

Davide Cacchiarelli

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.

46 papers	7,232 citations	24 h-index	49 g-index
49 ext. papers	9,567 ext. citations	15.9 avg, IF	5.43 L-index

#	Paper	IF	Citations
46	The dynamics and regulators of cell fate decisions are revealed by pseudotemporal ordering of single cells. <i>Nature Biotechnology</i> , 2014 , 32, 381-386	44.5	2466
45	A long noncoding RNA controls muscle differentiation by functioning as a competing endogenous RNA. <i>Cell</i> , 2011 , 147, 358-69	56.2	1993
44	Perturbation of m6A writers reveals two distinct classes of mRNA methylation at internal and 5Y sites. <i>Cell Reports</i> , 2014 , 8, 284-96	10.6	700
43	miRNAs as serum biomarkers for Duchenne muscular dystrophy. <i>EMBO Molecular Medicine</i> , 2011 , 3, 258-65		201
42	MicroRNAs involved in molecular circuitries relevant for the Duchenne muscular dystrophy pathogenesis are controlled by the dystrophin/nNOS pathway. <i>Cell Metabolism</i> , 2010 , 12, 341-351	24.6	195
41	LIN28 Regulates Stem Cell Metabolism and Conversion to Primed Pluripotency. <i>Cell Stem Cell</i> , 2016 , 19, 66-80	18	192
40	Extracellular matrix hydrogel derived from decellularized tissues enables endodermal organoid culture. <i>Nature Communications</i> , 2019 , 10, 5658	17.4	155
39	Integrative Analyses of Human Reprogramming Reveal Dynamic Nature of Induced Pluripotency. <i>Cell</i> , 2015 , 162, 412-424	56.2	148
38	Dissecting neural differentiation regulatory networks through epigenetic footprinting. <i>Nature</i> , 2015 , 518, 355-359	50.4	140
37	miR-31 modulates dystrophin expression: new implications for Duchenne muscular dystrophy therapy. <i>EMBO Reports</i> , 2011 , 12, 136-41	6.5	113
36	Combining NGN2 Programming with Developmental Patterning Generates Human Excitatory Neurons with NMDAR-Mediated Synaptic Transmission. <i>Cell Reports</i> , 2018 , 23, 2509-2523	10.6	90
35	Epigenetic restriction of extraembryonic lineages mirrors the somatic transition to cancer. <i>Nature</i> , 2017 , 549, 543-547	50.4	86
34	Genome-wide tracking of dCas9-methyltransferase footprints. <i>Nature Communications</i> , 2018 , 9, 597	17.4	85
33	Genetic determinants and epigenetic effects of pioneer-factor occupancy. <i>Nature Genetics</i> , 2018 , 50, 250-258	36.3	85
32	Coupled RNA processing and transcription of intergenic primary microRNAs. <i>Molecular and Cellular Biology</i> , 2009 , 29, 5632-8	4.8	84
31	Phenotypic Characterization of a Comprehensive Set of MAPK1/ERK2 Missense Mutants. <i>Cell Reports</i> , 2016 , 17, 1171-1183	10.6	78
30	Triple Vectors Expand AAV Transfer Capacity in the Retina. <i>Molecular Therapy</i> , 2018 , 26, 524-541	11.7	68

29	Cross-Regulation between TDP-43 and Paraspeckles Promotes Pluripotency-Differentiation Transition. <i>Molecular Cell</i> , 2019 , 74, 951-965.e13	17.6	45
28	Aligning Single-Cell Developmental and Reprogramming Trajectories Identifies Molecular Determinants of Myogenic Reprogramming Outcome. <i>Cell Systems</i> , 2018 , 7, 258-268.e3	10.6	40
27	Direct generation of human naive induced pluripotent stem cells from somatic cells in microfluidics. <i>Nature Cell Biology</i> , 2019 , 21, 275-286	23.4	38
26	A Long Noncoding RNA Controls Muscle Differentiation by Functioning as a Competing Endogenous RNA. <i>Cell</i> , 2011 , 147, 947	56.2	37
25	Biogenesis and function of non-coding RNAs in muscle differentiation and in Duchenne muscular dystrophy. <i>Biochemical Society Transactions</i> , 2013 , 41, 844-9	5.1	32
24	Transcriptional and Chromatin Dynamics of Muscle Regeneration after Severe Trauma. <i>Stem Cell Reports</i> , 2016 , 7, 983-997	8	26
23	A CLK3-HMGA2 Alternative Splicing Axis Impacts Human Hematopoietic Stem Cell Molecular Identity throughout Development. <i>Cell Stem Cell</i> , 2018 , 22, 575-588.e7	18	24
22	YAP contributes to DNA methylation remodeling upon mouse embryonic stem cell differentiation. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100138	5.4	11
21	Brief report: importance of SOX8 for in vitro chondrogenic differentiation of human mesenchymal stromal cells. <i>Stem Cells</i> , 2014 , 32, 1629-35	5.8	10
20	SARS-CoV-2 infection and replication in human fetal and pediatric gastric organoids		10
19	Duplication of the dystroglycan gene in most branches of teleost fish. <i>BMC Molecular Biology</i> , 2007 , 8, 34	4.5	8
18	SARS-CoV-2 infection and replication in human gastric organoids. <i>Nature Communications</i> , 2021 , 12, 6610	7.4	8
17	The Microfluidic Environment Reveals a Hidden Role of Self-Organizing Extracellular Matrix in Hepatic Commitment and Organoid Formation of hiPSCs. <i>Cell Reports</i> , 2020 , 33, 108453	10.6	8
16	Single-Cell RNA Sequencing Analysis: A Step-by-Step Overview. <i>Methods in Molecular Biology</i> , 2021 , 2284, 343-365	1.4	8
15	MicroRNAs as prime players in a combinatorial view of evolution. <i>RNA Biology</i> , 2008 , 5, 120-122	4.8	7
14	COVID-19 and vertical transmission: assessing the expression of ACE2/TMPRSS2 in the human fetus and placenta to assess the risk of SARS-CoV-2 infection. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2021 ,	3.7	6
13	A cell-of-origin epigenetic tracer reveals clinically distinct subtypes of high-grade serous ovarian cancer. <i>Genome Medicine</i> , 2020 , 12, 94	14.4	6
12	Computational Stem Cell Biology: Open Questions and Guiding Principles. <i>Cell Stem Cell</i> , 2021 , 28, 20-32	18	6

11	Integrated Genomics Identifies miR-181/TFAM Pathway as a Critical Driver of Drug Resistance in Melanoma. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
10	Aligning single-cell developmental and reprogramming trajectories identifies molecular determinants of reprogramming outcome		4
9	Synchronization between peripheral circadian clock and feeding-fasting cycles in microfluidic device sustains oscillatory pattern of transcriptome. <i>Nature Communications</i> , 2021 , 12, 6185	17.4	3
8	Automatic identification of small molecules that promote cell conversion and reprogramming. <i>Stem Cell Reports</i> , 2021 , 16, 1381-1390	8	3
7	Transcriptome Analysis Reveals Altered Expression of Genes Involved in Hypoxia, Inflammation and Immune Regulation in Pcd10-Depleted Mouse Endothelial Cells. <i>Genes</i> , 2022 , 13, 961	4.2	2
6	Cross-Regulation Between TDP-43 and Paraspeckles Promotes Pluripotency-Differentiation Transition. <i>SSRN Electronic Journal</i> ,	1	1
5	Automatic identification of small molecules that promote cell conversion and reprogramming		1
4	MET Exon 14 Skipping: A Case Study for the Detection of Genetic Variants in Cancer Driver Genes by Deep Learning. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
3	BrewerIX enables allelic expression analysis of imprinted and X-linked genes from bulk and single-cell transcriptomes.. <i>Communications Biology</i> , 2022 , 5, 146	6.7	1
2	Therapeutic homology-independent targeted integration in retina and liver.. <i>Nature Communications</i> , 2022 , 13, 1963	17.4	0
1	The developmental origins of high grade serous ovarian cancer.. <i>Journal of Clinical Oncology</i> , 2019 , 37, e17063-e17063	2.2	