

Guoping Fan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

13,182
citations

52
h-index

114
g-index

124
ext. papers

15,490
ext. citations

9.9
avg, IF

6.21
L-index

#	Paper	IF	Citations
109	DNA methylation and its basic function. <i>Neuropsychopharmacology</i> , 2013 , 38, 23-38	8.7	1427
108	DNA methylation-related chromatin remodeling in activity-dependent BDNF gene regulation. <i>Science</i> , 2003 , 302, 890-3	33.3	1187
107	Dnmt1 and Dnmt3a maintain DNA methylation and regulate synaptic function in adult forebrain neurons. <i>Nature Neuroscience</i> , 2010 , 13, 423-30	25.5	759
106	Neurogenin promotes neurogenesis and inhibits glial differentiation by independent mechanisms. <i>Cell</i> , 2001 , 104, 365-76	56.2	648
105	Genetic programs in human and mouse early embryos revealed by single-cell RNA sequencing. <i>Nature</i> , 2013 , 500, 593-7	50.4	622
104	Conditional deletion of brain-derived neurotrophic factor in the postnatal brain leads to obesity and hyperactivity. <i>Molecular Endocrinology</i> , 2001 , 15, 1748-57		620
103	Distribution, recognition and regulation of non-CpG methylation in the adult mammalian brain. <i>Nature Neuroscience</i> , 2014 , 17, 215-22	25.5	536
102	Promoter CpG methylation contributes to ES cell gene regulation in parallel with Oct4/Nanog, PcG complex, and histone H3 K4/K27 trimethylation. <i>Cell Stem Cell</i> , 2008 , 2, 160-9	18	362
101	DNA methylation controls the timing of astroglialogenesis through regulation of JAK-STAT signaling. <i>Development (Cambridge)</i> , 2005 , 132, 3345-56	6.6	334
100	DNA hypomethylation perturbs the function and survival of CNS neurons in postnatal animals. <i>Journal of Neuroscience</i> , 2001 , 21, 788-97	6.6	311
99	Dynamic expression of de novo DNA methyltransferases Dnmt3a and Dnmt3b in the central nervous system. <i>Journal of Neuroscience Research</i> , 2005 , 79, 734-46	4.4	306
98	A positive autoregulatory loop of Jak-STAT signaling controls the onset of astroglialogenesis. <i>Nature Neuroscience</i> , 2005 , 8, 616-25	25.5	302
97	CD133+ neural stem cells in the ependyma of mammalian postnatal forebrain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1026-31	11.5	266
96	Exercise impacts brain-derived neurotrophic factor plasticity by engaging mechanisms of epigenetic regulation. <i>European Journal of Neuroscience</i> , 2011 , 33, 383-90	3.5	233
95	Pancreatic β cell identity is maintained by DNA methylation-mediated repression of Arx. <i>Developmental Cell</i> , 2011 , 20, 419-29	10.2	201
94	Epigenetic regulation of neural gene expression and neuronal function. <i>Pediatric Research</i> , 2007 , 61, 58R-63R	3.2	200
93	BCOR regulates mesenchymal stem cell function by epigenetic mechanisms. <i>Nature Cell Biology</i> , 2009 , 11, 1002-9	23.4	187

92	X-inactivation in female human embryonic stem cells is in a nonrandom pattern and prone to epigenetic alterations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4709-14	11.5	173
91	Simultaneous profiling of transcriptome and DNA methylome from a single cell. <i>Genome Biology</i> , 2016 , 17, 88	18.3	169
90	Challenges and emerging directions in single-cell analysis. <i>Genome Biology</i> , 2017 , 18, 84	18.3	166
89	Hydrogel matrix to support stem cell survival after brain transplantation in stroke. <i>Neurorehabilitation and Neural Repair</i> , 2010 , 24, 636-44	4.7	166
88	Notch signaling promotes astrogliogenesis via direct CSL-mediated glial gene activation. <i>Journal of Neuroscience Research</i> , 2002 , 69, 848-60	4.4	159
87	Signed weighted gene co-expression network analysis of transcriptional regulation in murine embryonic stem cells. <i>BMC Genomics</i> , 2009 , 10, 327	4.5	155
86	Molecular signature of primary retinal pigment epithelium and stem-cell-derived RPE cells. <i>Human Molecular Genetics</i> , 2010 , 19, 4229-38	5.6	152
85	The role of DNA methylation in the central nervous system and neuropsychiatric disorders. <i>International Review of Neurobiology</i> , 2009 , 89, 67-84	4.4	138
84	Stage-specific roles for tet1 and tet2 in DNA demethylation in primordial germ cells. <i>Cell Stem Cell</i> , 2013 , 12, 470-8	18	137
83	Targeted disruption of NDST-1 gene leads to pulmonary hypoplasia and neonatal respiratory distress in mice. <i>FEBS Letters</i> , 2000 , 467, 7-11	3.8	137
82	DNA hypomethylation restricted to the murine forebrain induces cortical degeneration and impairs postnatal neuronal maturation. <i>Human Molecular Genetics</i> , 2009 , 18, 2875-88	5.6	134
81	Role of Tet1 and 5-hydroxymethylcytosine in cocaine action. <i>Nature Neuroscience</i> , 2015 , 18, 536-44	25.5	130
80	Neurotrophin-3 is required for proper cerebellar development. <i>Nature Neuroscience</i> , 1999 , 2, 115-7	25.5	126
79	A sensitive mass spectrometry method for simultaneous quantification of DNA methylation and hydroxymethylation levels in biological samples. <i>Analytical Biochemistry</i> , 2011 , 412, 203-9	3.1	124
78	The naive state of human pluripotent stem cells: a synthesis of stem cell and preimplantation embryo transcriptome analyses. <i>Cell Stem Cell</i> , 2014 , 15, 410-415	18	117
77	Methyltransferase Dnmt3a upregulates HDAC9 to deacetylate the kinase TBK1 for activation of antiviral innate immunity. <i>Nature Immunology</i> , 2016 , 17, 806-15	19.1	113
76	Stella safeguards the oocyte methylome by preventing de novo methylation mediated by DNMT1. <i>Nature</i> , 2018 , 564, 136-140	50.4	107
75	Common dysregulation network in the human prefrontal cortex underlies two neurodegenerative diseases. <i>Molecular Systems Biology</i> , 2014 , 10, 743	12.2	101

74	Dependence of developing group Ia afferents on neurotrophin-3. <i>Journal of Comparative Neurology</i> , 1995 , 363, 307-20	3.4	93
73	Endoprotease-mediated intracellular protein delivery using nanocapsules. <i>ACS Nano</i> , 2011 , 5, 1385-94	16.7	88
72	Knocking the NT4 gene into the BDNF locus rescues BDNF deficient mice and reveals distinct NT4 and BDNF activities. <i>Nature Neuroscience</i> , 2000 , 3, 350-7	25.5	85
71	Methyl-CpG binding proteins in the nervous system. <i>Cell Research</i> , 2005 , 15, 255-61	24.7	84
70	Effects of cerebral ischemia in mice lacking DNA methyltransferase 1 in post-mitotic neurons. <i>NeuroReport</i> , 2001 , 12, 3763-6	1.7	84
69	The population genomics of rhesus macaques (<i>Macaca mulatta</i>) based on whole-genome sequences. <i>Genome Research</i> , 2016 , 26, 1651-1662	9.7	76
68	The ligase PIAS1 restricts natural regulatory T cell differentiation by epigenetic repression. <i>Science</i> , 2010 , 330, 521-5	33.3	75
67	Single-cell RNA-seq reveals distinct injury responses in different types of DRG sensory neurons. <i>Scientific Reports</i> , 2016 , 6, 31851	4.9	73
66	Abnormal CpG island methylation occurs during in vitro differentiation of human embryonic stem cells. <i>Human Molecular Genetics</i> , 2006 , 15, 2623-35	5.6	70
65	Reversible Regulation of Promoter and Enhancer Histone Landscape by DNA Methylation in Mouse Embryonic Stem Cells. <i>Cell Reports</i> , 2016 , 17, 289-302	10.6	65
64	Repression of retrotransposal elements in mouse embryonic stem cells is primarily mediated by a DNA methylation-independent mechanism. <i>Journal of Biological Chemistry</i> , 2010 , 285, 21082-91	5.4	61
63	Transcriptional repression by the BRG1-SWI/SNF complex affects the pluripotency of human embryonic stem cells. <i>Stem Cell Reports</i> , 2014 , 3, 460-74	8	60
62	BDNF supports mammalian chemoafferent neurons in vitro and following peripheral target removal in vivo. <i>Developmental Biology</i> , 1994 , 166, 801-11	3.1	60
61	Progressive alopecia reveals decreasing stem cell activation probability during aging of mice with epidermal deletion of DNA methyltransferase 1. <i>Journal of Investigative Dermatology</i> , 2012 , 132, 2681-90	4.3	59
60	Functional Characterization of DNA Methylation in the Oligodendrocyte Lineage. <i>Cell Reports</i> , 2016 , 15, 748-760	10.6	58
59	Conditional Dnmt1 deletion in dorsal forebrain disrupts development of somatosensory barrel cortex and thalamocortical long-term potentiation. <i>Thalamus & Related Systems</i> , 2005 , 3, 227-233		56
58	DNA methylation in cell differentiation and reprogramming: an emerging systematic view. <i>Regenerative Medicine</i> , 2010 , 5, 531-44	2.5	54
57	Dnmt1-dependent DNA methylation is essential for photoreceptor terminal differentiation and retinal neuron survival. <i>Cell Death and Disease</i> , 2012 , 3, e427	9.8	51

56	Variations of X chromosome inactivation occur in early passages of female human embryonic stem cells. <i>PLoS ONE</i> , 2010 , 5, e11330	3.7	50
55	Identification of novel molecular markers through transcriptomic analysis in human fetal and adult corneal endothelial cells. <i>Human Molecular Genetics</i> , 2013 , 22, 1271-9	5.6	47
54	Dnmt3a regulates both proliferation and differentiation of mouse neural stem cells. <i>Journal of Neuroscience Research</i> , 2012 , 90, 1883-91	4.4	44
53	Directed differentiation of human embryonic stem cells to corneal endothelial cell-like cells: A transcriptomic analysis. <i>Experimental Eye Research</i> , 2016 , 151, 107-14	3.7	43
52	Copy number variant analysis of human embryonic stem cells. <i>Stem Cells</i> , 2008 , 26, 1484-9	5.8	42
51	Single-cell RNA sequencing reveals heterogeneous tumor and immune cell populations in early-stage lung adenocarcinomas harboring EGFR mutations. <i>Oncogene</i> , 2021 , 40, 355-368	9.2	42
50	Dnmt3a in Sim1 neurons is necessary for normal energy homeostasis. <i>Journal of Neuroscience</i> , 2014 , 34, 15288-96	6.6	34
49	Juvenile neurogenesis makes essential contributions to adult brain structure and plays a sex-dependent role in fear memories. <i>Frontiers in Behavioral Neuroscience</i> , 2012 , 6, 3	3.5	33
48	Neurotrophin-3 modulates noradrenergic neuron function and opiate withdrawal. <i>Molecular Psychiatry</i> , 2001 , 6, 593-604	15.1	31
47	A panel of CpG methylation sites distinguishes human embryonic stem cells and induced pluripotent stem cells. <i>Stem Cell Reports</i> , 2014 , 2, 36-43	8	30
46	DNA methylation protects against cisplatin-induced kidney injury by regulating specific genes, including interferon regulatory factor 8. <i>Kidney International</i> , 2017 , 92, 1194-1205	9.9	29
45	PIAS1 regulates breast tumorigenesis through selective epigenetic gene silencing. <i>PLoS ONE</i> , 2014 , 9, e89464	3.7	27
44	Functional modules distinguish human induced pluripotent stem cells from embryonic stem cells. <i>Stem Cells and Development</i> , 2011 , 20, 1937-50	4.4	25
43	Identification of miRNA signatures during the differentiation of hESCs into retinal pigment epithelial cells. <i>PLoS ONE</i> , 2012 , 7, e37224	3.7	25
42	Integrated transcriptome analysis of human iPS cells derived from a fragile X syndrome patient during neuronal differentiation. <i>Science China Life Sciences</i> , 2016 , 59, 1093-1105	8.5	24
41	Bisphenol A Represses Dopaminergic Neuron Differentiation from Human Embryonic Stem Cells through Downregulating the Expression of Insulin-like Growth Factor 1. <i>Molecular Neurobiology</i> , 2017 , 54, 3798-3812	6.2	23
40	Single-cell RNA sequencing reveals regulatory mechanism for trophoblast cell-fate divergence in human peri-implantation conceptuses. <i>PLoS Biology</i> , 2019 , 17, e3000187	9.7	23
39	Increased short-term food satiation and sensitivity to cholecystokinin in neurotrophin-4 knock-in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R1044-53	3.2	21

38	Selective demethylation and altered gene expression are associated with ICF syndrome in human-induced pluripotent stem cells and mesenchymal stem cells. <i>Human Molecular Genetics</i> , 2014 , 23, 6448-57	5.6	20
37	Epigenetic regulation of X-inactivation in human embryonic stem cells. <i>Epigenetics</i> , 2009 , 4, 19-22	5.7	20
36	Single-Cell RNA Sequencing of hESC-Derived 3D Retinal Organoids Reveals Novel Genes Regulating RPC Commitment in Early Human Retinogenesis. <i>Stem Cell Reports</i> , 2019 , 13, 747-760	8	19
35	Recent advances in preimplantation genetic diagnosis and screening. <i>Journal of Assisted Reproduction and Genetics</i> , 2016 , 33, 1129-34	3.4	18
34	Integrated analysis of DNA methylation and RNA transcriptome during in vitro differentiation of human pluripotent stem cells into retinal pigment epithelial cells. <i>PLoS ONE</i> , 2014 , 9, e91416	3.7	18
33	Polyethylene glycol-based protein nanocapsules for functional delivery of a differentiation transcription factor. <i>Biomaterials</i> , 2012 , 33, 5459-67	15.6	17
32	Cyclophilin a protects Peg3 from hypermethylation and inactive histone modification. <i>Journal of Biological Chemistry</i> , 2006 , 281, 39081-7	5.4	17
31	Loss of KDM4B exacerbates bone-fat imbalance and mesenchymal stromal cell exhaustion in skeletal aging. <i>Cell Stem Cell</i> , 2021 , 28, 1057-1073.e7	18	16
30	Neurotrophin-3 and trkC in muscle are non-essential for the development of mouse muscle spindles. <i>NeuroReport</i> , 1998 , 9, 905-9	1.7	15
29	A novel immunodeficient rat model supports human lung cancer xenografts. <i>FASEB Journal</i> , 2019 , 33, 140-150	0.9	14
28	X chromosome inactivation in human and mouse pluripotent stem cells. <i>Human Genetics</i> , 2011 , 130, 217-23	13	13
27	Stroke damage in mice after knocking the neurotrophin-4 gene into the brain-derived neurotrophic factor locus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 23, 150-3	7.3	13
26	Normal eye-specific patterning of retinal inputs to murine subcortical visual nuclei in the absence of brain-derived neurotrophic factor. <i>Visual Neuroscience</i> , 2005 , 22, 27-36	1.7	13
25	Stem cell-based therapy of corneal epithelial and endothelial diseases. <i>Regenerative Medicine</i> , 2015 , 10, 495-504	2.5	12
24	Supramolecular nanosubstrate-mediated delivery for reprogramming and transdifferentiation of mammalian cells. <i>Small</i> , 2015 , 11, 2499-504	11	11
23	A role for p75 receptor in neurotrophin-3 functioning during the development of limb proprioception. <i>Neuroscience</i> , 1999 , 90, 259-68	3.9	11
22	The size of cell-free mitochondrial DNA in blood is inversely correlated with tumor burden in cancer patients. <i>Precision Clinical Medicine</i> , 2019 , 2, 131-139	6.7	10
21	The 14th Ile residue is essential for Leptin function in regulating energy homeostasis in rat. <i>Scientific Reports</i> , 2016 , 6, 28508	4.9	8

20	Simultaneous Profiling of mRNA Transcriptome and DNA Methylome from a Single Cell. <i>Methods in Molecular Biology</i> , 2019 , 1979, 363-377	1.4	7
19	Evaluation of x-inactivation status and cytogenetic stability of human dermal fibroblasts after long-term culture. <i>International Journal of Cell Biology</i> , 2010 , 2010, 289653	2.6	7
18	Generation and characterization of a hypothyroidism rat model with truncated thyroid stimulating hormone receptor. <i>Scientific Reports</i> , 2018 , 8, 4004	4.9	6
17	Epigenetic modifications in distinction: histone versus DNA methylation in ESCs. <i>Cell Stem Cell</i> , 2011 , 8, 604-5	18	5
16	Genome-wide DNA methylation profiling: the mDIP-chip technology. <i>Methods in Molecular Biology</i> , 2009 , 568, 203-16	1.4	5
15	Stroke Damage in Mice After Knocking the Neutrophin-4 Gene Into the Brain-Derived Neurotrophic Factor Locus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 150-153	7.3	5
14	Single-cell RNA cap and tail sequencing (scRCAT-seq) reveals subtype-specific isoforms differing in transcript demarcation. <i>Nature Communications</i> , 2020 , 11, 5148	17.4	5
13	Stem cell-based treatment of kidney diseases. <i>Experimental Biology and Medicine</i> , 2020 , 245, 902-910	3.7	4
12	Single-cell genomics: An overview. <i>Frontiers in Biology</i> , 2013 , 8, 569-576		3
11	Establishment of human-embryonic-stem-cell line from mosaic trisomy 9 embryo. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2015 , 54, 505-11	1.6	3
10	Characterizing disease progression of nonalcoholic steatohepatitis in -deficient rats by integrated transcriptome analysis. <i>Experimental Biology and Medicine</i> , 2021 , 246, 678-687	3.7	3
9	Single-cell analysis of nonhuman primate preimplantation development in comparison to humans and mice. <i>Developmental Dynamics</i> , 2021 , 250, 974-985	2.9	3
8	Ethanol Inactivated Mouse Embryonic Fibroblasts Maintain the Self-Renew and Proliferation of Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2015 , 10, e0130332	3.7	2
7	X-chromosome dosage compensation dynamics in human early embryos		2
6	Single Molecule RNA Localization and Translation in the Mammalian Oocyte and Embryo. <i>Journal of Molecular Biology</i> , 2021 , 433, 167166	6.5	2
5	Single-Cell RNA Sequencing Reveals Regulatory Mechanism for Trophoblast Cell-Fate Divergence in Human Peri-Implantation Embryo		1
4	Challenges and emerging directions in single-cell analysis		1
3	Organoids as Novel Models for Embryo Implantation Study. <i>Reproductive Sciences</i> , 2021 , 28, 1637-1643	3	1

2 Reversing neural circuit and behavior deficit in mice exposed to maternal inflammation by Zika virus. *EMBO Reports*, **2021**, 22, e51978

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1 Epigenetics of X Chromosome Inactivation **2011**, 341-351