

# Jiayi Zhou

## List of Publications by Year in descending order

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36  
papers

1,124  
citations

394421

19  
h-index

414414

32  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1658  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Induction of Neural Conversion in Human ESCs and Human Induced Pluripotent Stem Cells with a Single Chemical Inhibitor of Transforming Growth Factor Beta Superfamily Receptors. <i>Stem Cells</i> , 2010, 28, 1741-1750.	3.2	151
2	High-efficiency motor neuron differentiation from human pluripotent stem cells and the function of Islet-1. <i>Nature Communications</i> , 2014, 5, 3449.	12.8	121
3	Long non-coding RNA-dependent mechanism to regulate heme biosynthesis and erythrocyte development. <i>Nature Communications</i> , 2018, 9, 4386.	12.8	84
4	Decoding Human Megakaryocyte Development. <i>Cell Stem Cell</i> , 2021, 28, 535-549.e8.	11.1	79
5	MSX2 mediates entry of human pluripotent stem cells into mesendoderm by simultaneously suppressing SOX2 and activating NODAL signaling. <i>Cell Research</i> , 2015, 25, 1314-1332.	12.0	60
6	Early Development of Definitive Erythroblasts from Human Pluripotent Stem Cells Defined by Expression of Glycophorin A/CD235a, CD34, and CD36. <i>Stem Cell Reports</i> , 2016, 7, 869-883.	4.8	60
7	MEIS1 Regulates Hemogenic Endothelial Generation, Megakaryopoiesis, and Thrombopoiesis in Human Pluripotent Stem Cells by Targeting TAL1 and FLI1. <i>Stem Cell Reports</i> , 2018, 10, 447-460.	4.8	56
8	MSX2 Initiates and Accelerates Mesenchymal Stem/Stromal Cell Specification of hPSCs by Regulating TWIST1 and PRAME. <i>Stem Cell Reports</i> , 2018, 11, 497-513.	4.8	56
9	Extracellular Acidification Acts as a Key Modulator of Neutrophil Apoptosis and Functions. <i>PLoS ONE</i> , 2015, 10, e0137221.	2.5	44
10	Hematopoietic Stem Cell Heterogeneity Is Linked to the Initiation and Therapeutic Response of Myeloproliferative Neoplasms. <i>Cell Stem Cell</i> , 2021, 28, 502-513.e6.	11.1	36
11	Rotary Suspension Culture Enhances Mesendoderm Differentiation of Embryonic Stem Cells Through Modulation of Wnt/ $\beta$ -catenin Pathway. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 526-538.	5.6	33
12	Single-cell transcriptomic analysis identifies an immune-prone population in erythroid precursors during human ontogenesis. <i>Nature Immunology</i> , 2022, 23, 1109-1120.	14.5	30
13	MEIS2 regulates endothelial to hematopoietic transition of human embryonic stem cells by targeting TAL1. <i>Stem Cell Research and Therapy</i> , 2018, 9, 340.	5.5	29
14	Effect of microgravity on proliferation and differentiation of embryonic stem cells in an automated culturing system during the <i>TZ</i> space mission. <i>Cell Proliferation</i> , 2018, 51, e12466.	5.3	29
15	Characterization of Cellular Heterogeneity and an Immune Subpopulation of Human Megakaryocytes. <i>Advanced Science</i> , 2021, 8, e2100921.	11.2	29
16	Integrated Biophysical and Biochemical Signals Augment Megakaryopoiesis and Thrombopoiesis in a Three-Dimensional Rotary Culture System. <i>Stem Cells Translational Medicine</i> , 2016, 5, 175-185.	3.3	26
17	Advances in the understanding of poor graft function following allogeneic hematopoietic stem-cell transplantation. <i>Therapeutic Advances in Hematology</i> , 2020, 11, 204062072094874.	2.5	26
18	Thrombopoietin knock-in augments platelet generation from human embryonic stem cells. <i>Stem Cell Research and Therapy</i> , 2018, 9, 194.	5.5	24

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19	Overexpression of GATA2 Enhances Development and Maintenance of Human Embryonic Stem Cell-Derived Hematopoietic Stem Cell-like Progenitors. <i>Stem Cell Reports</i> , 2019, 13, 31-47.	4.8	22
20	Decitabine improves platelet recovery by down-regulating IL-8 level in MDS/AML patients with thrombocytopenia. <i>Blood Cells, Molecules, and Diseases</i> , 2019, 76, 66-71.	1.4	20
21	Decoding the pathogenesis of Diamond-Blackfan anemia using single-cell RNA-seq. <i>Cell Discovery</i> , 2022, 8, 41.	6.7	14
22	Receptor-mediated mitophagy regulates EPO production and protects against renal anemia. <i>ELife</i> , 2021, 10, .	6.0	11
23	The Heterogeneity of Megakaryocytes and Platelets and Implications for Ex Vivo Platelet Generation. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1614-1620.	3.3	11
24	Inflammation-Associated Cytokines IGFBP1 and RANTES Impair the Megakaryocytic Potential of HSCs in PT Patients after Allo-HSCT. <i>Biology of Blood and Marrow Transplantation</i> , 2018, 24, 1142-1151.	2.0	10
25	LGR4, Not LGR5, Enhances hPSC Hematopoiesis by Facilitating Mesoderm Induction via TGF-Beta Signaling Activation. <i>Cell Reports</i> , 2020, 31, 107600.	6.4	9
26	A splicing factor switch controls hematopoietic lineage specification of pluripotent stem cells. <i>EMBO Reports</i> , 2021, 22, e50535.	4.5	9
27	Biphasic Regulation of Mesenchymal Genes Controls Fate Switches During Hematopoietic Differentiation of Human Pluripotent Stem Cells. <i>Advanced Science</i> , 2020, 7, 2001019.	11.2	8
28	R-spondin2 promotes hematopoietic differentiation of human pluripotent stem cells by activating TGF beta signaling. <i>Stem Cell Research and Therapy</i> , 2019, 10, 136.	5.5	7
29	MSX2 suppression through inhibition of TGFβ <sup>2</sup> signaling enhances hematopoietic differentiation of human embryonic stem cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 147.	5.5	6
30	Loss of Tet2 affects platelet function but not coagulation in mice. <i>Blood Science</i> , 2020, 2, 129-136.	0.9	5
31	Establishment of a highly efficient hematopoietic differentiation model from human embryonic stem cells for functional screening. <i>Science China Life Sciences</i> , 2013, 56, 1147-1149.	4.9	4
32	Function of FEZF1 during early neural differentiation of human embryonic stem cells. <i>Science China Life Sciences</i> , 2018, 61, 35-45.	4.9	4
33	Illustrated State-of-the-Art Capsules of the ISTH 2022 Congress. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2022, 6, e12747.	2.3	4
34	Comparison of porcine ALG and rabbit ATG on outcomes of HLA-haploidentical hematopoietic stem cell transplantation for patients with acquired aplastic anemia. <i>Cancer Cell International</i> , 2022, 22, 89.	4.1	3
35	Heat shock transcription factor 1 regulates the fetal β <sup>3</sup> -globin expression in a stress-dependent and independent manner during erythroid differentiation. <i>Experimental Cell Research</i> , 2020, 387, 111780.	2.6	2
36	Severe ineffective erythropoiesis discriminates prognosis in myelodysplastic syndromes: analysis based on 776 patients from a single centre. <i>Blood Cancer Journal</i> , 2020, 10, 83.	6.2	1