

Guangdun Peng

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,865
citations

279798
23
h-index

206112
48
g-index

69
all docs

69
docs citations

69
times ranked

5072
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate identification of A-to-I RNA editing in human by transcriptome sequencing. <i>Genome Research</i> , 2012, 22, 142-150.	5.5	297
2	Lung regeneration by multipotent stem cells residing at the bronchioalveolar-duct junction. <i>Nature Genetics</i> , 2019, 51, 728-738.	21.4	231
3	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. <i>Cell Stem Cell</i> , 2018, 23, 586-598.e8.	11.1	215
4	The transcription factor Pou3f1 promotes neural fate commitment via activation of neural lineage genes and inhibition of external signaling pathways. <i>ELife</i> , 2014, 3, .	6.0	213
5	Spatial transcriptomic analysis of cryosectioned tissue samples with Geo-seq. <i>Nature Protocols</i> , 2017, 12, 566-580.	12.0	213
6	Spatial Transcriptome for the Molecular Annotation of Lineage Fates and Cell Identity in Mid-gastrula Mouse Embryo. <i>Developmental Cell</i> , 2016, 36, 681-697.	7.0	201
7	Analysis of Transcriptome Complexity Through RNA Sequencing in Normal and Failing Murine Hearts. <i>Circulation Research</i> , 2011, 109, 1332-1341.	4.5	194
8	Molecular architecture of lineage allocation and tissue organization in early mouse embryo. <i>Nature</i> , 2019, 572, 528-532.	27.8	163
9	Dissecting primate early post-implantation development using long-term in vitro embryo culture. <i>Science</i> , 2019, 366, .	12.6	137
10	Single-Cell RNA-Seq Reveals Cellular Heterogeneity of Pluripotency Transition and X Chromosome Dynamics during Early Mouse Development. <i>Cell Reports</i> , 2019, 26, 2593-2607.e3.	6.4	102
11	Identification of allele-specific alternative mRNA processing via transcriptome sequencing. <i>Nucleic Acids Research</i> , 2012, 40, e104-e104.	14.5	74
12	Mouse knockout models reveal largely dispensable but context-dependent functions of lncRNAs during development. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 175-178.	3.3	48
13	Sequential formation and resolution of multiple rosettes drive embryo remodelling after implantation. <i>Nature Cell Biology</i> , 2018, 20, 1278-1289.	10.3	48
14	A 3D Atlas of Hematopoietic Stem and Progenitor Cell Expansion by Multi-dimensional RNA-Seq Analysis. <i>Cell Reports</i> , 2019, 27, 1567-1578.e5.	6.4	45
15	A secreted microRNA disrupts autophagy in distinct tissues of <i>Caenorhabditis elegans</i> upon ageing. <i>Nature Communications</i> , 2019, 10, 4827.	12.8	40
16	VGLL4 plays a critical role in heart valve development and homeostasis. <i>PLoS Genetics</i> , 2019, 15, e1007977.	3.5	40
17	Imbalance of Excitatory/Inhibitory Neuron Differentiation in Neurodevelopmental Disorders with an NR2F1 Point Mutation. <i>Cell Reports</i> , 2020, 31, 107521.	6.4	37
18	CRISPR-Cas9-mediated genome editing in one blastomere of two-cell embryos reveals a novel Tet3 function in regulating neocortical development. <i>Cell Research</i> , 2017, 27, 815-829.	12.0	35

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19	Conserved Epigenetic Regulatory Logic Infers Genes Governing Cell Identity. <i>Cell Systems</i> , 2020, 11, 625-639.e13.	6.2	31
20	Using Single-Cell and Spatial Transcriptomes to Understand Stem Cell Lineage Specification During Early Embryo Development. <i>Annual Review of Genomics and Human Genetics</i> , 2020, 21, 163-181.	6.2	31
21	Connecting past and present: single-cell lineage tracing. <i>Protein and Cell</i> , 2022, 13, 790-807.	11.0	30
22	SIP30 Is Regulated by ERK in Peripheral Nerve Injury-induced Neuropathic Pain. <i>Journal of Biological Chemistry</i> , 2009, 284, 30138-30147.	3.4	29
23	Transcriptome analysis reveals determinant stages controlling human embryonic stem cell commitment to neuronal cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 19590-19604.	3.4	29
24	Nkx2.5 marks angioblasts that contribute to hemogenic endothelium of the endocardium and dorsal aorta. <i>ELife</i> , 2017, 6, .	6.0	27
25	TGF- β signaling pathway in early mouse development and embryonic stem cells. <i>Acta Biochimica Et Biophysica Sinica</i> , 2018, 50, 68-73.	2.0	27
26	Silencing of developmental genes by H3K27me3 and DNA methylation reflects the discrepant plasticity of embryonic and extraembryonic lineages. <i>Cell Research</i> , 2018, 28, 593-596.	12.0	26
27	Histone deacetylation promotes mouse neural induction by restricting Nodal-dependent mesendoderm fate. <i>Nature Communications</i> , 2015, 6, 6830.	12.8	25
28	Ectodermal progenitors derived from epiblast stem cells by inhibition of Nodal signaling. <i>Journal of Molecular Cell Biology</i> , 2015, 7, 455-465.	3.3	24
29	Intrinsic regulations in neural fate commitment. <i>Development Growth and Differentiation</i> , 2015, 57, 109-120.	1.5	24
30	Role of SIP30 in the development and maintenance of peripheral nerve injury-induced neuropathic pain. <i>Pain</i> , 2009, 146, 130-140.	4.2	22
31	Dynamics of Wnt activity on the acquisition of ectoderm potency in epiblast stem cells. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	18
32	Suppressing Nodal Signaling Activity Predisposes Ectodermal Differentiation of Epiblast Stem Cells. <i>Stem Cell Reports</i> , 2018, 11, 43-57.	4.8	16
33	Distinct enhancer signatures in the mouse gastrula delineate progressive cell fate continuum during embryo development. <i>Cell Research</i> , 2019, 29, 911-926.	12.0	16
34	Hormones induce the formation of luminal-derived basal cells in the mammary gland. <i>Cell Research</i> , 2019, 29, 206-220.	12.0	14
35	Transcriptional network dynamics during the progression of pluripotency revealed by integrative statistical learning. <i>Nucleic Acids Research</i> , 2020, 48, 1828-1842.	14.5	14
36	Dynamic Heterogeneity of Brachyury in Mouse Epiblast Stem Cells Mediates Distinct Response to Extrinsic Bone Morphogenetic Protein (BMP) Signaling. <i>Journal of Biological Chemistry</i> , 2016, 291, 15212-15225.	3.4	13

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37	Base editing-mediated perturbation of endogenous PKM1/2 splicing facilitates isoform-specific functional analysis in vitro and in vivo. <i>Cell Proliferation</i> , 2021, 54, e13096.	5.3	10
38	RNA helicase DDX5 acts as a critical regulator for survival of neonatal mouse gonocytes. <i>Cell Proliferation</i> , 2021, 54, e13000.	5.3	8
39	Genome-wide ChIP-seq and RNA-seq analyses of Pou3f1 during mouse pluripotent stem cell neural fate commitment. <i>Genomics Data</i> , 2015, 5, 375-377.	1.3	7
40	Mouse gastrulation: Attributes of transcription factor regulatory network for epiblast patterning. <i>Development Growth and Differentiation</i> , 2018, 60, 463-472.	1.5	6
41	A gene regulatory network anchored by LIM homeobox 1 for embryonic head development. <i>Genesis</i> , 2018, 56, e23246.	1.6	6
42	C-KIT Expression Distinguishes Fetal from Postnatal Skeletal Progenitors. <i>Stem Cell Reports</i> , 2020, 14, 614-630.	4.8	6
43	The genome-wide molecular regulation of mouse gastrulation embryo. <i>Science China Life Sciences</i> , 2017, 60, 363-369.	4.9	5
44	Lineage specification of early embryos and embryonic stem cells at the dawn of enabling technologies. <i>National Science Review</i> , 2017, 4, 533-542.	9.5	5
45	Regulatory network characterization in development: challenges and opportunities. <i>F1000Research</i> , 2018, 7, 1477.	1.6	4
46	AutoGenome: An AutoML tool for genomic research. <i>Artificial Intelligence in the Life Sciences</i> , 2021, 1, 100017.	2.2	4
47	Embryonic vascular establishment requires protein C receptor-expressing endothelial progenitors. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	4
48	Genome-wide analysis of histone acetylation dynamics during mouse embryonic stem cell neural differentiation. <i>Genomics Data</i> , 2015, 5, 15-16.	1.3	3
49	Expression of the IgSF protein Kirre in the rat central nervous system. <i>Life Sciences</i> , 2011, 88, 590-597.	4.3	2
50	Corrigendum to "Role of SIP30 in the development and maintenance of peripheral nerve injury-induced neuropathic pain" [Pain 146 (2009) 130-140]. <i>Pain</i> , 2010, 148, 176.	4.2	1
51	Comments on "Molecular architecture of lineage allocation and tissue organization in early mouse embryo". <i>Journal of Molecular Cell Biology</i> , 2019, 11, 1024-1025.	3.3	0
52	Cardiac Directed Differentiation Using Small Molecule WNT Modulation at Single-Cell Resolution. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
53	Single-Cell Rna-Seq Reveals Cellular Heterogeneity of Pluripotency Transition and X-Chromosome Dynamics During Early Postimplantation Mouse Development. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
54	A 3D Atlas of Hematopoietic Stem and Progenitor Cell Expansion by Multi-Dimensional RNA-Seq Analysis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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55	SUN-050 The Evolutionarily Conserved Function of COUP-TF Genes in the Differentiation of Photoreceptor Cells in the Retina. Journal of the Endocrine Society, 2019, 3, .	0.2	0