

Gonalo Castelo-Branco

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.

57
papers

6,392
citations

28
h-index

70
g-index

70
ext. papers

9,156
ext. citations

15.6
avg, IF

5.59
L-index

#	Paper	IF	Citations
57	Brain structure. Cell types in the mouse cortex and hippocampus revealed by single-cell RNA-seq. <i>Science</i> , 2015 , 347, 1138-42	33.3	1883
56	RNA velocity of single cells. <i>Nature</i> , 2018 , 560, 494-498	50.4	1132
55	Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. <i>Science</i> , 2016 , 352, 1326-1329	33.3	497
54	Differential regulation of midbrain dopaminergic neuron development by Wnt-1, Wnt-3a, and Wnt-5a. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12747-52	11.5	302
53	Citrullination regulates pluripotency and histone H1 binding to chromatin. <i>Nature</i> , 2014 , 507, 104-8	50.4	264
52	Altered human oligodendrocyte heterogeneity in multiple sclerosis. <i>Nature</i> , 2019 , 566, 543-547	50.4	261
51	Histone H2AX-dependent GABA(A) receptor regulation of stem cell proliferation. <i>Nature</i> , 2008 , 451, 460-4	50.4	218
50	Disease-specific oligodendrocyte lineage cells arise in multiple sclerosis. <i>Nature Medicine</i> , 2018 , 24, 1837-1844	50.4	165
49	Nanog overcomes reprogramming barriers and induces pluripotency in minimal conditions. <i>Current Biology</i> , 2011 , 21, 65-71	6.3	142
48	Wnt5a-treated midbrain neural stem cells improve dopamine cell replacement therapy in parkinsonian mice. <i>Journal of Clinical Investigation</i> , 2008 , 118, 149-60	15.9	128
47	An Atlas of Vagal Sensory Neurons and Their Molecular Specialization. <i>Cell Reports</i> , 2019 , 27, 2508-2523.e46	14.6	122
46	GSK-3beta inhibition/beta-catenin stabilization in ventral midbrain precursors increases differentiation into dopamine neurons. <i>Journal of Cell Science</i> , 2004 , 117, 5731-7	5.3	118
45	Transcriptional Convergence of Oligodendrocyte Lineage Progenitors during Development. <i>Developmental Cell</i> , 2018 , 46, 504-517.e7	10.2	104
44	Purified Wnt-5a increases differentiation of midbrain dopaminergic cells and dishevelled phosphorylation. <i>Journal of Neurochemistry</i> , 2005 , 92, 1550-3	6	103
43	Ventral midbrain glia express region-specific transcription factors and regulate dopaminergic neurogenesis through Wnt-5a secretion. <i>Molecular and Cellular Neurosciences</i> , 2006 , 31, 251-62	4.8	85
42	Functionally distinct subgroups of oligodendrocyte precursor cells integrate neural activity and execute myelin formation. <i>Nature Neuroscience</i> , 2020 , 23, 363-374	25.5	58
41	Function of Wnts in dopaminergic neuron development. <i>Neurodegenerative Diseases</i> , 2006 , 3, 5-11	2.3	57

40	Wnt2 regulates progenitor proliferation in the developing ventral midbrain. <i>Journal of Biological Chemistry</i> , 2010 , 285, 7246-53	5.4	54
39	Persephin-overexpressing neural stem cells regulate the function of nigral dopaminergic neurons and prevent their degeneration in a model of Parkinson's disease. <i>Molecular and Cellular Neurosciences</i> , 2002 , 21, 205-22	4.8	51
38	RADICL-seq identifies general and cell type-specific principles of genome-wide RNA-chromatin interactions. <i>Nature Communications</i> , 2020 , 11, 1018	17.4	48
37	Single-cell CUT&Tag profiles histone modifications and transcription factors in complex tissues. <i>Nature Biotechnology</i> , 2021 , 39, 825-835	44.5	48
36	Neural stem cell differentiation is dictated by distinct actions of nuclear receptor corepressors and histone deacetylases. <i>Stem Cell Reports</i> , 2014 , 3, 502-15	8	45
35	Dynamic temporal and cell type-specific expression of Wnt signaling components in the developing midbrain. <i>Experimental Cell Research</i> , 2006 , 312, 1626-36	4.2	43
34	In cultured oligodendrocytes the A/B-type hnRNP CBF-A accompanies MBP mRNA bound to mRNA trafficking sequences. <i>Molecular Biology of the Cell</i> , 2008 , 19, 3008-19	3.5	41
33	The non-coding snRNA 7SK controls transcriptional termination, poising, and bidirectionality in embryonic stem cells. <i>Genome Biology</i> , 2013 , 14, R98	18.3	33
32	PAD2-Mediated Citrullination Contributes to Efficient Oligodendrocyte Differentiation and Myelination. <i>Cell Reports</i> , 2019 , 27, 1090-1102.e10	10.6	32
31	Delayed dopaminergic neuron differentiation in Lrp6 mutant mice. <i>Developmental Dynamics</i> , 2010 , 239, 211-21	2.9	29
30	Single-cell transcriptomic analysis of oligodendrocyte lineage cells. <i>Current Opinion in Neurobiology</i> , 2017 , 47, 168-175	7.6	28
29	Acute treatment with valproic acid and l-thyroxine ameliorates clinical signs of experimental autoimmune encephalomyelitis and prevents brain pathology in DA rats. <i>Neurobiology of Disease</i> , 2014 , 71, 220-33	7.5	27
28	Positional differences of axon growth rates between sensory neurons encoded by Runx3. <i>EMBO Journal</i> , 2012 , 31, 3718-29	13	23
27	Oligodendrocyte Intrinsic miR-27a Controls Myelination and Remyelination. <i>Cell Reports</i> , 2019 , 29, 904-910.e9	10.6	22
26	Inhibition of JNK increases survival of transplanted dopamine neurons in Parkinsonian rats. <i>Cell Death and Differentiation</i> , 2007 , 14, 381-3	12.7	18
25	Distinct oligodendrocyte populations have spatial preference and different responses to spinal cord injury. <i>Nature Communications</i> , 2020 , 11, 5860	17.4	16
24	BMPs, FGF8 and Wnts regulate the differentiation of locus coeruleus noradrenergic neuronal precursors. <i>Journal of Neurochemistry</i> , 2006 , 99, 343-52	6	13
23	Gsta4 controls apoptosis of differentiating adult oligodendrocytes during homeostasis and remyelination via the mitochondria-associated Fas-Casp8-Bid-axis. <i>Nature Communications</i> , 2020 , 11, 4071	17.4	12

22	Spatial-CUT&Tag: Spatially resolved chromatin modification profiling at the cellular level.. <i>Science</i> , 2022 , 375, 681-686	33.3	11
21	Cell-type specialization is encoded by specific chromatin topologies. <i>Nature</i> , 2021 , 599, 684-691	50.4	10
20	Birth, coming of age and death: The intriguing life of long noncoding RNAs. <i>Seminars in Cell and Developmental Biology</i> , 2018 , 79, 143-152	7.5	10
19	Single-cell profiling of histone modifications in the mouse brain		9
18	Epigenetic regulation of oligodendrocyte differentiation: From development to demyelinating disorders. <i>Glia</i> , 2020 , 68, 1619-1630	9	7
17	Subcellular receptor redistribution and enhanced microspike formation by a Ret receptor preferentially recruiting Dok. <i>Neuroscience Letters</i> , 2008 , 435, 11-6	3.3	6
16	Interaction of Sox2 with RNA binding proteins in mouse embryonic stem cells. <i>Experimental Cell Research</i> , 2019 , 381, 129-138	4.2	4
15	Erg channel is critical in controlling cell volume during cell cycle in embryonic stem cells. <i>PLoS ONE</i> , 2013 , 8, e72409	3.7	4
14	Single-cell transcriptomic profiling of progenitors of the oligodendrocyte lineage reveals transcriptional convergence during development		4
13	Crossing boundaries: Interplay between the immune system and oligodendrocyte lineage cells. <i>Seminars in Cell and Developmental Biology</i> , 2021 , 116, 45-52	7.5	4
12	Single-Cell RNA Sequencing of Oligodendrocyte Lineage Cells from the Mouse Central Nervous System. <i>Methods in Molecular Biology</i> , 2019 , 1936, 1-21	1.4	3
11	Cell-type specific cis-eQTLs in eight brain cell-types identifies novel risk genes for human brain disorders		3
10	Cell-type specialization in the brain is encoded by specific long-range chromatin topologies		3
9	Spatial-ATAC-seq: spatially resolved chromatin accessibility profiling of tissues at genome scale and cellular level		3
8	Distinct oligodendrocyte populations have spatial preference and injury-specific responses		2
7	Functionally Distinct Subgroups of Oligodendrocyte Precursor Cells Integrate Neural Activity and Execute Myelin Formation		2
6	Developmental landscape of human forebrain at a single-cell level unveils early waves of oligodendrogenesis		2
5	Epigenomic priming of immune genes implicates oligodendroglia in multiple sclerosis susceptibility.. <i>Neuron</i> , 2022 ,	13.9	1

- 4 Gsta4 controls apoptosis of differentiating adult oligodendrocytes during homeostasis and remyelination via the mitochondria-associated Fas/Casp8/Bid-axis 1
- 3 PADI2-mediated citrullination is required for efficient oligodendrocyte differentiation and myelination 1
- 2 Spatial cell type mapping of the oligodendrocyte lineage in the mouse juvenile and adult CNS with in situ sequencing 1
- 1 Ancestry Tracing: Uncovering a Gliomagenesis Master Regulator. *Cell Stem Cell*, 2019, 24, 677-679 18