Jeffrey D Macklis

List of Publications by Year in Descending Order

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	Corticospinal neuron subpopulation-specific developmental genes prospectively indicate mature segmentally specific axon projection targeting. *Cell Reports*, **2021**, 37, 109843	10.6	1
71	Crim1 and Kelch-like 14 exert complementary dual-directional developmental control over segmentally specific corticospinal axon projection targeting. *Cell Reports*, **2021**, 37, 109842	10.6	1
70	Synthetic modified Fezf2 mRNA (modRNA) with concurrent small molecule SIRT1 inhibition enhances refinement of cortical subcerebral/corticospinal neuron identity from mouse embryonic stem cells. *PLoS ONE*, **2021**, 16, e0254113	3.7	0
69	Motor cortex connections **2020**, 167-199		2
68	Specification of cortical projection neurons **2020**, 427-459		0
67	Vitamin D Supplementation Rescues Aberrant NF-B Pathway Activation and Partially Ameliorates Rett Syndrome Phenotypes in Mutant Mice. *ENeuro*, **2020**, 7,	3.9	5
66	An evolutionarily acquired microRNA shapes development of mammalian cortical projections. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29113-29122	11.5	7
65	Subcellular transcriptomes and proteomes of developing axon projections in the cerebral cortex. *Nature*, **2019**, 565, 356-360	50.4	63
64	Developmentally primed cortical neurons maintain fidelity of differentiation and establish appropriate functional connectivity after transplantation. *Nature Neuroscience*, **2018**, 21, 517-529	25.5	15
63	Caveolin1 Identifies a Specific Subpopulation of Cerebral Cortex Callosal Projection Neurons (CPN) Including Dual Projecting Cortical Callosal/Frontal Projection Neurons (CPN/FPN). *ENeuro*, **2018**, 5,	3.9	11
62	Subtype-Specific Genes that Characterize Subpopulations of Callosal Projection Neurons in Mouse Identify Molecularly Homologous Populations in Macaque Cortex. *Cerebral Cortex*, **2017**, 27, 1817-1830	5.1	16
61	Single-Cell Analysis of SMN Reveals Its Broader Role in Neuromuscular Disease. *Cell Reports*, **2017**, 18, 1484-1498	10.6	29
60	LHX2 Interacts with the NuRD Complex and Regulates Cortical Neuron Subtype Determinants Fezf2 and Sox11. *Journal of Neuroscience*, **2017**, 37, 194-203	6.6	38
59	Unfolding the Folding Problem of the Cerebral Cortex: MovinTand GroovinT *Developmental Cell*, **2017**, 41, 332-334	10.2	
58	Proposed association between the hexanucleotide repeat of C9orf72 and opposability index of the thumb. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, **2017**, 18, 175-181	3.6	3
57	Input-dependent regulation of excitability controls dendritic maturation in somatosensory thalamocortical neurons. *Nature Communications*, **2017**, 8, 2015	17.4	20
56	CRISPR-Cas encoding of a digital movie into the genomes of a population of living bacteria. *Nature*, **2017**, 547, 345-349	50.4	169

55	Molecular recordings by directed CRISPR spacer acquisition. *Science*, **2016**, 353, aaf1175	33.3	129
54	Corticothalamic Projection Neuron Development beyond Subtype Specification: Fog2 and Intersectional Controls Regulate Intraclass Neuronal Diversity. *Neuron*, **2016**, 91, 90-106	13.9	30
53	Ctip1 Regulates the Balance between Specification of Distinct Projection Neuron Subtypes in Deep Cortical Layers. *Cell Reports*, **2016**, 15, 999-1012	10.6	40
52	Cited2 Regulates Neocortical Layer II/III Generation and Somatosensory Callosal Projection Neuron Development and Connectivity. *Journal of Neuroscience*, **2016**, 36, 6403-19	6.6	20
51	Reduction of aberrant NF-ΒB signalling ameliorates Rett syndrome phenotypes in Mecp2-null mice. *Nature Communications*, **2016**, 7, 10520	17.4	38
50	Strict in vivo specificity of the erythroid enhancer. *Blood*, **2016**, 128, 2338-2342	2.2	26
49	Modeling ALS with motor neurons derived from human induced pluripotent stem cells. *Nature Neuroscience*, **2016**, 19, 542-53	25.5	174
48	Ctip1 Controls Acquisition of Sensory Area Identity and Establishment of Sensory Input Fields in the Developing Neocortex. *Neuron*, **2016**, 90, 261-77	13.9	36
47	Stratified gene expression analysis identifies major amyotrophic lateral sclerosis genes. *Neurobiology of Aging*, **2015**, 36, 2006.e1-9	5.6	14
46	Corticospinal Motor Neurons Are Susceptible to Increased ER Stress and Display Profound Degeneration in the Absence of UCHL1 Function. *Cerebral Cortex*, **2015**, 25, 4259-72	5.1	52
45	Established monolayer differentiation of mouse embryonic stem cells generates heterogeneous neocortical-like neurons stalled at a stage equivalent to midcorticogenesis. *Journal of Comparative Neurology*, **2014**, 522, 2691-706	3.4	11
44	Established monolayer differentiation of mouse embryonic stem cells generates heterogeneous neocortical-like neurons stalled at a stage equivalent to midcorticogenesis. *Journal of Comparative Neurology*, **2014**, 522, Spc1-Spc1	3.4	1
43	Anatomic and molecular development of corticostriatal projection neurons in mice. *Cerebral Cortex*, **2014**, 24, 293-303	5.1	58
42	Molecular logic of neocortical projection neuron specification, development and diversity. *Nature Reviews Neuroscience*, **2013**, 14, 755-69	13.5	502
41	Deciphering amyotrophic lateral sclerosis: what phenotype, neuropathology and genetics are telling us about pathogenesis. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, **2013** , 14 Suppl 1, 5-18	3.6	120
40	Lmo4 establishes rostral motor cortex projection neuron subtype diversity. *Journal of Neuroscience*, **2013**, 33, 6321-32	6.6	37
39	SnapShot: cortical development. *Cell*, **2012**, 151, 918-918.e1	56.2	46
38	Human adult olfactory bulb neurogenesis? Novelty is the best policy. *Neuron*, **2012**, 74, 595-6	13.9	15

37	Identification of radial glia-like cells in the adult mouse olfactory bulb. *Experimental Neurology*, **2012**, 236, 283-97	5.7	4
36	Development, specification, and diversity of callosal projection neurons. *Trends in Neurosciences*, **2011**, 34, 41-50	13.3	245
35	Transplanted hypothalamic neurons restore leptin signaling and ameliorate obesity in db/db mice. *Science*, **2011**, 334, 1133-7	33.3	48
34	Corticospinal motor neurons and related subcerebral projection neurons undergo early and specific neurodegeneration in hSOD1G□A transgenic ALS mice. *Journal of Neuroscience*, **2011**, 31, 4166-77	6.6	125
33	Area-specific temporal control of corticospinal motor neuron differentiation by COUP-TFI. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3576-81	11.5	82
32	MeCP2 functions largely cell-autonomously, but also non-cell-autonomously, in neuronal maturation and dendritic arborization of cortical pyramidal neurons. *Experimental Neurology*, **2010**, 222, 51-8	5.7	71
31	Lmo4 and Clim1 progressively delineate cortical projection neuron subtypes during development. *Cerebral Cortex*, **2009**, 19 Suppl 1, i62-9	5.1	48
30	Novel subtype-specific genes identify distinct subpopulations of callosal projection neurons. *Journal of Neuroscience*, **2009**, 29, 12343-54	6.6	150
29	SOX6 controls dorsal progenitor identity and interneuron diversity during neocortical development. *Nature Neuroscience*, **2009**, 12, 1238-47	25.5	153
28	SOX5 controls the sequential generation of distinct corticofugal neuron subtypes. *Neuron*, **2008**, 57, 232-47	13.9	229
27	Bhlhb5 regulates the postmitotic acquisition of area identities in layers II-V of the developing neocortex. *Neuron*, **2008**, 60, 258-72	13.9	133
26	Ctip2 controls the differentiation of medium spiny neurons and the establishment of the cellular architecture of the striatum. *Journal of Neuroscience*, **2008**, 28, 622-32	6.6	213
25	Molecular Development of Corticospinal Motor Neuron Circuitry. *Novartis Foundation Symposium*, **2008**, 3-20		10
24	Identification of newborn cells by BrdU labeling and immunocytochemistry in vivo. *Methods in Molecular Biology*, **2008**, 438, 335-43	1.4	23
23	Neuronal subtype specification in the cerebral cortex. *Nature Reviews Neuroscience*, **2007**, 8, 427-37	13.5	1153
22	Everything that glitters isn't gold: a critical review of postnatal neural precursor analyses. *Cell Stem Cell*, **2007**, 1, 612-27	18	108
21	Molecular development of corticospinal motor neuron circuitry. *Experimental Neurology*, **2007**, 288, 3-15; discussion 15-20, 96-8	5.7	15
20	Astroglial heterogeneity closely reflects the neuronal-defined anatomy of the adult murine CNS. *Neuron Glia Biology*, **2006**, 2, 175-86		202

19	Induction of Adult Neurogenesis. *Annals of the New York Academy of Sciences*, **2006**, 991, 229-236	6.5	28
18	IGF-I specifically enhances axon outgrowth of corticospinal motor neurons. *Nature Neuroscience*, **2006**, 9, 1371-81	25.5	257
17	Neuronal subtype-specific genes that control corticospinal motor neuron development in vivo. *Neuron*, **2005**, 45, 207-21	13.9	822
16	Fezl is required for the birth and specification of corticospinal motor neurons. *Neuron*, **2005**, 47, 817-31	13.9	373
15	Adult-born and preexisting olfactory granule neurons undergo distinct experience-dependent modifications of their olfactory responses in vivo. *Journal of Neuroscience*, **2005**, 25, 10729-39	6.6	181
14	Large-scale maintenance of dual projections by callosal and frontal cortical projection neurons in adult mice. *Journal of Comparative Neurology*, **2005**, 482, 17-32	3.4	77
13	Neurogenesis of corticospinal motor neurons extending spinal projections in adult mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 16357-62	11.5	201
12	MECP2 is progressively expressed in post-migratory neurons and is involved in neuronal maturation rather than cell fate decisions. *Molecular and Cellular Neurosciences*, **2004**, 27, 306-21	4.8	341
11	Stage-specific and opposing roles of BDNF, NT-3 and bFGF in differentiation of purified callosal projection neurons toward cellular repair of complex circuitry. *European Journal of Neuroscience*, **2004**, 19, 2421-34	3.5	19
10	The repair of complex neuronal circuitry by transplanted and endogenous precursors. *Neurotherapeutics*, **2004**, 1, 452-471	6.4	0
9	Late-stage immature neocortical neurons reconstruct interhemispheric connections and form synaptic contacts with increased efficiency in adult mouse cortex undergoing targeted neurodegeneration. *Journal of Neuroscience*, **2002**, 22, 4045-56	6.6	86
8	Specific neurotrophic factors support the survival of cortical projection neurons at distinct stages of development. *Journal of Neuroscience*, **2001**, 21, 8863-72	6.6	59
7	Induction of neurogenesis in the neocortex of adult mice. *Nature*, **2000**, 405, 951-5	50.4	1030
6	Transplanted neuroblasts differentiate appropriately into projection neurons with correct neurotransmitter and receptor phenotype in neocortex undergoing targeted projection neuron degeneration. *Journal of Neuroscience*, **2000**, 20, 7404-16	6.6	87
5	Mature astrocytes transform into transitional radial glia within adult mouse neocortex that supports directed migration of transplanted immature neurons. *Experimental Neurology*, **1999**, 157, 43-57	5.7	101
4	Embryonic neurons transplanted to regions of targeted photolytic cell death in adult mouse somatosensory cortex re-form specific callosal projections. *Experimental Neurology*, **1996**, 139, 131-42	5.7	67
3	Transplanted Neocortical Neurons Migrate to Repopulate Selectively Neuron-Deficient Regions After Photolytic Pyramidal Neuron Degeneration. *Journal of Neural Transplantation & Plasticity*, **1992**, 3, 176-177		78
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