Antonio Scialdone

List of Publications by Year
in descending order

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39 papers	5,558 citations	331670 21 h-index	289244 40 g-index
53 all docs	53 docs citations	53 times ranked	9192 citing authors

#	Article	IF	Citations
1	Computational analysis of cell-to-cell heterogeneity in single-cell RNA-sequencing data reveals hidden subpopulations of cells. Nature Biotechnology, 2015, 33, 155-160.	17.5	1,068
2	Adipocyte Accumulation in the Bone Marrow during Obesity and Aging Impairs Stem Cell-Based Hematopoietic and Bone Regeneration. Cell Stem Cell, 2017, 20, 771-784.e6.	11.1	566
3	Complex multi-enhancer contacts captured by genome architecture mapping. Nature, 2017, 543, 519-524.	27.8	562
4	Normalizing single-cell RNA sequencing data: challenges and opportunities. Nature Methods, 2017, 14, 565-571.	19.0	405
5	Heterogeneity in Oct4 and Sox2 Targets Biases Cell Fate in 4-Cell Mouse Embryos. Cell, 2016, 165, 61-74.	28.9	385
6	Computational assignment of cell-cycle stage from single-cell transcriptome data. Methods, 2015, 85, 54-61.	3.8	381
7	Single-Cell Landscape of Transcriptional Heterogeneity and Cell Fate Decisions during Mouse Early Gastrulation. Cell Reports, 2017, 20, 1215-1228.	6.4	290
8	Resolving early mesoderm diversification through single-cell expression profiling. Nature, 2016, 535, 289-293.	27.8	261
9	Single-cell transcriptomic characterization of a gastrulating human embryo. Nature, 2021, 600, 285-289.	27.8	202
10	Pluripotent state transitions coordinate morphogenesis in mouse and human embryos. Nature, 2017, 552, 239-243.	27.8	193
11	Using singleâ€cell genomics to understand developmental processes and cell fate decisions. Molecular Systems Biology, 2018, 14, e8046.	7.2	190
12	Hierarchical deconstruction of mouse olfactory sensory neurons: from whole mucosa to single-cell RNA-seq. Scientific Reports, 2015, 5, 18178.	3.3	148
13	Epsteinâ€“Barr virus reprograms human B lymphocytes immediately in the prelatent phase of infection. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16046-16055.	7.1	138
14	Arabidopsis plants perform arithmetic division to prevent starvation at night. ELife, 2013, 2, e00669.	6.0	134
15	Defining murine organogenesis at single-cell resolution reveals a role for the leukotriene pathway in regulating blood progenitor formation. Nature Cell Biology, 2018, 20, 127-134.	10.3	112
16	Characterization of a common progenitor pool of the epicardium and myocardium. Science, 2021, 371, .	12.6	88
17	Retinoic acid signaling is critical during the totipotency window in early mammalian development. Nature Structural and Molecular Biology, 2021, 28, 521-532.	8.2	42
18	DNA replication fork speed underlies cell fate changes and promotes reprogramming. Nature Genetics, 2022, 54, 318-327.	21.4	38

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19	How plants manage food reserves at night: quantitative models and open questions. Frontiers in Plant Science, 2015, 6, 204.	3.6	35
20	Cell competition acts as a purifying selection to eliminate cells with mitochondrial defects during early mouse development. Nature Metabolism, 2021, 3, 1091-1108.	11.9	33
21	Conformation Regulation of the X Chromosome Inactivation Center: A Model. PLoS Computational Biology, 2011, 7, e1002229.	3.2	29
22	COMUNET: a tool to explore and visualize intercellular communication. Bioinformatics, 2020, 36, 4296-4300.	4.1	22
23	Mosaic autosomal aneuploidies are detectable from single-cell RNAseq data. BMC Genomics, 2017, 18, 904.	2.8	21
24	Mechanics and Dynamics of X-Chromosome Pairing at X Inactivation. PLoS Computational Biology, 2008, 4, e1000244.	3.2	20
25	Spatiotemporal patterning of EpCAM is important for murine embryonic endo- and mesodermal differentiation. Scientific Reports, 2018, 8, 1801.	3.3	20
26	A 3D transcriptomics atlas of the mouse nose sheds light on the anatomical logic of smell. Cell Reports, 2022, 38, 110547.	6.4	16
27	Polymer physics, scaling and heterogeneity in the spatial organisation of chromosomes in the cell nucleus. Soft Matter, 2013, 9, 8631.	2.7	15
28	Polymer models of chromatin organization. Frontiers in Genetics, 2013, 4, 113.	2.3	15
29	Measuring and Modeling Single-Cell Heterogeneity and Fate Decision in Mouse Embryos. Annual Review of Genetics, 2020, 54, 167-187.	7.6	14
30	Diffusion-based DNA target colocalization by thermodynamic mechanisms. Development (Cambridge), 2010, 137, 3877-3885.	2.5	8
31	Colocalization of Multiple DNA Loci: A Physical Mechanism. Biophysical Journal, 2012, 103, 2223-2232.	0.5	8
32	Differential regulation of the immune system in a brain-liver-fats organ network during short-term fasting. Molecular Metabolism, 2020, 40, 101038.	6.5	7
33	Automatic identification of relevant genes from low-dimensional embeddings of single-cell RNA-seq data. Bioinformatics, 2020, 36, 4291-4295.	4.1	7
34	Interspecific variation of olfactory preferences in flies, mice, and humans. Chemical Senses, 2019, 44, 7-9.	2.0	5
35	Passive DNA shuttling. Europhysics Letters, 2010, 92, 20002.	2.0	3
36	DNA Loci Cross-Talk through Thermodynamics. Journal of Biomedicine and Biotechnology, 2009, 2009, 1-8.	3.0	2

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37	The role of cell geometry and cell-cell communication in gradient sensing. PLoS Computational Biology, 2022, 18, e1009552.	3.2	2
38	STATISTICAL MECHANICS MODELS FOR X-CHROMOSOME INACTIVATION. International Journal of Modeling, Simulation, and Scientific Computing, 2010, 13, 367-376.	1.4	0
39	MitoHEAR: an R package for the estimation and downstream statistical analysis of the mitochondrial DNA heteroplasmy calculated from single-cell datasets. Journal of Open Source Software, 2022, 7, 4265.	4.6	0