

Jeffrey D Macklis

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.

72
papers

8,572
citations

38
h-index

92
g-index

127
ext. papers

9,984
ext. citations

12.8
avg, IF

6.11
L-index

#	Paper	IF	Citations
72	Neuronal subtype specification in the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2007 , 8, 427-37	13.5	1153
71	Induction of neurogenesis in the neocortex of adult mice. <i>Nature</i> , 2000 , 405, 951-5	50.4	1030
70	Neuronal subtype-specific genes that control corticospinal motor neuron development in vivo. <i>Neuron</i> , 2005 , 45, 207-21	13.9	822
69	Molecular logic of neocortical projection neuron specification, development and diversity. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 755-69	13.5	502
68	Fezl is required for the birth and specification of corticospinal motor neurons. <i>Neuron</i> , 2005 , 47, 817-31	13.9	373
67	MECP2 is progressively expressed in post-migratory neurons and is involved in neuronal maturation rather than cell fate decisions. <i>Molecular and Cellular Neurosciences</i> , 2004 , 27, 306-21	4.8	341
66	IGF-I specifically enhances axon outgrowth of corticospinal motor neurons. <i>Nature Neuroscience</i> , 2006 , 9, 1371-81	25.5	257
65	Development, specification, and diversity of callosal projection neurons. <i>Trends in Neurosciences</i> , 2011 , 34, 41-50	13.3	245
64	SOX5 controls the sequential generation of distinct corticofugal neuron subtypes. <i>Neuron</i> , 2008 , 57, 232-47	13.9	229
63	Ctip2 controls the differentiation of medium spiny neurons and the establishment of the cellular architecture of the striatum. <i>Journal of Neuroscience</i> , 2008 , 28, 622-32	6.6	213
62	Astroglial heterogeneity closely reflects the neuronal-defined anatomy of the adult murine CNS. <i>Neuron Glia Biology</i> , 2006 , 2, 175-86		202
61	Neurogenesis of corticospinal motor neurons extending spinal projections in adult mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16357-62	11.5	201
60	Adult-born and preexisting olfactory granule neurons undergo distinct experience-dependent modifications of their olfactory responses in vivo. <i>Journal of Neuroscience</i> , 2005 , 25, 10729-39	6.6	181
59	Modeling ALS with motor neurons derived from human induced pluripotent stem cells. <i>Nature Neuroscience</i> , 2016 , 19, 542-53	25.5	174
58	CRISPR-Cas encoding of a digital movie into the genomes of a population of living bacteria. <i>Nature</i> , 2017 , 547, 345-349	50.4	169
57	SOX6 controls dorsal progenitor identity and interneuron diversity during neocortical development. <i>Nature Neuroscience</i> , 2009 , 12, 1238-47	25.5	153
56	Novel subtype-specific genes identify distinct subpopulations of callosal projection neurons. <i>Journal of Neuroscience</i> , 2009 , 29, 12343-54	6.6	150

55	Bhlhb5 regulates the postmitotic acquisition of area identities in layers II-V of the developing neocortex. <i>Neuron</i> , 2008 , 60, 258-72	13.9	133
54	Molecular recordings by directed CRISPR spacer acquisition. <i>Science</i> , 2016 , 353, aaf1175	33.3	129
53	Corticospinal motor neurons and related subcerebral projection neurons undergo early and specific neurodegeneration in hSOD1 ^{G^{93A}} transgenic ALS mice. <i>Journal of Neuroscience</i> , 2011 , 31, 4166-77	6.6	125
52	Deciphering amyotrophic lateral sclerosis: what phenotype, neuropathology and genetics are telling us about pathogenesis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013 , 14 Suppl 1, 5-18	3.6	120
51	Everything that glitters isn't gold: a critical review of postnatal neural precursor analyses. <i>Cell Stem Cell</i> , 2007 , 1, 612-27	18	108
50	Mature astrocytes transform into transitional radial glia within adult mouse neocortex that supports directed migration of transplanted immature neurons. <i>Experimental Neurology</i> , 1999 , 157, 43-57	5.7	101
49	Transplanted neuroblasts differentiate appropriately into projection neurons with correct neurotransmitter and receptor phenotype in neocortex undergoing targeted projection neuron degeneration. <i>Journal of Neuroscience</i> , 2000 , 20, 7404-16	6.6	87
48	Late-stage immature neocortical neurons reconstruct interhemispheric connections and form synaptic contacts with increased efficiency in adult mouse cortex undergoing targeted neurodegeneration. <i>Journal of Neuroscience</i> , 2002 , 22, 4045-56	6.6	86
47	Area-specific temporal control of corticospinal motor neuron differentiation by COUP-TFI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3576-81	11.5	82
46	Transplanted Neocortical Neurons Migrate to Repopulate Selectively Neuron-Deficient Regions After Photolytic Pyramidal Neuron Degeneration. <i>Journal of Neural Transplantation & Plasticity</i> , 1992 , 3, 176-177		78
45	Large-scale maintenance of dual projections by callosal and frontal cortical projection neurons in adult mice. <i>Journal of Comparative Neurology</i> , 2005 , 482, 17-32	3.4	77
44	MeCP2 functions largely cell-autonomously, but also non-cell-autonomously, in neuronal maturation and dendritic arborization of cortical pyramidal neurons. <i>Experimental Neurology</i> , 2010 , 222, 51-8	5.7	71
43	Embryonic neurons transplanted to regions of targeted photolytic cell death in adult mouse somatosensory cortex re-form specific callosal projections. <i>Experimental Neurology</i> , 1996 , 139, 131-42	5.7	67
42	Subcellular transcriptomes and proteomes of developing axon projections in the cerebral cortex. <i>Nature</i> , 2019 , 565, 356-360	50.4	63
41	Specific neurotrophic factors support the survival of cortical projection neurons at distinct stages of development. <i>Journal of Neuroscience</i> , 2001 , 21, 8863-72	6.6	59
40	Anatomic and molecular development of corticostriatal projection neurons in mice. <i>Cerebral Cortex</i> , 2014 , 24, 293-303	5.1	58
39	Corticospinal Motor Neurons Are Susceptible to Increased ER Stress and Display Profound Degeneration in the Absence of UCHL1 Function. <i>Cerebral Cortex</i> , 2015 , 25, 4259-72	5.1	52
38	Lmo4 and Clim1 progressively delineate cortical projection neuron subtypes during development. <i>Cerebral Cortex</i> , 2009 , 19 Suppl 1, i62-9	5.1	48

37	Transplanted hypothalamic neurons restore leptin signaling and ameliorate obesity in db/db mice. <i>Science</i> , 2011 , 334, 1133-7	33.3	48
36	SnapShot: cortical development. <i>Cell</i> , 2012 , 151, 918-918.e1	56.2	46
35	Ctip1 Regulates the Balance between Specification of Distinct Projection Neuron Subtypes in Deep Cortical Layers. <i>Cell Reports</i> , 2016 , 15, 999-1012	10.6	40
34	LHX2 Interacts with the NuRD Complex and Regulates Cortical Neuron Subtype Determinants Fezf2 and Sox11. <i>Journal of Neuroscience</i> , 2017 , 37, 194-203	6.6	38
33	Reduction of aberrant NF- κ B signalling ameliorates Rett syndrome phenotypes in Mecp2-null mice. <i>Nature Communications</i> , 2016 , 7, 10520	17.4	38
32	Lmo4 establishes rostral motor cortex projection neuron subtype diversity. <i>Journal of Neuroscience</i> , 2013 , 33, 6321-32	6.6	37
31	Ctip1 Controls Acquisition of Sensory Area Identity and Establishment of Sensory Input Fields in the Developing Neocortex. <i>Neuron</i> , 2016 , 90, 261-77	13.9	36
30	Corticothalamic Projection Neuron Development beyond Subtype Specification: Fog2 and Intersectional Controls Regulate Intraclass Neuronal Diversity. <i>Neuron</i> , 2016 , 91, 90-106	13.9	30
29	Single-Cell Analysis of SMN Reveals Its Broader Role in Neuromuscular Disease. <i>Cell Reports</i> , 2017 , 18, 1484-1498	10.6	29
28	Induction of Adult Neurogenesis. <i>Annals of the New York Academy of Sciences</i> , 2006 , 991, 229-236	6.5	28
27	Strict in vivo specificity of the erythroid enhancer. <i>Blood</i> , 2016 , 128, 2338-2342	2.2	26
26	Identification of newborn cells by BrdU labeling and immunocytochemistry in vivo. <i>Methods in Molecular Biology</i> , 2008 , 438, 335-43	1.4	23
25	Cited2 Regulates Neocortical Layer II/III Generation and Somatosensory Callosal Projection Neuron Development and Connectivity. <i>Journal of Neuroscience</i> , 2016 , 36, 6403-19	6.6	20
24	Input-dependent regulation of excitability controls dendritic maturation in somatosensory thalamocortical neurons. <i>Nature Communications</i> , 2017 , 8, 2015	17.4	20
23	Stage-specific and opposing roles of BDNF, NT-3 and bFGF in differentiation of purified callosal projection neurons toward cellular repair of complex circuitry. <i>European Journal of Neuroscience</i> , 2004 , 19, 2421-34	3.5	19
22	Subtype-Specific Genes that Characterize Subpopulations of Callosal Projection Neurons in Mouse Identify Molecularly Homologous Populations in Macaque Cortex. <i>Cerebral Cortex</i> , 2017 , 27, 1817-1830	5.1	16
21	Developmentally primed cortical neurons maintain fidelity of differentiation and establish appropriate functional connectivity after transplantation. <i>Nature Neuroscience</i> , 2018 , 21, 517-529	25.5	15
20	Human adult olfactory bulb neurogenesis? Novelty is the best policy. <i>Neuron</i> , 2012 , 74, 595-6	13.9	15

19	Molecular development of corticospinal motor neuron circuitry. <i>Experimental Neurology</i> , 2007 , 288, 3-15; discussion 15-20, 96-8	5.7	15
18	Stratified gene expression analysis identifies major amyotrophic lateral sclerosis genes. <i>Neurobiology of Aging</i> , 2015 , 36, 2006.e1-9	5.6	14
17	Established monolayer differentiation of mouse embryonic stem cells generates heterogeneous neocortical-like neurons stalled at a stage equivalent to midcorticogenesis. <i>Journal of Comparative Neurology</i> , 2014 , 522, 2691-706	3.4	11
16	Caveolin1 Identifies a Specific Subpopulation of Cerebral Cortex Callosal Projection Neurons (CPN) Including Dual Projecting Cortical Callosal/Frontal Projection Neurons (CPN/FPN). <i>ENeuro</i> , 2018 , 5,	3.9	11
15	Molecular Development of Corticospinal Motor Neuron Circuitry. <i>Novartis Foundation Symposium</i> , 2008 , 3-20		10
14	An evolutionarily acquired microRNA shapes development of mammalian cortical projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29113-29122 ^{11.5}		7
13	Vitamin D Supplementation Rescues Aberrant NF- κ B Pathway Activation and Partially Ameliorates Rett Syndrome Phenotypes in Mutant Mice. <i>ENeuro</i> , 2020 , 7,	3.9	5
12	Identification of radial glia-like cells in the adult mouse olfactory bulb. <i>Experimental Neurology</i> , 2012 , 236, 283-97	5.7	4
11	Proposed association between the hexanucleotide repeat of C9orf72 and opposability index of the thumb. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2017 , 18, 175-181	3.6	3
10	Motor cortex connections 2020 , 167-199		2
9	Established monolayer differentiation of mouse embryonic stem cells generates heterogeneous neocortical-like neurons stalled at a stage equivalent to midcorticogenesis. <i>Journal of Comparative Neurology</i> , 2014 , 522, Spc1-Spc1	3.4	1
8	Corticospinal neuron subpopulation-specific developmental genes prospectively indicate mature segmentally specific axon projection targeting. <i>Cell Reports</i> , 2021 , 37, 109843	10.6	1
7	Crim1 and Kelch-like 14 exert complementary dual-directional developmental control over segmentally specific corticospinal axon projection targeting. <i>Cell Reports</i> , 2021 , 37, 109842	10.6	1
6	Specification of cortical projection neurons 2020 , 427-459		0
5	The repair of complex neuronal circuitry by transplanted and endogenous precursors. <i>Neurotherapeutics</i> , 2004 , 1, 452-471	6.4	0
4	Synthetic modified Fezf2 mRNA (modRNA) with concurrent small molecule SIRT1 inhibition enhances refinement of cortical subcerebral/corticospinal neuron identity from mouse embryonic stem cells. <i>PLoS ONE</i> , 2021 , 16, e0254113	3.7	0
3	Unfolding the Folding Problem of the Cerebral Cortex: MovinTand GroovinT <i>Developmental Cell</i> , 2017 , 41, 332-334	10.2	
2	Adult neurogenesis and neural precursors, progenitors, and stem cells in the adult central nervous system 283-300		

1 Adult neurogenesis and neural precursors, progenitors, and stem cells in the adult CNS303-325