Freda D Miller

List of Publications by Year
in descending order

110 papers	14,798 citations	22099 59 h-index	30848 102 g-index
116 all docs	116 docs citations	116 times ranked	15455 citing authors

#	Article	IF	Citations
1	Neurotrophin signal transduction in the nervous system. Current Opinion in Neurobiology, 2000, 10, 381-391.	2.0	1,730
2	Isolation of multipotent adult stem cells from the dermis of mammalian skin. Nature Cell Biology, 2001, 3, 778-784.	4.6	1,503
3	A dermal niche for multipotent adult skin-derived precursor cells. Nature Cell Biology, 2004, 6, 1082-1093.	4.6	692
4	Isolation and Characterization of Multipotent Skin-Derived Precursors from Human Skin. Stem Cells, 2005, 23, 727-737.	1.4	613
5	Timing Is Everything: Making Neurons versus Glia in the Developing Cortex. Neuron, 2007, 54, 357-369.	3.8	498
6	An Anti-Apoptotic Role for the p53 Family Member, p73, During Developmental Neuron Death. Science, 2000, 289, 304-306.	6.0	444
7	Metformin Activates an Atypical PKC-CBP Pathway to Promote Neurogenesis and Enhance Spatial Memory Formation. Cell Stem Cell, 2012, 11, 23-35.	5.2	396
8	The TrkB-Shc Site Signals Neuronal Survival and Local Axon Growth via MEK and PI3-Kinase. Neuron, 2000, 27, 265-277.	3.8	385
9	SKPs Derive from Hair Follicle Precursors and Exhibit Properties of Adult Dermal Stem Cells. Cell Stem Cell, 2009, 5, 610-623.	5.2	335
10	Endogenously Produced Neurotrophins Regulate Survival and Differentiation of Cortical Progenitors via Distinct Signaling Pathways. Journal of Neuroscience, 2003, 23, 5149-5160.	1.7	305
11	Evidence that Embryonic Neurons Regulate the Onset of Cortical Gliogenesis via Cardiotrophin-1. Neuron, 2005, 48, 253-265.	3.8	299
12	Skin-Derived Precursors Generate Myelinating Schwann Cells for the Injured and Dysmyelinated Nervous System. Journal of Neuroscience, 2006, 26, 6651-6660.	1.7	298
13	Skin-Derived Precursors Generate Myelinating Schwann Cells That Promote Remyelination and Functional Recovery after Contusion Spinal Cord Injury. Journal of Neuroscience, 2007, 27, 9545-9559.	1.7	279
14	P53 Is Essential for Developmental Neuron Death as Regulated by the TrkA and p75 Neurotrophin Receptors. Journal of Cell Biology, 1998, 143, 1691-1703.	2.3	269
15	TAp63 Prevents Premature Aging by Promoting Adult Stem Cell Maintenance. Cell Stem Cell, 2009, 5, 64-75.	5.2	228
16	Signaling Mechanisms Underlying Reversible, Activity-Dependent Dendrite Formation. Neuron, 2002, 34, 985-998.	3.8	224
17	Developmental axon pruning mediated by BDNF-p75NTRâ€"dependent axon degeneration. Nature Neuroscience, 2008, 11, 649-658.	7.1	214
18	An Essential Role for a MEK-C/EBP Pathway during Growth Factor-Regulated Cortical Neurogenesis. Neuron, 2002, 36, 597-610.	3.8	188

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19	Isolation of skin-derived precursors (SKPs) and differentiation and enrichment of their Schwann cell progeny. Nature Protocols, 2006, 1, 2803-2812.	5.5	186
20	Trk signaling regulates neural precursor cell proliferation and differentiation during cortical development. Development (Cambridge), 2007, 134, 4369-4380.	1.2	182
21	Developmental Emergence of Adult Neural Stem Cells as Revealed by Single-Cell Transcriptional Profiling. Cell Reports, 2017, 21, 3970-3986.	2.9	171
22	CBP Histone Acetyltransferase Activity Regulates Embryonic Neural Differentiation in the Normal and Rubinstein-Taybi Syndrome Brain. Developmental Cell, 2010, 18, 114-125.	3.1	160
23	Mesenchymal Precursor Cells in Adult Nerves Contribute to Mammalian Tissue Repair and Regeneration. Cell Stem Cell, 2019, 24, 240-256.e9.	5.2	159
24	Dedifferentiated Schwann Cell Precursors Secreting Paracrine Factors Are Required for Regeneration of the Mammalian Digit Tip. Cell Stem Cell, 2016, 19, 433-448.	5.2	153
25	Ankrd11 Is a Chromatin Regulator Involved in Autism that Is Essential for Neural Development. Developmental Cell, 2015, 32, 31-42.	3.1	147
26	Signaling mechanisms underlying dendrite formation. Current Opinion in Neurobiology, 2003, 13, 391-398.	2.0	145
27	On Trk for Retrograde Signaling. Neuron, 2001, 32, 767-770.	3.8	144
28	p73 Is Required for Survival and Maintenance of CNS Neurons. Journal of Neuroscience, 2002, 22, 9800-9809.	1.7	141
29	FoxP2 Regulates Neurogenesis during Embryonic Cortical Development. Journal of Neuroscience, 2013, 33, 244-258.	1.7	138
30	Control of CNS Cell-Fate Decisions by SHP-2 and Its Dysregulation in Noonan Syndrome. Neuron, 2007, 54, 245-262.	3.8	128
31	Home at Last: Neural Stem Cell Niches Defined. Cell Stem Cell, 2009, 4, 507-510.	5.2	126
32	A Translational Repression Complex in Developing Mammalian Neural Stem Cells that Regulates Neuronal Specification. Neuron, 2018, 97, 520-537.e6.	3.8	124
33	Endogenous microglia regulate development of embryonic cortical precursor cells. Journal of Neuroscience Research, 2011, 89, 286-298.	1.3	123
34	Multipotent skin-derived precursors: adult neural crest-related precursors with therapeutic potential. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 185-198.	1.8	121
35	Analysis of the neurogenic potential of multipotent skin-derived precursors. Experimental Neurology, 2006, 201, 32-48.	2.0	113
36	TrkA mediates developmental sympathetic neuron survival in vivo by silencing an ongoing p75NTR-mediated death signal. Journal of Cell Biology, 2001, 155, 1275-1286.	2.3	107

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37	P63 Is an Essential Proapoptotic Protein during Neural Development. Neuron, 2005, 48, 743-756.	3.8	104
38	p75NTR-dependent, myelin-mediated axonal degeneration regulates neural connectivity in the adult brain. Nature Neuroscience, 2010, 13, 559-566.	7.1	104
39	The p53 family in nervous system development and disease. Journal of Neurochemistry, 2006, 97, 1571-1584.	2.1	101
40	Convergent Genesis of an Adult Neural Crest-Like Dermal Stem Cell from Distinct Developmental Origins. Stem Cells, 2010, 28, 2027-2040.	1.4	100
41	Metformin Acts on Two Different Molecular Pathways to Enhance Adult Neural Precursor Proliferation/Self-Renewal and Differentiation. Stem Cell Reports, 2015, 5, 988-995.	2.3	98
42	An Asymmetrically Localized Staufen2-Dependent RNA Complex Regulates Maintenance of Mammalian Neural Stem Cells. Cell Stem Cell, 2012, 11, 517-528.	5.2	96
43	Skin-Derived Precursors Differentiate Into Skeletogenic Cell Types and Contribute to Bone Repair. Stem Cells and Development, 2009, 18, 893-906.	1.1	92
44	Activating Endogenous Neural Precursor Cells Using Metformin Leads to Neural Repair and Functional Recovery in a Model of Childhood Brain Injury. Stem Cell Reports, 2015, 5, 166-173.	2.3	91
45	Evidence That Helix-Loop-Helix Proteins Collaborate with Retinoblastoma Tumor Suppressor Protein to Regulate Cortical Neurogenesis. Journal of Neuroscience, 2000, 20, 7648-7656.	1.7	87
46	A transcriptional role for C/EBP Î² in the neuronal response to axonal injury. Molecular and Cellular Neurosciences, 2005, 29, 525-535.	1.0	86
47	Lfc and Tctex-1 regulate the genesis of neurons from cortical precursor cells. Nature Neuroscience, 2009, 12, 735-744.	7.1	86
48	An eIF4E1/4E-T Complex Determines the Genesis of Neurons from Precursors by Translationally Repressing a Proneurogenic Transcription Program. Neuron, 2014, 84, 723-739.	3.8	86
49	Mobilizing Endogenous Stem Cells for Repair and Regeneration: Are We There Yet?. Cell Stem Cell, 2012, 10, 650-652.	5.2	81
50	CCAAT/Enhancer-Binding Protein Phosphorylation Biases Cortical Precursors to Generate Neurons Rather Than Astrocytes In Vivo. Journal of Neuroscience, 2005, 25, 10747-10758.	1.7	80
51	Sox2-Mediated Regulation of Adult Neural Crest Precursors and Skin Repair. Stem Cell Reports, 2013, 1, 38-45.	2.3	80
52	Transient Maternal IL-6 Mediates Long-Lasting Changes in Neural Stem Cell Pools by Deregulating an Endogenous Self-Renewal Pathway. Cell Stem Cell, 2013, 13, 564-576.	5.2	75
53	Acquisition of a Unique Mesenchymal Precursor-like Blastema State Underlies Successful Adult Mammalian Digit Tip Regeneration. Developmental Cell, 2020, 52, 509-524.e9.	3.1	74
54	TAp73 Acts via the bHLH Hey2 to Promote Long-Term Maintenance of Neural Precursors. Current Biology, 2010, 20, 2058-2065.	1.8	73

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55	Activity Regulates Positive and Negative Neurotrophin-Derived Signals to Determine Axon Competition. Neuron, 2005, 45, 837-845.	3.8	71
56	Schwann Cells Generated from Neonatal Skin-Derived Precursors or Neonatal Peripheral Nerve Improve Functional Recovery after Acute Transplantation into the Partially Injured Cervical Spinal Cord of the Rat. Journal of Neuroscience, 2015, 35, 6714-6730.	1.7	70
57	Migrating Interneurons Secrete Fractalkine to Promote Oligodendrocyte Formation in the Developing Mammalian Brain. Neuron, 2017, 94, 500-516.e9.	3.8	69
58	Assessment of cognitive and neural recovery in survivors of pediatric brain tumors in a pilot clinical trial using metformin. Nature Medicine, 2020, 26, 1285-1294.	15.2	65
59	An Essential Role for the Integrin-Linked Kinase-Glycogen Synthase Kinase-3Â Pathway during Dendrite Initiation and Growth. Journal of Neuroscience, 2006, 26, 13344-13356.	1.7	64
60	Selective targeting of neuroblastoma tumourâ€initiating cells by compounds identified in stem cellâ€based small molecule screens. EMBO Molecular Medicine, 2010, 2, 371-384.	3.3	62
61	Evidence That ÂNp73 Promotes Neuronal Survival by p53-Dependent and p53-Independent Mechanisms. Journal of Neuroscience, 2004, 24, 9174-9184.	1.7	61
62	Interleukin-6 Regulates Adult Neural Stem Cell Numbers during Normal andÂAbnormal Post-natal Development. Stem Cell Reports, 2018, 10, 1464-1480.	2.3	61
63	The Invulnerability of Adult Neurons: A Critical Role for p73. Journal of Neuroscience, 2004, 24, 9638-9647.	1.7	59
64	Direct Genesis of Functional Rodent and Human Schwann Cells from Skin Mesenchymal Precursors. Stem Cell Reports, 2014, 3, 85-100.	2.3	53
65	Fat1 interacts with Fat4 to regulate neural tube closure, neural progenitor proliferation and apical constriction during mouse brain development. Development (Cambridge), 2015, 142, 2781-91.	1.2	53
66	The Protein Tyrosine Phosphatase Receptor Delta Regulates Developmental Neurogenesis. Cell Reports, 2020, 30, 215-228.e5.	2.9	50
67	p63 Antagonizes p53 to Promote the Survival of Embryonic Neural Precursor Cells. Journal of Neuroscience, 2009, 29, 6710-6721.	1.7	49
68	TrkA Induces Apoptosis of Neuroblastoma Cells and Does So via a p53-dependent Mechanism*[boxs]. Journal of Biological Chemistry, 2005, 280, 29199-29207.	1.6	46
69	p63 Regulates Adult Neural Precursor and Newly Born Neuron Survival to Control Hippocampal-Dependent Behavior. Journal of Neuroscience, 2013, 33, 12569-12585.	1.7	45
70	System-Level Analysis of Neuroblastoma Tumorâ€"Initiating Cells Implicates AURKB as a Novel Drug Target for Neuroblastoma. Clinical Cancer Research, 2010, 16, 4572-4582.	3.2	43
71	Directed Differentiation of Skin-Derived Precursors Into Functional Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2938-2948.	1.1	43
72	Single-Cell Profiling Shows Murine Forebrain Neural Stem Cells Reacquire a Developmental State when Activated for Adult Neurogenesis. Cell Reports, 2020, 32, 108022.	2.9	40

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73	Peripheral Nerve Single-Cell Analysis Identifies Mesenchymal Ligands that Promote Axonal Growth. ENeuro, 2020, 7, ENEURO.0066-20.2020.	0.9	40
74	A Smaug2-Based Translational Repression Complex Determines the Balance between Precursor Maintenance versus Differentiation during Mammalian Neurogenesis. Journal of Neuroscience, 2015, 35, 15666-15681.	1.7	39
75	Proneurogenic Ligands Defined by Modeling Developing Cortex Growth Factor Communication Networks. Neuron, 2016, 91, 988-1004.	3.8	39
76	Translating neural stem cells to neurons in the mammalian brain. Cell Death and Differentiation, 2019, 26, 2495-2512.	5.0	38
77	Costello syndrome H-Ras alleles regulate cortical development. Developmental Biology, 2009, 330, 440-451.	0.9	35
78	p75NTR is an obligate signaling receptor required for cues that cause sympathetic neuron growth cone collapse. Molecular and Cellular Neurosciences, 2010, 45, 108-120.	1.0	35
79	A Glo1-Methylglyoxal Pathway that Is Perturbed in Maternal Diabetes Regulates Embryonic and Adult Neural Stem Cell Pools in Murine Offspring. Cell Reports, 2016, 17, 1022-1036.	2.9	35
80	Comparison of the expression of a T?1:nlacZ transgene and T?1 ?-tubulin mRNA in the mature central nervous system. , 1996, 374, 52-69.		31
81	Characterization of dopaminergic midbrain neurons in a DBH:BDNF transgenic mouse. , 1999, 413, 449-462.		30
82	CBP regulates the differentiation of interneurons from ventral forebrain neural precursors during murine development. Developmental Biology, 2014, 385, 230-241.	0.9	27
83	Homozygous ARHGEF2 mutation causes intellectual disability and midbrain-hindbrain malformation. PLoS Genetics, 2017, 13, e1006746.	1.5	27
84	Retinoblastoma gene in mouse neural development. , 1996, 18, 81-91.		25
85	To Die or Not to Die: Neurons and p63. Cell Cycle, 2007, 6, 312-317.	1.3	24
86	Snail Coordinately Regulates Downstream Pathways to Control Multiple Aspects of Mammalian Neural Precursor Development. Journal of Neuroscience, 2014, 34, 5164-5175.	1.7	24
87	Coffinâ€"Lowry syndrome: A role for RSK2 in mammalian neurogenesis. Developmental Biology, 2010, 347, 348-359.	0.9	23
88	Riding the Waves: Neural and Nonneural Origins for Mesenchymal Stem Cells. Cell Stem Cell, 2007, 1, 129-130.	5.2	22
89	In vitro characterization of neurite extension using induced pluripotent stem cells derived from lissencephaly patients with TUBA1A missense mutations. Molecular Brain, 2016, 9, 70.	1.3	22
90	The noradrenergic system is necessary for survival of vulnerable midbrain dopaminergic neurons: implications for development and Parkinson's disease. Neurobiology of Aging, 2020, 85, 22-37.	1.5	21

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91	Transplantation of Skin Precursor-Derived Schwann Cells Yields Better Locomotor Outcomes and Reduces Bladder Pathology in Rats with Chronic Spinal Cord Injury. Stem Cell Reports, 2020, 15, 140-155.	2.3	21
92	Restoration of hippocampal neural precursor function by ablation of senescent cells in the aging stem cell niche. Stem Cell Reports, 2022, 17, 259-275.	2.3	21
93	Transcriptional repression of the growth-associated T?1 ?-tubulin gene by target contact. Journal of Neuroscience Research, 1997, 48, 477-487.	1.3	20
94	Cellular and molecular mechanisms that regulate mammalian digit tip regeneration. Open Biology, 2020, 10, 200194.	1.5	17
95	Isolation, Expansion, and Differentiation of Mouse Skin-Derived Precursors. Methods in Molecular Biology, 2009, 482, 159-170.	0.4	17
96	Identification of Drugs that Regulate Dermal Stem Cells and Enhance Skin Repair. Stem Cell Reports, 2016, 6, 74-84.	2.3	15
97	A Shared Transcriptional Identity for Forebrain and Dentate Gyrus Neural Stem Cells from Embryogenesis to Adulthood. ENeuro, 2022, 9, ENEURO.0271-21.2021.	0.9	15
98	A neuroprotective agent that inactivates prodegenerative TrkA and preserves mitochondria. Journal of Cell Biology, 2017, 216, 3655-3675.	2.3	14
99	White Matter Repair: Skin-Derived Precursors as a Source of Myelinating Cells. Canadian Journal of Neurological Sciences, 2010, 37, S34-S41.	0.3	13
100	Conditional ablation of p63 indicates that it is essential for embryonic development of the central nervous system. Cell Cycle, 2015, 14, 3270-3281.	1.3	13
101	LRIG1-Mediated Inhibition of EGF Receptor Signaling Regulates Neural Precursor Cell Proliferation in the Neocortex. Cell Reports, 2020, 33, 108257.	2.9	13
102	The Snail Transcription Factor Regulates the Numbers of Neural Precursor Cells and Newborn Neurons throughout Mammalian Life. PLoS ONE, 2014, 9, e104767.	1.1	7
103	A finger on the pulse of regeneration: insights into the cellular mechanisms of adult digit tip regeneration. Current Opinion in Genetics and Development, 2021, 70, 1-6.	1.5	5
104	Deciphering cell-cell communication in the developing mammalian brain. Neurogenesis (Austin, Tex), 2017, 4, e1286425.	1.5	2
105	[PL04]: Neural stem cells: From development to repair. International Journal of Developmental Neuroscience, 2008, 26, 827-827.	0.7	1
106	ISDN2014_0058: p63 and p73 coordinate p53 function to determine the balance between survival, cell death and senescence in adult neural precursor cells. International Journal of Developmental Neuroscience, 2015, 47, 13-13.	0.7	0
107	ISDN2014_0337: REMOVED: Snail coordinately regulates downstream pathways to control multiple aspects of mammalian neural precursor development. International Journal of Developmental Neuroscience, 2015, 47, 103-103.	0.7	0
108	ISDN2014_0064: The translational regulators eIF4E and 4Eâ€T form a repressive protein:mRNA complex that determines neural stem cell selfâ€renewal versus differentiation. International Journal of Developmental Neuroscience, 2015, 47, 15-15.	0.7	0

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109	QOL-53. METFORMIN RESULTS IN HIPPOCAMPAL REMODELING AND IMPROVED MEMORY ENCODING IN PAEDIATRIC BRAIN TUMOR SURVIVORS TREATED WITH CRANIAL RADIATION: A PILOT RANDOMIZED CONTROLLED CROSSOVER STUDY. Neuro-Oncology, 2018, 20, i168-i168.	0.6	0
110	Nervous System Aging, Degeneration, and the p53 Family. Research and Perspectives in Alzheimer's Disease, 2011, , 83-93.	0.1	0