

Kathy K Niakan

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

6,634
citations

172457

29
h-index

254184

43
g-index

52
all docs

52
docs citations

52
times ranked

7937
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced Pluripotent Stem Cells Generated from Patients with ALS Can Be Differentiated into Motor Neurons. <i>Science</i> , 2008, 321, 1218-1221.	12.6	1,826
2	Self-organization of the human embryo in the absence of maternal tissues. <i>Nature Cell Biology</i> , 2016, 18, 700-708.	10.3	516
3	Defining the three cell lineages of the human blastocyst by single-cell RNA-seq. <i>Development (Cambridge)</i> , 2015, 142, 3151-65.	2.5	343
4	BRACHYURY and CDX2 Mediate BMP-Induced Differentiation of Human and Mouse Pluripotent Stem Cells into Embryonic and Extraembryonic Lineages. <i>Cell Stem Cell</i> , 2011, 9, 144-155.	11.1	340
5	Genome editing reveals a role for OCT4 in human embryogenesis. <i>Nature</i> , 2017, 550, 67-73.	27.8	315
6	Analysis of human embryos from zygote to blastocyst reveals distinct gene expression patterns relative to the mouse. <i>Developmental Biology</i> , 2013, 375, 54-64.	2.0	298
7	Human pre-implantation embryo development. <i>Development (Cambridge)</i> , 2012, 139, 829-841.	2.5	289
8	Towards clinical application of pronuclear transfer to prevent mitochondrial DNA disease. <i>Nature</i> , 2016, 534, 383-386.	27.8	278
9	Sox17 promotes differentiation in mouse embryonic stem cells by directly regulating extraembryonic gene expression and indirectly antagonizing self-renewal. <i>Genes and Development</i> , 2010, 24, 312-326.	5.9	270
10	X-linked thrombocytopenia with thalassemia from a mutation in the amino finger of GATA-1 affecting DNA binding rather than FOG-1 interaction. <i>Blood</i> , 2002, 100, 2040-2045.	1.4	194
11	Optimal Timing of Inner Cell Mass Isolation Increases the Efficiency of Human Embryonic Stem Cell Derivation and Allows Generation of Sibling Cell Lines. <i>Cell Stem Cell</i> , 2009, 4, 103-106.	11.1	171
12	Initiation of a conserved trophectoderm program in human, cow and mouse embryos. <i>Nature</i> , 2020, 587, 443-447.	27.8	162
13	ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update. <i>Stem Cell Reports</i> , 2021, 16, 1398-1408.	4.8	134
14	Frequent loss of heterozygosity in CRISPR-Cas9 edited early human embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	123
15	Gata6 potently initiates reprogramming of pluripotent and differentiated cells to extraembryonic endoderm stem cells. <i>Genes and Development</i> , 2015, 29, 1239-1255.	5.9	120
16	A roadmap for the Human Developmental Cell Atlas. <i>Nature</i> , 2021, 597, 196-205.	27.8	114
17	Novel role for the orphan nuclear receptor Dax1 in embryogenesis, different from steroidogenesis. <i>Molecular Genetics and Metabolism</i> , 2006, 88, 261-271.	1.1	98
18	Derivation of extraembryonic endoderm stem (XEN) cells from mouse embryos and embryonic stem cells. <i>Nature Protocols</i> , 2013, 8, 1028-1041.	12.0	97

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19	Conversion from mouse embryonic to extra-embryonic endoderm stem cells reveals distinct differentiation capacities of pluripotent stem cell states. <i>Development (Cambridge)</i> , 2012, 139, 2866-2877.	2.5	87
20	SETDB1 Links the Meiotic DNA Damage Response to Sex Chromosome Silencing in Mice. <i>Developmental Cell</i> , 2018, 47, 645-659.e6.	7.0	68
21	Human Pre-gastrulation Development. <i>Current Topics in Developmental Biology</i> , 2018, 128, 295-338.	2.2	59
22	Human embryo research, stem cell-derived embryo models and inÂvitro gametogenesis: Considerations leading to the revised ISSCR guidelines. <i>Stem Cell Reports</i> , 2021, 16, 1416-1424.	4.8	59
23	Human germline genome editing. <i>Nature Cell Biology</i> , 2019, 21, 1479-1489.	10.3	45
24	IGF1-mediated human embryonic stem cell self-renewal recapitulates the embryonic niche. <i>Nature Communications</i> , 2020, 11, 764.	12.8	41
25	TRF2-independent chromosome end protection during pluripotency. <i>Nature</i> , 2021, 589, 103-109.	27.8	41
26	Activation of the Aryl Hydrocarbon Receptor Interferes with Early Embryonic Development. <i>Stem Cell Reports</i> , 2017, 9, 1377-1386.	4.8	39
27	Human Embryogenesis: A Comparative Perspective. <i>Annual Review of Cell and Developmental Biology</i> , 2020, 36, 411-440.	9.4	39
28	ILIRAPL1 is associated with mental retardation in patients with complex glycerol kinase deficiency who have deletions extending telomeric ofDAX1. <i>Human Mutation</i> , 2004, 24, 273-273.	2.5	36
29	Mapping of a syndrome of X-linked thrombocytopenia with thalassemia to band Xp11-12: further evidence of genetic heterogeneity of X-linked thrombocytopenia. <i>Blood</i> , 2000, 95, 2262-2268.	1.4	25
30	Pairing of Homologous Regions in the Mouse Genome Is Associated with Transcription but Not Imprinting Status. <i>PLoS ONE</i> , 2012, 7, e38983.	2.5	24
31	Jmjd2c/Kdm4c facilitates the assembly of essential enhancer-protein complexes at the onset of embryonic stem cell differentiation. <i>Development (Cambridge)</i> , 2017, 144, 567-579.	2.5	24
32	TGFÎ² signalling is required to maintain pluripotency of human naÃve pluripotent stem cells. <i>ELife</i> , 2021, 10, .	6.0	24
33	Effects of thyroid hormone on mitochondria and metabolism of human preimplantation embryos. <i>Stem Cells</i> , 2020, 38, 369-381.	3.2	20
34	Dynamic Proteomic Profiling of Extra-Embryonic Endoderm Differentiation in Mouse Embryonic Stem Cells. <i>Stem Cells</i> , 2015, 33, 2712-2725.	3.2	16
35	The BCL-2 pathway preserves mammalian genome integrity by eliminating recombination-defective oocytes. <i>Nature Communications</i> , 2020, 11, 2598.	12.8	16
36	KLF17 promotes human naÃve pluripotency but is not required for its establishment. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	13

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37	Defining the three cell lineages of the human blastocyst by single-cell RNA-seq. <i>Mechanisms of Development</i> , 2017, 145, S26.	1.7	4
38	GIANI “ open-source software for automated analysis of 3D microscopy images. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	4
39	Generating CRISPR-Cas9-Mediated Null Mutations and Screening Targeting Efficiency in Human Pluripotent Stem Cells. <i>Current Protocols</i> , 2021, 1, e232.	2.9	2
40	Self-Organization of the Human Embryo in the Absence of Maternal Tissues. <i>Obstetrical and Gynecological Survey</i> , 2016, 71, 718-719.	0.4	0