX6. <i>Genes and Development</i> , 2010, 24, 783-798.	2.7	304
38	Increased $\hat{\beta}$ -globin expression in a nondeletion HPFH mediated by an erythroid-specific DNA-binding factor. <i>Nature</i> , 1989, 338, 435-438.	13.7	303
39	Abnormal RNA processing due to the exon mutation of $\hat{\beta}^E$ -globin gene. <i>Nature</i> , 1982, 300, 768-769.	13.7	302
40	Gonadal differentiation, sex determination and normal $\langle i \rangle$ Sry $\langle /i \rangle$ expression in mice require direct interaction between transcription partners GATA4 and FOG2. <i>Development (Cambridge)</i> , 2002, 129, 4627-4634.	1.2	302
41	Cultured human endothelial cells express platelet-derived growth factor B chain: cDNA cloning and structural analysis. <i>Nature</i> , 1985, 316, 748-750.	13.7	291
42	Reprogramming Committed Murine Blood Cells to Induced Hematopoietic Stem Cells with Defined Factors. <i>Cell</i> , 2014, 157, 549-564.	13.5	290
43	Correction of Sickle Cell Disease in Adult Mice by Interference with Fetal Hemoglobin Silencing. <i>Science</i> , 2011, 334, 993-996.	6.0	281
44	Polycomb Repressive Complex 2 Regulates Normal Hematopoietic Stem Cell Function in a Developmental-Stage-Specific Manner. <i>Cell Stem Cell</i> , 2014, 14, 68-80.	5.2	275
45	Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin. <i>Science</i> , 2016, 351, 285-289.	6.0	260
46	Challenges and emerging directions in single-cell analysis. <i>Genome Biology</i> , 2017, 18, 84.	3.8	258
47	Rescue of erythroid development in gene targeted GATA $\hat{\epsilon}$ mouse embryonic stem cells. <i>Nature Genetics</i> , 1992, 1, 92-98.	9.4	255
48	Transcription control by the ENL YEATS domain in acute leukaemia. <i>Nature</i> , 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. <i>Cell Stem Cell</i> , 2015, 16, 504-516.	5.2	247
50	Association of a Ras-related protein with cytochrome b of human neutrophils. <i>Nature</i> , 1989, 342, 198-200.	13.7	244
51	Mouse regulatory DNA landscapes reveal global principles of cis-regulatory evolution. <i>Science</i> , 2014, 346, 1007-1012.	6.0	244
52	Fine-mapping at three loci known to affect fetal hemoglobin levels explains additional genetic variation. <i>Nature Genetics</i> , 2010, 42, 1049-1051.	9.4	243
53	Isolation of cDNA clones encoding the 20K T3 glycoprotein of human T-cell receptor complex. <i>Nature</i> , 1984, 312, 413-418.	13.7	238
54	Hematopoiesis and stem cells: plasticity versus developmental heterogeneity. <i>Nature Immunology</i> , 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. <i>Cancer Cell</i> , 2016, 29, 574-586.	7.7	227
56	Human CCAAT displacement protein is homologous to the <i>Drosophila</i> homeoprotein, cut. <i>Nature Genetics</i> , 1992, 1, 50-55.	9.4	216
57	Inflammatory signaling regulates embryonic hematopoietic stem and progenitor cell production. <i>Genes and Development</i> , 2014, 28, 2597-2612.	2.7	214
58	Dynamic Control of Enhancer Repertoires Drives Lineage and Stage-Specific Transcription during Hematopoiesis. <i>Developmental Cell</i> , 2016, 36, 9-23.	3.1	204
59	Corepressor-dependent silencing of fetal hemoglobin expression by BCL11A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1519-1524.	3.3	186
61	Dissecting super-enhancer hierarchy based on chromatin interactions. <i>Nature Communications</i> , 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. <i>Cell</i> , 2020, 181, 1410-1422.e27.	13.5	172
63	Live-animal imaging of native haematopoietic stem and progenitor cells. <i>Nature</i> , 2020, 578, 278-283.	13.7	171
64	A Functional Element Necessary for Fetal Hemoglobin Silencing. <i>New England Journal of Medicine</i> , 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. <i>Blood</i> , 1997, 89, 3636-3643.	0.6	159
66	Genetic treatment of a molecular disorder: gene therapy approaches to sickle cell disease. <i>Blood</i> , 2016, 127, 839-848.	0.6	138
67	Ezh2 regulates differentiation and function of natural killer cells through histone methyltransferase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15988-15993.	3.3	131
68	Use of in vivo biotinylation to study protein-protein and protein-DNA interactions in mouse embryonic stem cells. <i>Nature Protocols</i> , 2009, 4, 506-517.	5.5	129
69	Lineage-specific BCL11A knockdown circumvents toxicities and reverses sickle phenotype. <i>Journal of Clinical Investigation</i> , 2016, 126, 3868-3878.	3.9	129
70	Generation of Genomic Deletions in Mammalian Cell Lines via CRISPR/Cas9. <i>Journal of Visualized Experiments</i> , 2015, , e52118.	0.2	123
71	Functional footprinting of regulatory DNA. <i>Nature Methods</i> , 2015, 12, 927-930.	9.0	123
72	BCL11A deletions result in fetal hemoglobin persistence and neurodevelopmental alterations. <i>Journal of Clinical Investigation</i> , 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. <i>Molecular Cell</i> , 2015, 57, 304-316.	4.5	119
74	Embryonic stem cell-specific signatures in cancer: insights into genomic regulatory networks and implications for medicine. <i>Genome Medicine</i> , 2011, 3, 75.	3.6	112
75	Distinct and Combinatorial Functions of Jmjd2b/Kdm4b and Jmjd2c/Kdm4c in Mouse Embryonic Stem Cell Identity. <i>Molecular Cell</i> , 2014, 53, 32-48.	4.5	112
76	The Polycomb-Dependent Epigenome Controls $\beta^2$ Cell Dysfunction, Dedifferentiation, and Diabetes. <i>Cell Metabolism</i> , 2018, 27, 1294-1308.e7.	7.2	109
77	Recent progress in understanding and manipulating haemoglobin switching for the haemoglobinopathies. <i>British Journal of Haematology</i> , 2018, 180, 630-643.	1.2	107
78	miRNA-embedded shRNAs for Lineage-specific BCL11A Knockdown and Hemoglobin F Induction. <i>Molecular Therapy</i> , 2015, 23, 1465-1474.	3.7	101
79	Loss of <i>Ezh2</i> synergizes with <i>JAK2</i> -V617F in initiating myeloproliferative neoplasms and promoting myelofibrosis. <i>Journal of Experimental Medicine</i> , 2016, 213, 1479-1496.	4.2	101
80	Acquired Tissue-Specific Promoter Bivalency Is a Basis for PRC2 Necessity in Adult Cells. <i>Cell</i> , 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. <i>Cancer Cell</i> , 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. <i>Cancer Cell</i> , 2016, 29, 17-31.	7.7	96
83	Variant-aware saturating mutagenesis using multiple Cas9 nucleases identifies regulatory elements at trait-associated loci. <i>Nature Genetics</i> , 2017, 49, 625-634.	9.4	96
84	Human genetic variation alters CRISPR-Cas9 on- and off-targeting specificity at therapeutically implicated loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E11257-E11266.	3.3	96
85	Hemoglobin switching's surprise: the versatile transcription factor BCL11A is a master repressor of fetal hemoglobin. <i>Current Opinion in Genetics and Development</i> , 2015, 33, 62-70.	1.5	94
86	Transcription factor GATA1 in megakaryocyte development. <i>Stem Cells</i> , 1998, 16, 79-83.	1.4	91
87	Emerging Genetic Therapy for Sickle Cell Disease. <i>Annual Review of Medicine</i> , 2019, 70, 257-271.	5.0	90
88	Distinct Domains of the GATA-1 Cofactor FOG-1 Differentially Influence Erythroid versus Megakaryocytic Maturation. <i>Molecular and Cellular Biology</i> , 2002, 22, 4268-4279.	1.1	89
89	BORIS promotes chromatin regulatory interactions in treatment-resistant cancer cells. <i>Nature</i> , 2019, 572, 676-680.	13.7	89
90	Myeloproliferative neoplasms can be initiated from a single hematopoietic stem cell expressing <i>JAK2</i> -V617F. <i>Journal of Experimental Medicine</i> , 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. <i>Cell Reports</i> , 2016, 16, 3181-3194.	2.9	85
92	Rational targeting of a NuRD subcomplex guided by comprehensive in situ mutagenesis. <i>Nature Genetics</i> , 2019, 51, 1149-1159.	9.4	83
93	CUT&RUNTools: a flexible pipeline for CUT&RUN processing and footprint analysis. <i>Genome Biology</i> , 2019, 20, 192.	3.8	83
94	Friend of GATA-1 Represses GATA-3-dependent Activity in CD4+ T Cells. <i>Journal of Experimental Medicine</i> , 2001, 194, 1461-1471.	4.2	82
95	Partial deletion of the $\beta$ -globin structural gene in human $\beta$ -thalassaemia. <i>Nature</i> , 1980, 286, 538-540.	13.7	79
96	EHMT1 and EHMT2 inhibition induces fetal hemoglobin expression. <i>Blood</i> , 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. <i>Cell Reports</i> , 2016, 14, 956-965.	2.9	73
98	Control of human hemoglobin switching by LIN28B-mediated regulation of BCL11A translation. <i>Nature Genetics</i> , 2020, 52, 138-145.	9.4	73
99	Chronic Myelogenous Leukemia-initiating Cells Require Polycomb Group Protein EZH2. <i>Cancer Discovery</i> , 2016, 6, 1237-1247.	7.7	72
100	Integrated design, execution, and analysis of arrayed and pooled CRISPR genome-editing experiments. <i>Nature Protocols</i> , 2018, 13, 946-986.	5.5	70
101	Regulation of embryonic haematopoietic multipotency by EZH1. <i>Nature</i> , 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. <i>Cell Reports</i> , 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. <i>Cell Reports</i> , 2016, 16, 2053-2060.	2.9	69
104	Regulation of the Serum Concentration of Thrombopoietin in Thrombocytopenic NF-E2 Knockout Mice. <i>Blood</i> , 1997, 90, 1821-1827.	0.6	68
105	Dietary suppression of MHC class II expression in intestinal epithelial cells enhances intestinal tumorigenesis. <i>Cell Stem Cell</i> , 2021, 28, 1922-1935.e5.	5.2	67
106	Early pre-B cells from normal and X-linked agammaglobulinaemia produce $\mu$ without an attached VH region. <i>Nature</i> , 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. <i>Cell Reports</i> , 2016, 14, 1953-1965.	2.9	65
108	Extensive Recovery of Embryonic Enhancer and Gene Memory Stored in Hypomethylated Enhancer DNA. <i>Molecular Cell</i> , 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. <i>EMBO Journal</i> , 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. <i>Cell Reports</i> , 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. <i>Nature</i> , 1993, 362, 768-770.	13.7	56
112	The histone demethylase UTX regulates the lineage-specific epigenetic program of invariant natural killer T cells. <i>Nature Immunology</i> , 2017, 18, 184-195.	7.0	56
113	The mTORC1/4E-BP pathway coordinates hemoglobin production with <scp>L</scp> -leucine availability. <i>Science Signaling</i> , 2015, 8, ra34.	1.6	54
114	Adenosine-to-inosine RNA editing by ADAR1 is essential for normal murine erythropoiesis. <i>Experimental Hematology</i> , 2016, 44, 947-963.	0.2	52
115	SnapShot: Hematopoiesis. <i>Cell</i> , 2008, 132, 712.e1-712.e2.	13.5	50
116	Regulation of Peripheral Nerve Myelin Maintenance by Gene Repression through Polycomb Repressive Complex 2. <i>Journal of Neuroscience</i> , 2015, 35, 8640-8652.	1.7	48
117	Customizing the genome as therapy for the $\beta^2$ -hemoglobinopathies. <i>Blood</i> , 2016, 127, 2536-2545.	0.6	48
118	Flow-induced protein kinase A $\alpha$ -CREB pathway acts via BMP signaling to promote HSC emergence. <i>Journal of Experimental Medicine</i> , 2015, 212, 633-648.	4.2	47
119	Polycomb repressive complex 2 regulates skeletal growth by suppressing Wnt and TGF- $\beta$ signalling. <i>Nature Communications</i> , 2016, 7, 12047.	5.8	47
120	Chipping away at the Embryonic Stem Cell Network. <i>Cell</i> , 2005, 122, 828-830.	13.5	45
121	EED orchestration of heart maturation through interaction with HDACs is H3K27me3-independent. <i>ELife</i> , 2017, 6, .	2.8	44
122	Paying for future success in gene therapy. <i>Science</i> , 2016, 352, 1059-1061.	6.0	43
123	Transcription factor competition at the $\beta^3$ -globin promoters controls hemoglobin switching. <i>Nature Genetics</i> , 2021, 53, 511-520.	9.4	43
124	Failure to replicate the STAP cell phenomenon. <i>Nature</i> , 2015, 525, E6-E9.	13.7	41
125	Priming the Hematopoietic Pump. <i>Immunity</i> , 2003, 19, 633-634.	6.6	40
126	Functional Proteomic Analysis of Repressive Histone Methyltransferase Complexes Reveals ZNF518B as a G9A Regulator*. <i>Molecular and Cellular Proteomics</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10125-10130.	3.3	39
128	LSD1 is essential for oocyte meiotic progression by regulating CDC25B expression in mice. <i>Nature Communications</i> , 2015, 6, 10116.	5.8	38
129	Hemoglobin genetics: recent contributions of GWAS and gene editing. <i>Human Molecular Genetics</i> , 2016, 25, R99-R105.	1.4	38
130	The human von Willebrand factor gene. Structure of the 5' region. <i>FEBS Journal</i> , 1988, 171, 51-57.	0.2	37
131	PRC2 loss induces chemoresistance by repressing apoptosis in T cell acute lymphoblastic leukemia. <i>Journal of Experimental Medicine</i> , 2018, 215, 3094-3114.	4.2	37
132	Interferon- $\gamma$ signaling promotes embryonic HSC maturation. <i>Blood</i> , 2016, 128, 204-216.	0.6	36
133	Erythropoietin signaling regulates heme biosynthesis. <i>ELife</i> , 2017, 6, .	2.8	36
134	TAF5L and TAF6L Maintain Self-Renewal of Embryonic Stem Cells via the MYC Regulatory Network. <i>Molecular Cell</i> , 2019, 74, 1148-1163.e7.	4.5	36
135	Strict in vivo specificity of the Bcl11a erythroid enhancer. <i>Blood</i> , 2016, 128, 2338-2342.	0.6	33
136	CRISPR-SURF: discovering regulatory elements by deconvolution of CRISPR tiling screen data. <i>Nature Methods</i> , 2018, 15, 992-993.	9.0	33
137	Yap1 safeguards mouse embryonic stem cells from excessive apoptosis during differentiation. <i>ELife</i> , 2018, 7, .	2.8	33
138	Sickle Cell Disease at 100 Years. <i>Science</i> , 2010, 329, 291-292.	6.0	32
139	Enhancer dependence of cell-type-specific gene expression increases with developmental age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21450-21458.	3.3	32
140	Genome-wide association studies of hematologic phenotypes: a window into human hematopoiesis. <i>Current Opinion in Genetics and Development</i> , 2013, 23, 339-344.	1.5	31
141	PRMT1-Mediated Translation Regulation Is a Crucial Vulnerability of Cancer. <i>Cancer Research</i> , 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. <i>Journal of Biological Chemistry</i> , 2018, 293, 19797-19811.	1.6	30
143	Angiopietin-like proteins stimulate HSPC development through interaction with notch receptor signaling. <i>ELife</i> , 2015, 4, .	2.8	30
144	Functional interrogation of non-coding DNA through CRISPR genome editing. <i>Methods</i> , 2017, 121-122, 118-129.	1.9	28

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145	DNA methylation in adult stem cells: New insights into self-renewal. <i>Epigenetics</i> , 2010, 5, 189-193.	1.3	27
146	Calpain 2 Activation of P-TEFb Drives Megakaryocyte Morphogenesis and Is Disrupted by Leukemogenic GATA1 Mutation. <i>Developmental Cell</i> , 2013, 27, 607-620.	3.1	27
147	Multiplexed capture of spatial configuration and temporal dynamics of locus-specific 3D chromatin by biotinylated dCas9. <i>Genome Biology</i> , 2020, 21, 59.	3.8	27
148	14q32 and let-7 microRNAs regulate transcriptional networks in fetal and adult human erythroblasts. <i>Human Molecular Genetics</i> , 2018, 27, 1411-1420.	1.4	25
149	Inner nuclear protein Matrin-3 coordinates cell differentiation by stabilizing chromatin architecture. <i>Nature Communications</i> , 2021, 12, 6241.	5.8	25
150	Corepressor Rcor1 is essential for murine erythropoiesis. <i>Blood</i> , 2014, 123, 3175-3184.	0.6	24
151	A unified model of human hemoglobin switching through single-cell genome editing. <i>Nature Communications</i> , 2021, 12, 4991.	5.8	22
152	Hematopoietic stem cells develop in the absence of endothelial cadherin 5 expression. <i>Blood</i> , 2015, 126, 2811-2820.	0.6	20
153	Inactivation of Eed impedes MLL-AF9-mediated leukemogenesis through Cdkn2a-dependent and Cdkn2a-independent mechanisms in a murine model. <i>Experimental Hematology</i> , 2015, 43, 930-935.e6.	0.2	20
154	A molecular roadmap for induced multi-lineage trans-differentiation of fibroblasts by chemical combinations. <i>Cell Research</i> , 2017, 27, 386-401.	5.7	20
155	Reactivation of a developmentally silenced embryonic globin gene. <i>Nature Communications</i> , 2021, 12, 4439.	5.8	19
156	Mapping the evolving landscape of super-enhancers during cell differentiation. <i>Genome Biology</i> , 2021, 22, 269.	3.8	19
157	Gene correction of HAX1 reversed Kostmann disease phenotype in patient-specific induced pluripotent stem cells. <i>Blood Advances</i> , 2017, 1, 903-914.	2.5	18
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