

Jeffrey D Macklis

List of Publications by Year in descending order

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73
papers

10,701
citations

71102

41
h-index

91884

69
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127
all docs

127
docs citations

127
times ranked

11720
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal subtype specification in the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2007, 8, 427-437.	10.2	1,444
2	Induction of neurogenesis in the neocortex of adult mice. <i>Nature</i> , 2000, 405, 951-955.	27.8	1,138
3	Neuronal Subtype-Specific Genes that Control Corticospinal Motor Neuron Development In Vivo. <i>Neuron</i> , 2005, 45, 207-221.	8.1	1,046
4	Molecular logic of neocortical projection neuron specification, development and diversity. <i>Nature Reviews Neuroscience</i> , 2013, 14, 755-769.	10.2	688
5	Fezl Is Required for the Birth and Specification of Corticospinal Motor Neurons. <i>Neuron</i> , 2005, 47, 817-831.	8.1	448
6	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, 306-321.	2.2	390
7	Development, specification, and diversity of callosal projection neurons. <i>Trends in Neurosciences</i> , 2011, 34, 41-50.	8.6	332
8	IGF-I specifically enhances axon outgrowth of corticospinal motor neurons. <i>Nature Neuroscience</i> , 2006, 9, 1371-1381.	14.8	299
9	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, 622-632.	3.6	280
10	SOX5 Controls the Sequential Generation of Distinct Corticofugal Neuron Subtypes. <i>Neuron</i> , 2008, 57, 232-247.	8.1	273
11	CRISPR-Cas encoding of a digital movie into the genomes of a population of living bacteria. <i>Nature</i> , 2017, 547, 345-349.	27.8	254
12	Modeling ALS with motor neurons derived from human induced pluripotent stem cells. <i>Nature Neuroscience</i> , 2016, 19, 542-553.	14.8	252
13	Astroglial heterogeneity closely reflects the neuronal-defined anatomy of the adult murine CNS. <i>Neuron Glia Biology</i> , 2006, 2, 175-186.	1.6	249
14	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, 16357-16362.	7.1	220
15	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, 10729-10739.	3.6	192
16	Novel Subtype-Specific Genes Identify Distinct Subpopulations of Callosal Projection Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 12343-12354.	3.6	187
17	SOX6 controls dorsal progenitor identity and interneuron diversity during neocortical development. <i>Nature Neuroscience</i> , 2009, 12, 1238-1247.	14.8	179
18	Molecular recordings by directed CRISPR spacer acquisition. <i>Science</i> , 2016, 353, aaf1175.	12.6	179

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19	Bhlhb5 Regulates the Postmitotic Acquisition of Area Identities in Layers II-V of the Developing Neocortex. <i>Neuron</i> , 2008, 60, 258-272.	8.1	165
20	Corticospinal Motor Neurons and Related Subcerebral Projection Neurons Undergo Early and Specific Neurodegeneration in hSOD1 ^{G93A} Transgenic ALS Mice. <i>Journal of Neuroscience</i> , 2011, 31, 4166-4177.	3.6	159
21	Deciphering amyotrophic lateral sclerosis: What phenotype, neuropathology and genetics are telling us about pathogenesis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013, 14, 5-18.	1.7	142
22	Everything that Glitters Isn't Gold: A Critical Review of Postnatal Neural Precursor Analyses. <i>Cell Stem Cell</i> , 2007, 1, 612-627.	11.1	129
23	Subcellular transcriptomes and proteomes of developing axon projections in the cerebral cortex. <i>Nature</i> , 2019, 565, 356-360.	27.8	125
24	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.	4.1	115
25	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, 3576-3581.	7.1	111
26	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.	1.6	96
27	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, 4045-4056.	3.6	94
28	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, 7404-7416.	3.6	92
29	Anatomic and Molecular Development of Corticostriatal Projection Neurons in Mice. <i>Cerebral Cortex</i> , 2014, 24, 293-303.	2.9	80
30	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, 131-142.	4.1	79
31	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, 51-58.	4.1	78
32	Specific Neurotrophic Factors Support the Survival of Cortical Projection Neurons at Distinct Stages of Development. <i>Journal of Neuroscience</i> , 2001, 21, 8863-8872.	3.6	76
33	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, 4259-4272.	2.9	69
34	Ctip1 Regulates the Balance between Specification of Distinct Projection Neuron Subtypes in Deep Cortical Layers. <i>Cell Reports</i> , 2016, 15, 999-1012.	6.4	66
35	Ctip1 Controls Acquisition of Sensory Area Identity and Establishment of Sensory Input Fields in the Developing Neocortex. <i>Neuron</i> , 2016, 90, 261-277.	8.1	64
36	Lmo4 and Clim1 Progressively Delineate Cortical Projection Neuron Subtypes during Development. <i>Cerebral Cortex</i> , 2009, 19, i62-i69.	2.9	62

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37	Transplanted Hypothalamic Neurons Restore Leptin Signaling and Ameliorate Obesity in db/db Mice. <i>Science</i> , 2011, 334, 1133-1137.	12.6	60
38	LHX2 Interacts with the NuRD Complex and Regulates Cortical Neuron Subtype Determinants <i>Fezf2</i> and <i>Sox11</i> . <i>Journal of Neuroscience</i> , 2017, 37, 194-203.	3.6	59
39	Reduction of aberrant NF- κ B signalling ameliorates Rett syndrome phenotypes in <i>Mecp2</i> -null mice. <i>Nature Communications</i> , 2016, 7, 10520.	12.8	58
40	SnapShot: Cortical Development. <i>Cell</i> , 2012, 151, 918-918.e1.	28.9	57
41	<i>Lmo4</i> Establishes Rostral Motor Cortex Projection Neuron Subtype Diversity. <i>Journal of Neuroscience</i> , 2013, 33, 6321-6332.	3.6	56
42	Corticothalamic Projection Neuron Development beyond Subtype Specification: <i>Fog2</i> and Intersectional Controls Regulate Intraclass Neuronal Diversity. <i>Neuron</i> , 2016, 91, 90-106.	8.1	49
43	Single-Cell Analysis of SMN Reveals Its Broader Role in Neuromuscular Disease. <i>Cell Reports</i> , 2017, 18, 1484-1498.	6.4	38
44	Strict in vivo specificity of the <i>Bcl11a</i> erythroid enhancer. <i>Blood</i> , 2016, 128, 2338-2342.	1.4	33
45	<i>Cited2</i> Regulates Neocortical Layer II/III Generation and Somatosensory Callosal Projection Neuron Development and Connectivity. <i>Journal of Neuroscience</i> , 2016, 36, 6403-6419.	3.6	33
46	Induction of Adult Neurogenesis. <i>Annals of the New York Academy of Sciences</i> , 2003, 991, 229-236.	3.8	30
47	Identification of Newborn Cells by BrdU Labeling and Immunocytochemistry In Vivo. <i>Methods in Molecular Biology</i> , 2008, 438, 335-343.	0.9	30
48	Input-dependent regulation of excitability controls dendritic maturation in somatosensory thalamocortical neurons. <i>Nature Communications</i> , 2017, 8, 2015.	12.8	30
49	New memories from new neurons. <i>Nature</i> , 2001, 410, 314-317.	27.8	28
50	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, 2421-2434.	2.6	25
51	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.	2.9	23
52	Stratified gene expression analysis identifies major amyotrophic lateral sclerosis genes. <i>Neurobiology of Aging</i> , 2015, 36, 2006.e1-2006.e9.	3.1	22
53	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.	7.1	21
54	Developmentally primed cortical neurons maintain fidelity of differentiation and establish appropriate functional connectivity after transplantation. <i>Nature Neuroscience</i> , 2018, 21, 517-529.	14.8	20

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55	Molecular development and repair of corticospinal motor neuron circuitry. <i>Experimental Neurology</i> , 2006, 198, 581-582.	4.1	19
56	Corticospinal neuron subpopulation-specific developmental genes prospectively indicate mature segmentally specific axon projection targeting. <i>Cell Reports</i> , 2021, 37, 109843.	6.4	19
57	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.	6.4	18
58	Human Adult Olfactory Bulb Neurogenesis? Novelty Is the Best Policy. <i>Neuron</i> , 2012, 74, 595-596.	8.1	15
59	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, ENEURO.0234-17.2017.	1.9	15
60	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, 2691-2706.	1.6	13
61	Vitamin D Supplementation Rescues Aberrant NF- κ B Pathway Activation and Partially Ameliorates Rett Syndrome Phenotypes in Mecp2 Mutant Mice. <i>ENeuro</i> , 2020, 7, ENEURO.0167-20.2020.	1.9	12
62	Motor cortex connections. , 2020, , 167-199.		8
63	Neuronal subtype-specific growth cone and soma purification from mammalian CNS via fractionation and fluorescent sorting for subcellular analyses and spatial mapping of local transcriptomes and proteomes. <i>Nature Protocols</i> , 2022, 17, 222-251.	12.0	8
64	Proposed association between the hexanucleotide repeat of <i>C9orf72</i> and opposability index of the thumb. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2017, 18, 175-181.	1.7	6
65	Identification of radial glia-like cells in the adult mouse olfactory bulb. <i>Experimental Neurology</i> , 2012, 236, 283-297.	4.1	4
66	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.	2.5	3
67	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.	1.6	1
68	Specification of cortical projection neurons. , 2020, , 427-459.		1
69	The repair of complex neuronal circuitry by transplanted and endogenous precursors. <i>Neurotherapeutics</i> , 2004, 1, 452-471.	4.4	1
70	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.	0.7	0
71	Adult neurogenesis and neural precursors, progenitors, and stem cells in the adult CNS. , 0, , 303-325.		0
72	Adult neurogenesis and neural precursors, progenitors, and stem cells in the adult central nervous system. , 0, , 283-300.		0

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73	Unfolding the Folding Problem of the Cerebral Cortex: Movin [™] and Groovin [™] . <i>Developmental Cell</i> , 2017, 41, 332-334.	7.0	0