

# Jacob H Hanna

## List of Publications by Citations

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108  
papers

23,165  
citations

53  
h-index

127  
g-index

127  
ext. papers

26,956  
ext. citations

20.7  
avg, IF

6.35  
L-index

#	Paper	IF	Citations
108	Histone H3K27ac separates active from poised enhancers and predicts developmental state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 21931-6	11.5	2453
107	Genome-scale DNA methylation maps of pluripotent and differentiated cells. <i>Nature</i> , <b>2008</b> , 454, 766-70	50.4	1999
106	Epigenetic memory in induced pluripotent stem cells. <i>Nature</i> , <b>2010</b> , 467, 285-90	50.4	1729
105	Treatment of sickle cell anemia mouse model with iPS cells generated from autologous skin. <i>Science</i> , <b>2007</b> , 318, 1920-3	33.3	1218
104	Dissecting direct reprogramming through integrative genomic analysis. <i>Nature</i> , <b>2008</b> , 454, 49-55	50.4	1205
103	Decidual NK cells regulate key developmental processes at the human fetal-maternal interface. <i>Nature Medicine</i> , <b>2006</b> , 12, 1065-74	50.5	1185
102	Stem cells. m6A mRNA methylation facilitates resolution of naive pluripotency toward differentiation. <i>Science</i> , <b>2015</b> , 347, 1002-6	33.3	904
101	Direct cell reprogramming is a stochastic process amenable to acceleration. <i>Nature</i> , <b>2009</b> , 462, 595-601	50.4	814
100	Derivation of novel human ground state naive pluripotent stem cells. <i>Nature</i> , <b>2013</b> , 504, 282-6	50.4	739
99	Direct reprogramming of terminally differentiated mature B lymphocytes to pluripotency. <i>Cell</i> , <b>2008</b> , 133, 250-64	56.2	684
98	Human embryonic stem cells with biological and epigenetic characteristics similar to those of mouse ESCs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9222-7	11.5	662
97	Pluripotency and cellular reprogramming: facts, hypotheses, unresolved issues. <i>Cell</i> , <b>2010</b> , 143, 508-25	56.2	542
96	SOX17 is a critical specifier of human primordial germ cell fate. <i>Cell</i> , <b>2015</b> , 160, 253-68	56.2	490
95	Lethal influenza infection in the absence of the natural killer cell receptor gene Ncr1. <i>Nature Immunology</i> , <b>2006</b> , 7, 517-23	19.1	438
94	Reprogramming of murine and human somatic cells using a single polycistronic vector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 157-62	11.5	406
93	Deterministic direct reprogramming of somatic cells to pluripotency. <i>Nature</i> , <b>2013</b> , 502, 65-70	50.4	401
92	A drug-inducible transgenic system for direct reprogramming of multiple somatic cell types. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 916-24	44.5	343

91	Dynamic stem cell states: naive to primed pluripotency in rodents and humans. <i>Nature Reviews Molecular Cell Biology</i> , <b>2016</b> , 17, 155-69	48.7	332
90	Reprogramming of murine fibroblasts to induced pluripotent stem cells with chemical complementation of Klf4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8912-7	11.5	331
89	Reprogramming of human peripheral blood cells to induced pluripotent stem cells. <i>Cell Stem Cell</i> , <b>2010</b> , 7, 20-4	18	318
88	Inhibition of the Nkp30 activating receptor by pp65 of human cytomegalovirus. <i>Nature Immunology</i> , <b>2005</b> , 6, 515-23	19.1	302
87	Single-gene transgenic mouse strains for reprogramming adult somatic cells. <i>Nature Methods</i> , <b>2010</b> , 7, 56-9	21.6	301
86	mA mRNA modifications are deposited in nascent pre-mRNA and are not required for splicing but do specify cytoplasmic turnover. <i>Genes and Development</i> , <b>2017</b> , 31, 990-1006	12.6	290
85	Metastable pluripotent states in NOD-mouse-derived ESCs. <i>Cell Stem Cell</i> , <b>2009</b> , 4, 513-24	18	288
84	The H3K27 demethylase Utx regulates somatic and germ cell epigenetic reprogramming. <i>Nature</i> , <b>2012</b> , 488, 409-13	50.4	271
83	CXCL12 expression by invasive trophoblasts induces the specific migration of CD16- human natural killer cells. <i>Blood</i> , <b>2003</b> , 102, 1569-77	2.2	268
82	H2AZ is enriched at polycomb complex target genes in ES cells and is necessary for lineage commitment. <i>Cell</i> , <b>2008</b> , 135, 649-61	56.2	264
81	Reprogramming factor stoichiometry influences the epigenetic state and biological properties of induced pluripotent stem cells. <i>Cell Stem Cell</i> , <b>2011</b> , 9, 588-98	18	256
80	Human Brain Organoids on a Chip Reveal the Physics of Folding. <i>Nature Physics</i> , <b>2018</b> , 14, 515-522	16.2	197
79	mA modification controls the innate immune response to infection by targeting type I interferons. <i>Nature Immunology</i> , <b>2019</b> , 20, 173-182	19.1	192
78	Deciphering the "mA Code" via Antibody-Independent Quantitative Profiling. <i>Cell</i> , <b>2019</b> , 178, 731-747.e16	16.2	180
77	The Role of mA/m-RNA Methylation in Stress Response Regulation. <i>Neuron</i> , <b>2018</b> , 99, 389-403.e9	13.9	170
76	Lymphatic vessels arise from specialized angioblasts within a venous niche. <i>Nature</i> , <b>2015</b> , 522, 56-61	50.4	151
75	The N-Methyladenosine mRNA Methylase METTL3 Controls Cardiac Homeostasis and Hypertrophy. <i>Circulation</i> , <b>2019</b> , 139, 533-545	16.7	149
74	RNF20 and USP44 regulate stem cell differentiation by modulating H2B monoubiquitylation. <i>Molecular Cell</i> , <b>2012</b> , 46, 662-73	17.6	147

73	Trained Memory of Human Uterine NK Cells Enhances Their Function in Subsequent Pregnancies. <i>Immunity</i> , <b>2018</b> , 48, 951-962.e5	32.3	142
72	Complexes of HLA-G protein on the cell surface are important for leukocyte Ig-like receptor-1 function. <i>Journal of Immunology</i> , <b>2003</b> , 171, 1343-51	5.3	124
71	Novel insights on human NK cells' immunological modalities revealed by gene expression profiling. <i>Journal of Immunology</i> , <b>2004</b> , 173, 6547-63	5.3	121
70	Novel APC-like properties of human NK cells directly regulate T cell activation. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 1612-23	15.9	120
69	Transient acquisition of pluripotency during somatic cell transdifferentiation with iPSC reprogramming factors. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 769-74	44.5	110
68	Evolutionary analysis across mammals reveals distinct classes of long non-coding RNAs. <i>Genome Biology</i> , <b>2016</b> , 17, 19	18.3	105
67	When killers become helpers. <i>Trends in Immunology</i> , <b>2007</b> , 28, 201-6	14.4	98
66	Stage-specific requirement for Mettl3-dependent m <sup>6</sup> A mRNA methylation during haematopoietic stem cell differentiation. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 700-709	23.4	96
65	Involvement of the CXCL12/CXCR4 pathway in the advanced liver disease that is associated with hepatitis C virus or hepatitis B virus. <i>European Journal of Immunology</i> , <b>2004</b> , 34, 1164-74	6.1	93
64	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. <i>Blood</i> , <b>2003</b> , 102, 1951-8	2.2	91
63	Pivotal role of CEACAM1 protein in the inhibition of activated decidual lymphocyte functions. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 943-953	15.9	87
62	Transgenic mice with defined combinations of drug-inducible reprogramming factors. <i>Nature Biotechnology</i> , <b>2009</b> , 27, 169-71	44.5	84
61	NKp46 Receptor-Mediated Interferon- $\gamma$ Production by Natural Killer Cells Increases Fibronectin 1 to Alter Tumor Architecture and Control Metastasis. <i>Immunity</i> , <b>2018</b> , 48, 107-119.e4	32.3	75
60	Expression of KIR2DL1 on the entire NK cell population: a possible novel immunodeficiency syndrome. <i>Blood</i> , <b>2004</b> , 103, 1965-6	2.2	59
59	Context-dependent functional compensation between Ythdf m <sup>6</sup> A reader proteins. <i>Genes and Development</i> , <b>2020</b> , 34, 1373-1391	12.6	59
58	CD24 tracks divergent pluripotent states in mouse and human cells. <i>Nature Communications</i> , <b>2015</b> , 6, 7329	17.4	56
57	The mechanisms controlling NK cell autoreactivity in TAP2-deficient patients. <i>Blood</i> , <b>2004</b> , 103, 1770-8	2.2	56
56	Co-ChIP enables genome-wide mapping of histone mark co-occurrence at single-molecule resolution. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 953-61	44.5	55

55	Reprogramming of postnatal neurons into induced pluripotent stem cells by defined factors. <i>Stem Cells</i> , <b>2011</b> , 29, 992-1000	5.8	51
54	Pivotal role of CEACAM1 protein in the inhibition of activated decidual lymphocyte functions. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 943-53	15.9	44
53	Spatiotemporal Proteomic Analysis of Stress Granule Disassembly Using APEX Reveals Regulation by SUMOylation and Links to ALS Pathogenesis. <i>Molecular Cell</i> , <b>2020</b> , 80, 876-891.e6	17.6	44
52	An essential role for UTX in resolution and activation of bivalent promoters. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 3659-74	20.1	41
51	Ex utero mouse embryogenesis from pre-gastrulation to late organogenesis. <i>Nature</i> , <b>2021</b> , 593, 119-124	50.4	38
50	The involvement of NK cells in ankylosing spondylitis. <i>International Immunology</i> , <b>2005</b> , 17, 837-45	4.9	37
49	Clonal allelic predetermination of immunoglobulin- $\mu$ rearrangement. <i>Nature</i> , <b>2012</b> , 490, 561-5	50.4	35
48	Failure to replicate the STAP cell phenomenon. <i>Nature</i> , <b>2015</b> , 525, E6-9	50.4	34
47	MTCH2-mediated mitochondrial fusion drives exit from naive pluripotency in embryonic stem cells. <i>Nature Communications</i> , <b>2018</b> , 9, 5132	17.4	34
46	Passage number is a major contributor to genomic structural variations in mouse iPSCs. <i>Stem Cells</i> , <b>2014</b> , 32, 2657-67	5.8	33
45	Generation of human endothelium in pig embryos deficient in ETV2. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 297-302	44.5	31
44	Reprogramming of somatic cell identity. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2008</b> , 73, 147-55	3.9	30
43	Biological function of the soluble CEACAM1 protein and implications in TAP2-deficient patients. <i>European Journal of Immunology</i> , <b>2004</b> , 34, 2138-48	6.1	30
42	Transcriptional programs that control expression of the autoimmune regulator gene Aire. <i>Nature Immunology</i> , <b>2017</b> , 18, 161-172	19.1	29
41	Special organization of the HLA-G protein on the cell surface. <i>Human Immunology</i> , <b>2003</b> , 64, 1011-6	2.3	28
40	Neutralizing Gatad2a-Chd4-Mbd3/NuRD Complex Facilitates Deterministic Induction of Naive Pluripotency. <i>Cell Stem Cell</i> , <b>2018</b> , 23, 412-425.e10	18	27
39	Harnessing soluble NK cell killer receptors for the generation of novel cancer immune therapy. <i>PLoS ONE</i> , <b>2008</b> , 3, e2150	3.7	26
38	Deterministic Somatic Cell Reprogramming Involves Continuous Transcriptional Changes Governed by Myc and Epigenetic-Driven Modules. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 328-341.e9	18	25

37	Relevance of iPSC-derived human PGC-like cells at the surface of embryoid bodies to prechemotaxis migrating PGCs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E9913-E9922	11.5	24
36	Proteomic analysis of human natural killer cells: insights on new potential NK immune functions. <i>Molecular Immunology</i> , <b>2005</b> , 42, 425-31	4.3	23
35	Functional aberrant expression of CCR2 receptor on chronically activated NK cells in patients with TAP-2 deficiency. <i>Blood</i> , <b>2005</b> , 106, 3465-73	2.2	22
34	Establishing the human naïve pluripotent state. <i>Current Opinion in Genetics and Development</i> , <b>2015</b> , 34, 35-45	4.9	19
33	RAS Regulates the Transition from Naive to Primed Pluripotent Stem Cells. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 1088-1101	8	18
32	Modulating cell state to enhance suspension expansion of human pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6369-6374	11.5	18
31	Principles of signaling pathway modulation for enhancing human naive pluripotency induction. <i>Cell Stem Cell</i> , <b>2021</b> , 28, 1549-1565.e12	18	16
30	The expression of the beta cell-derived autoimmune ligand for the killer receptor nkp46 is attenuated in type 2 diabetes. <i>PLoS ONE</i> , <b>2013</b> , 8, e74033	3.7	13
29	Stem cells: The quest for the perfect reprogrammed cell. <i>Nature</i> , <b>2014</b> , 511, 160-2	50.4	11
28	Increased NK cell immunity in a transgenic mouse model of NKp46 overexpression. <i>Scientific Reports</i> , <b>2017</b> , 7, 13090	4.9	10
27	Role of mA in Embryonic Stem Cell Differentiation and in Gametogenesis.. <i>Epigenomes</i> , <b>2020</b> , 4,	2.3	8
26	The germinal center reaction depends on RNA methylation and divergent functions of specific methyl readers. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	7
25	Stem Cell-Derived Human Gametes: The Public Engagement Imperative. <i>Trends in Molecular Medicine</i> , <b>2019</b> , 25, 165-167	11.5	5
24	Lucky iPSCs. <i>Genome Biology</i> , <b>2014</b> , 15, 109	18.3	5
23	Dynamic stem cell states: naive to primed pluripotency in rodents and humans		5
22	βCatenin safeguards the ground state of mouse pluripotency by strengthening the robustness of the transcriptional apparatus. <i>Science Advances</i> , <b>2020</b> , 6, eaba1593	14.3	5
21	Mechanism of noncoding RNA-associated N-methyladenosine recognition by an RNA processing complex during IgH DNA recombination. <i>Molecular Cell</i> , <b>2021</b> , 81, 3949-3964.e7	17.6	5
20	OCT4 impedes cell fate redirection by the melanocyte lineage master regulator MITF in mouse ESCs. <i>Nature Communications</i> , <b>2017</b> , 8, 1022	17.4	4

19	Universally non-immunogenic iPSCs. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 337-338	19	4
18	A multiplexed screening method for pluripotency. <i>Stem Cell Research</i> , <b>2017</b> , 23, 158-162	1.6	4
17	The STATs on naive iPSC reprogramming. <i>Cell Stem Cell</i> , <b>2010</b> , 7, 274-6	18	4
16	Deciphering the m6A code via quantitative profiling of m6A at single-nucleotide resolution		4
15	Modeling genetic epileptic encephalopathies using brain organoids. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e13610	12	4
14	Characterization of Endoplasmic Reticulum (ER) in Human Pluripotent Stem Cells Revealed Increased Susceptibility to Cell Death upon ER Stress. <i>Cells</i> , <b>2020</b> , 9,	7.9	3
13	High-Resolution Dissection of Conduive Reprogramming Trajectory to Ground State Pluripotency		3
12	Context-dependent functional compensation between Ythdf m6A readers		3
11	Generation of Human Primordial Germ Cell-like Cells at the Surface of Embryoid Bodies from Primed-pluripotency Induced Pluripotent Stem Cells. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
10	Hijacked by an oocyte: hierarchical molecular changes in somatic cell nuclear transfer. <i>Molecular Cell</i> , <b>2014</b> , 55, 507-9	17.6	2
9	Oct4 shuffles Sox partners to direct cell fate. <i>EMBO Journal</i> , <b>2013</b> , 32, 917-9	13	2
8	SUMOylation of linker histone H1 drives chromatin condensation and restriction of embryonic cell fate identity. <i>Molecular Cell</i> , <b>2021</b> ,	17.6	2
7	Mbd3/NuRD is a Key Inhibitory Module During the Induction and Maintenance of Naïve Pluripotency <b>2015</b> ,		2
6	YTHDF2 suppresses the plasmablast genetic program and promotes germinal center formation.. <i>Cell Reports</i> , <b>2022</b> , 39, 110778	10.6	2
5	Production and Analysis of Human Primordial Germ Cell-Like Cells. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2195, 125-145	1.4	1
4	Neutralizing Gatad2a-Chd4-Mbd3 Axis within the NuRD Complex Facilitates Deterministic Induction of Naïve Pluripotency		1
3	Tripartite Inhibition of SRC-WNT-PKC Signalling Consolidates Human Naïve Pluripotency		1
2	Retraction. Novel APC-like properties of human NK cells directly regulate T cell activation. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 1763	15.9	0

- 1 Control of Foxp3 induction and maintenance by sequential histone acetylation and DNA demethylation.. *Cell Reports*, **2021**, 37, 110124

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