

# Jian Xu

## List of Publications by Year in descending order

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58  
papers

6,227  
citations

172457

29  
h-index

168389

53  
g-index

70  
all docs

70  
docs citations

70  
times ranked

9092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Fetal Hemoglobin Expression Is Regulated by the Developmental Stage-Specific Repressor <i>BCL11A</i> . <i>Science</i> , 2008, 322, 1839-1842.	12.6	759
2	An Erythroid Enhancer of <i>BCL11A</i> Subject to Genetic Variation Determines Fetal Hemoglobin Level. <i>Science</i> , 2013, 342, 253-257.	12.6	518
3	Developmental and species-divergent globin switching are driven by <i>BCL11A</i> . <i>Nature</i> , 2009, 460, 1093-1097.	27.8	339
4	Direct Promoter Repression by <i>BCL11A</i> Controls the Fetal to Adult Hemoglobin Switch. <i>Cell</i> , 2018, 173, 430-442.e17.	28.9	328
5	Transcriptional silencing of $\gamma$ -globin by <i>BCL11A</i> involves long-range interactions and cooperation with <i>SOX6</i> . <i>Genes and Development</i> , 2010, 24, 783-798.	5.9	304
6	Correction of Sickle Cell Disease in Adult Mice by Interference with Fetal Hemoglobin Silencing. <i>Science</i> , 2011, 334, 993-996.	12.6	281
7	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.	11.1	275
8	Transcription factors LRF and <i>BCL11A</i> independently repress expression of fetal hemoglobin. <i>Science</i> , 2016, 351, 285-289.	12.6	260
9	The mitochondrial respiratory chain is essential for haematopoietic stem cell function. <i>Nature Cell Biology</i> , 2017, 19, 614-625.	10.3	244
10	In Situ Capture of Chromatin Interactions by Biotinylated dCas9. <i>Cell</i> , 2017, 170, 1028-1043.e19.	28.9	236
11	<i>CPS1</i> maintains pyrimidine pools and DNA synthesis in <i>KRAS/LKB1</i> -mutant lung cancer cells. <i>Nature</i> , 2017, 546, 168-172.	27.8	222
12	Inflammatory signaling regulates embryonic hematopoietic stem and progenitor cell production. <i>Genes and Development</i> , 2014, 28, 2597-2612.	5.9	214
13	Dynamic Control of Enhancer Repertoires Drives Lineage and Stage-Specific Transcription during Hematopoiesis. <i>Developmental Cell</i> , 2016, 36, 9-23.	7.0	204
14	Corepressor-dependent silencing of fetal hemoglobin expression by <i>BCL11A</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6518-6523.	7.1	189
15	Combinatorial Assembly of Developmental Stage-Specific Enhancers Controls Gene Expression Programs during Human Erythropoiesis. <i>Developmental Cell</i> , 2012, 23, 796-811.	7.0	183
16	Dissecting super-enhancer hierarchy based on chromatin interactions. <i>Nature Communications</i> , 2018, 9, 943.	12.8	179
17	A Functional Element Necessary for Fetal Hemoglobin Silencing. <i>New England Journal of Medicine</i> , 2011, 365, 807-814.	27.0	161
18	Interrogation of enhancer function by enhancer-targeting CRISPR epigenetic editing. <i>Nature Communications</i> , 2020, 11, 485.	12.8	139

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19	Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated protein translation. <i>Nature Cell Biology</i> , 2017, 19, 626-638.	10.3	126
20	Developmental Control of Polycomb Subunit Composition by GATA Factors Mediates a Switch to Non-Canonical Functions. <i>Molecular Cell</i> , 2015, 57, 304-316.	9.7	119
21	Suppression of the SWI/SNF Component Arid1a Promotes Mammalian Regeneration. <i>Cell Stem Cell</i> , 2016, 18, 456-466.	11.1	112
22	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. <i>Cancer Discovery</i> , 2019, 9, 1228-1247.	9.4	107
23	Bcl11a Deficiency Leads to Hematopoietic Stem Cell Defects with an Aging-like Phenotype. <i>Cell Reports</i> , 2016, 16, 3181-3194.	6.4	85
24	Regulation of embryonic haematopoietic multipotency by EZH1. <i>Nature</i> , 2018, 553, 506-510.	27.8	70
25	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.	6.4	64
26	Silencing of LINE-1 retrotransposons is a selective dependency of myeloid leukemia. <i>Nature Genetics</i> , 2021, 53, 672-682.	21.4	47
27	Lactate Dehydrogenase A Governs Cardiac Hypertrophic Growth in Response to Hemodynamic Stress. <i>Cell Reports</i> , 2020, 32, 108087.	6.4	43
28	MANorm2 for quantitatively comparing groups of ChIP-seq samples. <i>Genome Research</i> , 2021, 31, 131-145.	5.5	36
29	Role of the clathrin adaptor PICALM in normal hematopoiesis and polycythemia vera pathophysiology. <i>Haematologica</i> , 2015, 100, 439-451.	3.5	35
30	Guanosine triphosphate links MYC-dependent metabolic and ribosome programs in small-cell lung cancer. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	33
31	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.	7.1	32
32	GATA/Heme Multi-omics Reveals a Trace Metal-Dependent Cellular Differentiation Mechanism. <i>Developmental Cell</i> , 2018, 46, 581-594.e4.	7.0	31
33	Multiplexed capture of spatial configuration and temporal dynamics of locus-specific 3D chromatin by biotinylated dCas9. <i>Genome Biology</i> , 2020, 21, 59.	8.8	27
34	Noncoding Variants Connect Enhancer Dysregulation with Nuclear Receptor Signaling in Hematopoietic Malignancies. <i>Cancer Discovery</i> , 2020, 10, 724-745.	9.4	25
35	Inner nuclear protein Matrin-3 coordinates cell differentiation by stabilizing chromatin architecture. <i>Nature Communications</i> , 2021, 12, 6241.	12.8	25
36	SIRT1 regulates sphingolipid metabolism and neural differentiation of mouse embryonic stem cells through c-Myc-SMPDL3B. <i>ELife</i> , 2021, 10, .	6.0	22

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37	A unified model of human hemoglobin switching through single-cell genome editing. <i>Nature Communications</i> , 2021, 12, 4991.	12.8	22
38	Discovering How Heme Controls Genome Function Through Heme-omics. <i>Cell Reports</i> , 2020, 31, 107832.	6.4	21
39	Quantitative integration of epigenomic variation and transcription factor binding using MAMotif toolkit identifies an important role of IRF2 as transcription activator at gene promoters. <i>Cell Discovery</i> , 2018, 4, 38.	6.7	17
40	Genetic inactivation of calpain-1 attenuates pain sensitivity in a humanized mouse model of sickle cell disease. <i>Haematologica</i> , 2016, 101, e397-e400.	3.5	14
41	CAPTURE: <i>In Situ</i> Analysis of Chromatin Composition of Endogenous Genomic Loci by Biotinylated dCas9. <i>Current Protocols in Molecular Biology</i> , 2018, 123, e64.	2.9	14
42	Designing an Enhancer Landscape. <i>Cell</i> , 2012, 151, 929-931.	28.9	13
43	Installation of a cancer promoting WNT/SIX1 signaling axis by the oncofusion protein MLL-AF9. <i>EBioMedicine</i> , 2019, 39, 145-158.	6.1	13
44	MAP: model-based analysis of proteomic data to detect proteins with significant abundance changes. <i>Cell Discovery</i> , 2019, 5, 40.	6.7	11
45	Convergence of oncogenic cooperation at single-cell and single-gene levels drives leukemic transformation. <i>Nature Communications</i> , 2021, 12, 6323.	12.8	10
46	Mixed Phenotype Acute Leukemia, B/Myeloid (Bilineal and Biphenotypic), With t(2;22)(q35;q12);EWSR1-FEV. <i>Journal of Pediatric Hematology/Oncology</i> , 2021, 43, e388-e394.	0.6	5
47	Identification Of BCL11A Structure-Function Domains For Fetal Hemoglobin Silencing. <i>Blood</i> , 2013, 122, 435-435.	1.4	3
48	The erythroid/myeloid lineage fate paradigm takes a new player. <i>EMBO Journal</i> , 2011, 30, 983-985.	7.8	1
49	Therapy Response and Outcome Explained by Leukemia Cell of Origin. <i>Cancer Discovery</i> , 2020, 10, 1445-1447.	9.4	1
50	Model-based analysis of chromatin interactions from dCas9-Based CAPTURE-3C-seq. <i>PLoS ONE</i> , 2020, 15, e0236666.	2.5	1
51	Inability to Express HOXA Cluster and BCL11A Genes Compromises Self-Renewal and Multipotency of hESC-Derived Hematopoietic Cells. <i>Blood</i> , 2012, 120, 1190-1190.	1.4	1
52	Hematopoietic SIN Lentiviral Micro RNA-Mediated Silencing of BCL11A: Pre-Clinical Evidence for a Sickle Cell Disease Gene-Therapy Trial. <i>Blood</i> , 2012, 120, 753-753.	1.4	1
53	Correction of Murine Sickle Cell Disease Through Interference with Fetal Hemoglobin Silencing. <i>Blood</i> , 2011, 118, 351-351.	1.4	1
54	Role of the Kruppel-Type Zinc Finger Transcription Factor ZBP-89 In Human Globin Gene Regulation and Erythroid Development. <i>Blood</i> , 2010, 116, 2067-2067.	1.4	0

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55	An SCF-FBXW7 Ubiquitin Ligase Mediated Feedback Loop Facilitates GATA Factor Switching and Reinforces Commitment to Terminal Erythroid Maturation. Blood, 2014, 124, 245-245.	1.4	0
56	Inflammatory Signaling Regulates Embryonic Hematopoietic Stem and Lymphoid Progenitor Cell Formation. Blood, 2014, 124, 2902-2902.	1.4	0
57	In Situ Capture of the Molecular Composition of Erythroid Transcriptional Enhancers. Blood, 2017, 130, SCI-17-SCI-17.	1.4	0
58	Elucidating Mechanisms of Acquired Resistance to IDH Inhibition By Saturation Variant Screening of Base-Edited Leukemia Cells. Blood, 2020, 136, 3-3.	1.4	0