Jacob H Hanna

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8159246/publications.pdf

Version: 2024-02-01

106 papers	29,430 citations	23567 58 h-index	25787 108 g-index
127 all docs	127 docs citations	127 times ranked	34767 citing authors

#	Article	IF	Citations
1	Histone H3K27ac separates active from poised enhancers and predicts developmental state. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21931-21936.	7.1	3,446
2	Genome-scale DNA methylation maps of pluripotent and differentiated cells. Nature, 2008, 454, 766-770.	27.8	2,267
3	Epigenetic memory in induced pluripotent stem cells. Nature, 2010, 467, 285-290.	27.8	2,011
4	Decidual NK cells regulate key developmental processes at the human fetal-maternal interface. Nature Medicine, 2006, 12, 1065-1074.	30.7	1,456
5	Treatment of Sickle Cell Anemia Mouse Model with iPS Cells Generated from Autologous Skin. Science, 2007, 318, 1920-1923.	12.6	1,399
6	Dissecting direct reprogramming through integrative genomic analysis. Nature, 2008, 454, 49-55.	27.8	1,344
7	m ⁶ A mRNA methylation facilitates resolution of naÃ¯ve pluripotency toward differentiation. Science, 2015, 347, 1002-1006.	12.6	1,288
8	Direct cell reprogramming is a stochastic process amenable to acceleration. Nature, 2009, 462, 595-601.	27.8	936
9	Derivation of novel human ground state naive pluripotent stem cells. Nature, 2013, 504, 282-286.	27.8	924
10	Direct Reprogramming of Terminally Differentiated Mature B Lymphocytes to Pluripotency. Cell, 2008, 133, 250-264.	28.9	765
11	Human embryonic stem cells with biological and epigenetic characteristics similar to those of mouse ESCs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9222-9227.	7.1	755
12	SOX17 Is a Critical Specifier of Human Primordial Germ Cell Fate. Cell, 2015, 160, 253-268.	28.9	687
13	Pluripotency and Cellular Reprogramming: Facts, Hypotheses, Unresolved Issues. Cell, 2010, 143, 508-525.	28.9	635
14	Lethal influenza infection in the absence of the natural killer cell receptor gene Ncr1. Nature Immunology, 2006, 7, 517-523.	14.5	503
15	Dynamic stem cell states: naive to primed pluripotency in rodents and humans. Nature Reviews Molecular Cell Biology, 2016, 17, 155-169.	37.0	490
16	Deterministic direct reprogramming of somatic cells to pluripotency. Nature, 2013, 502, 65-70.	27.8	471
17	Reprogramming of murine and human somatic cells using a single polycistronic vector. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 157-162.	7.1	453
18	m⁶A mRNA modifications are deposited in nascent pre-mRNA and are not required for splicing but do specify cytoplasmic turnover. Genes and Development, 2017, 31, 990-1006.	5.9	448

#	Article	IF	Citations
19	A drug-inducible transgenic system for direct reprogramming of multiple somatic cell types. Nature Biotechnology, 2008, 26, 916-924.	17.5	395
20	Reprogramming of Human Peripheral Blood Cells to Induced Pluripotent Stem Cells. Cell Stem Cell, 2010, 7, 20-24.	11.1	377
21	Single-gene transgenic mouse strains for reprogramming adult somatic cells. Nature Methods, 2010, 7, 56-59.	19.0	373
22	Reprogramming of murine fibroblasts to induced pluripotent stem cells with chemical complementation of Klf4. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8912-8917.	7.1	363
23	Deciphering the â€œm6A Codeâ€•via Antibody-Independent Quantitative Profiling. Cell, 2019, 178, 731-747.e16.	28.9	341
24	Inhibition of the NKp30 activating receptor by pp65 of human cytomegalovirus. Nature Immunology, 2005, 6, 515-523.	14.5	327
25	CXCL12 expression by invasive trophoblasts induces the specific migration of CD16â€" human natural killer cells. Blood, 2003, 102, 1569-1577.	1.4	326
26	The H3K27 demethylase Utx regulates somatic and germ cell epigenetic reprogramming. Nature, 2012, 488, 409-413.	27.8	322
27	Metastable Pluripotent States in NOD-Mouse-Derived ESCs. Cell Stem Cell, 2009, 4, 513-524.	11.1	318
28	m6A modification controls the innate immune response to infection by targeting type I interferons. Nature Immunology, 2019, 20, 173-182.	14.5	317
29	Human brain organoids on a chip reveal the physics of folding. Nature Physics, 2018, 14, 515-522.	16.7	311
30	H2AZ Is Enriched at Polycomb Complex Target Genes in ES Cells and Is Necessary for Lineage Commitment. Cell, 2008, 135, 649-661.	28.9	307
31	Reprogramming Factor Stoichiometry Influences the Epigenetic State and Biological Properties of Induced Pluripotent Stem Cells. Cell Stem Cell, 2011, 9, 588-598.	11.1	297
32	The Role of m6A/m-RNA Methylation in Stress Response Regulation. Neuron, 2018, 99, 389-403.e9.	8.1	293
33	The N ⁶ -Methyladenosine mRNA Methylase METTL3 Controls Cardiac Homeostasis and Hypertrophy. Circulation, 2019, 139, 533-545.	1.6	279
34	Trained Memory of Human Uterine NK Cells Enhances Their Function in Subsequent Pregnancies. Immunity, 2018, 48, 951-962.e5.	14.3	230
35	Lymphatic vessels arise from specialized angioblasts within a venous niche. Nature, 2015, 522, 56-61.	27.8	197
36	RNF20 and USP44 Regulate Stem Cell Differentiation by Modulating H2B Monoubiquitylation. Molecular Cell, 2012, 46, 662-673.	9.7	187

#	Article	IF	Citations
37	Stage-specific requirement for Mettl3-dependent m6A mRNA methylation during haematopoietic stem cell differentiation. Nature Cell Biology, 2019, 21, 700-709.	10.3	172
38	Context-dependent functional compensation between Ythdf m⁶A reader proteins. Genes and Development, 2020, 34, 1373-1391.	5.9	158
39	Spatiotemporal Proteomic Analysis of Stress Granule Disassembly Using APEX Reveals Regulation by SUMOylation and Links to ALS Pathogenesis. Molecular Cell, 2020, 80, 876-891.e6.	9.7	154
40	Novel Insights on Human NK Cellsâ€™ Immunological Modalities Revealed by Gene Expression Profiling. Journal of Immunology, 2004, 173, 6547-6563.	0.8	148
41	NKp46 Receptor-Mediated Interferon-Î³ Production by Natural Killer Cells Increases Fibronectin 1 to Alter Tumor Architecture and Control Metastasis. Immunity, 2018, 48, 107-119.e4.	14.3	143
42	Evolutionary analysis across mammals reveals distinct classes of long non-coding RNAs. Genome Biology, 2016, 17, 19.	8.8	141
43	Complexes of HLA-G Protein on the Cell Surface Are Important for Leukocyte Ig-Like Receptor-1 Function. Journal of Immunology, 2003, 171, 1343-1351.	0.8	136
44	Novel APC-like properties of human NK cells directly regulate T cell activation. Journal of Clinical Investigation, 2004, 114, 1612-1623.	8.2	136
45	Transient acquisition of pluripotency during somatic cell transdifferentiation with iPSC reprogramming factors. Nature Biotechnology, 2015, 33, 769-774.	17.5	124
46	Ex utero mouse embryogenesis from pre-gastrulation to late organogenesis. Nature, 2021, 593, 119-124.	27.8	124
47	When killers become helpers. Trends in Immunology, 2007, 28, 201-206.	6.8	113
48	Involvement of the CXCL12/CXCR4 pathway in the advanced liver disease that is associated with hepatitis C virus or hepatitis B virus. European Journal of Immunology, 2004, 34, 1164-1174.	2.9	104
49	Involvement of CXCR4 and IL-2 in the homing and retention of human NK and NK T cells to the bone marrow and spleen of NOD/SCID mice. Blood, 2003, 102, 1951-1958.	1.4	103
50	Pivotal role of CEACAM1 protein in the inhibition of activated decidual lymphocyte functions. Journal of Clinical Investigation, 2002, 110, 943-953.	8.2	93
51	Transgenic mice with defined combinations of drug-inducible reprogramming factors. Nature Biotechnology, 2009, 27, 169-171.	17.5	91
52	Co-ChIP enables genome-wide mapping of histone mark co-occurrence at single-molecule resolution. Nature Biotechnology, 2016, 34, 953-961.	17.5	81
53	Transcriptional programs that control expression of the autoimmune regulator gene Aire. Nature Immunology, 2017, 18, 161-172.	14.5	81
54	Principles of signaling pathway modulation for enhancing human naive pluripotency induction. Cell Stem Cell, 2021, 28, 1549-1565.e12.	11.1	78

#	Article	IF	Citations
55	CD24 tracks divergent pluripotent states in mouse and human cells. Nature Communications, 2015, 6, 7329.	12.8	76
56	Generation of human endothelium in pig embryos deficient in ETV2. Nature Biotechnology, 2020, 38, 297-302.	17.5	74
57	An essential role for UTX in resolution and activation of bivalent promoters. Nucleic Acids Research, 2016, 44, 3659-3674.	14.5	63
58	The mechanisms controlling NK cell autoreactivity in TAP2-deficient patients. Blood, 2004, 103, 1770-1778.	1.4	62
59	Expression of KIR2DL1 on the entire NK cell population: a possible novel immunodeficiency syndrome. Blood, 2004, 103, 1965-1966.	1.4	62
60	Pivotal role of CEACAM1 protein in the inhibition of activated decidual lymphocyte functions. Journal of Clinical Investigation, 2002, 110, 943-953.	8.2	60
61	Reprogramming of Postnatal Neurons into Induced Pluripotent Stem Cells by Defined Factors. Stem Cells, 2011, 29, 992-1000.	3.2	59
62	Neutralizing Gatad2a-Chd4-Mbd3/NuRD Complex Facilitates Deterministic Induction of Naive Pluripotency. Cell Stem Cell, 2018, 23, 412-425.e10.	11.1	59
63	MTCH2-mediated mitochondrial fusion drives exit from naÃ¯ve pluripotency in embryonic stem cells. Nature Communications, 2018, 9, 5132.	12.8	53
64	Deterministic Somatic Cell Reprogramming Involves Continuous Transcriptional Changes Governed by Myc and Epigenetic-Driven Modules. Cell Stem Cell, 2019, 24, 328-341.e9.	11.1	44
65	Clonal allelic predetermination of immunoglobulin-Îº rearrangement. Nature, 2012, 490, 561-565.	27.8	42
66	The involvement of NK cells in ankylosing spondylitis. International Immunology, 2005, 17, 837-845.	4.0	41
67	Failure to replicate the STAP cell phenomenon. Nature, 2015, 525, E6-E9.	27.8	41
68	Relevance of iPSC-derived human PGC-like cells at the surface of embryoid bodies to prechemotaxis migrating PGCs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9913-E9922.	7.1	41
69	Passage Number is a Major Contributor to Genomic Structural Variations in Mouse iPSCs. Stem Cells, 2014, 32, 2657-2667.	3.2	40
70	Reprogramming of Somatic Cell Identity. Cold Spring Harbor Symposia on Quantitative Biology, 2008, 73, 147-155.	1.1	34
71	Biological function of the soluble CEACAM1 protein and implications in TAP2-deficient patients. European Journal of Immunology, 2004, 34, 2138-2148.	2.9	32
72	Harnessing Soluble NK Cell Killer Receptors for the Generation of Novel Cancer Immune Therapy. PLoS ONE, 2008, 3, e2150.	2.5	30

#	Article	IF	Citations
73	Special organization of the HLA-G protein on the cell surface. Human Immunology, 2003, 64, 1011-1016.	2.4	29
74	Modulating cell state to enhance suspension expansion of human pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6369-6374.	7.1	29
75	Mechanism of noncoding RNA-associated N6-methyladenosine recognition by an RNA processing complex during IgH DNA recombination. Molecular Cell, 2021, 81, 3949-3964.e7.	9.7	28
76	RAS Regulates the Transition from Naive to Primed Pluripotent Stem Cells. Stem Cell Reports, 2018, 10, 1088-1101.	4.8	27
77	Modeling genetic epileptic encephalopathies using brain organoids. EMBO Molecular Medicine, 2021, 13, e13610.	6.9	25
78	The germinal center reaction depends on RNA methylation and divergent functions of specific methyl readers. Journal of Experimental Medicine, 2021, 218, .	8.5	25
79	Functional aberrant expression of CCR2 receptor on chronically activated NK cells in patients with TAP-2 deficiency. Blood, 2005, 106, 3465-3473.	1.4	24
80	Proteomic analysis of human natural killer cells: insights on new potential NK immune functions. Molecular Immunology, 2005, 42, 425-431.	2.2	23
81	Establishing the human naÃ¯ve pluripotent state. Current Opinion in Genetics and Development, 2015, 34, 35-45.	3.3	23
82	Role of m6A in Embryonic Stem Cell Differentiation and in Gametogenesis. Epigenomes, 2020, 4, 5.	1.8	22
83	SUMOylation of linker histone H1 drives chromatin condensation and restriction of embryonic cell fate identity. Molecular Cell, 2022, 82, 106-122.e9.	9.7	19
84	Increased NK cell immunity in a transgenic mouse model of NKp46 overexpression. Scientific Reports, 2017, 7, 13090.	3.3	15
85	The Expression of the Beta Cell-Derived Autoimmune Ligand for the Killer Receptor Nkp46 Is Attenuated in Type 2 Diabetes. PLoS ONE, 2013, 8, e74033.	2.5	14
86	Control of Foxp3 induction and maintenance by sequential histone acetylation and DNA demethylation. Cell Reports, 2021, 37, 110124.	6.4	13
87	The quest for the perfect reprogrammed cell. Nature, 2014, 511, 160-162.	27.8	11
88	YTHDF2 suppresses the plasmablast genetic program and promotes germinal center formation. Cell Reports, 2022, 39, 110778.	6.4	11
89	Î²-Catenin safeguards the ground state of mousepluripotency by strengthening the robustness of the transcriptional apparatus. Science Advances, 2020, 6, eaba1593.	10.3	10
90	Characterization of Endoplasmic Reticulum (ER) in Human Pluripotent Stem Cells Revealed Increased Susceptibility to Cell Death upon ER Stress. Cells, 2020, 9, 1078.	4.1	10

#	Article	IF	Citations
91	esBAF safeguards Stat3 binding to maintain pluripotency. Nature Cell Biology, 2011, 13, 886-888.	10.3	7
92	Universally non-immunogenic iPSCs. Nature Biomedical Engineering, 2019, 3, 337-338.	22.5	7
93	Stem Cell-Derived Human Gametes: The Public Engagement Imperative. Trends in Molecular Medicine, 2019, 25, 165-167.	6.7	7
94	The STATs on Naive iPSC Reprogramming. Cell Stem Cell, 2010, 7, 274-276.	11.1	6
95	Lucky iPSCs. Genome Biology, 2014, 15, 109.	9.6	6
96	OCT4 impedes cell fate redirection by the melanocyte lineage master regulator MITF in mouse ESCs. Nature Communications, 2017, 8, 1022.	12.8	6
97	A multiplexed screening method for pluripotency. Stem Cell Research, 2017, 23, 158-162.	0.7	6
98	Generation of Human Primordial Germ Cell-like Cells at the Surface of Embryoid Bodies from Primed-pluripotency Induced Pluripotent Stem Cells. Journal of Visualized Experiments, 2019, , .	0.3	5
99	Production and Analysis of Human Primordial Germ Cellâ€"Like Cells. Methods in Molecular Biology, 2021, 2195, 125-145.	0.9	5
100	Oct4 shuffles Sox partners to direct cell fate. EMBO Journal, 2013, 32, 917-919.	7.8	4
101	Hijacked by an Oocyte: Hierarchical Molecular Changes in Somatic Cell Nuclear Transfer. Molecular Cell, 2014, 55, 507-509.	9.7	3
102	Ex Utero Culture of Mouse Embryos from Pregastrulation to Advanced Organogenesis. Journal of Visualized Experiments, 2021, , .	0.3	3
103	Novel APC-like properties of human NK cells directly regulate T cell activation. Journal of Clinical Investigation, 2015, 125, 1763-1763.	8.2	1
104	Tracing the genesis of human embryonic stem cells. Nature Biotechnology, 2012, 30, 247-249.	17.5	0
105	The Molecular and Functional Foundations of Conducive Somatic Cell Reprogramming to Ground State Pluripotency. SSRN Electronic Journal, 0, , .	0.4	0
106	Neutralizing Gatad2a-Chd4-Mbd3 Axis within the NuRD Complex Facilitates Deterministic Induction of Naive Pluripotency. SSRN Electronic Journal, 0, , .	0.4	0