

Freda D Miller

List of Publications by Year in descending order

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110
papers

14,798
citations

22153

59
h-index

30087

103
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. <i>Current Opinion in Neurobiology</i> , 2000, 10, 381-391.	4.2	1,730
2	Isolation of multipotent adult stem cells from the dermis of mammalian skin. <i>Nature Cell Biology</i> , 2001, 3, 778-784.	10.3	1,503
3	A dermal niche for multipotent adult skin-derived precursor cells. <i>Nature Cell Biology</i> , 2004, 6, 1082-1093.	10.3	692
4	Isolation and Characterization of Multipotent Skin-Derived Precursors from Human Skin. <i>Stem Cells</i> , 2005, 23, 727-737.	3.2	613
5	Timing Is Everything: Making Neurons versus Glia in the Developing Cortex. <i>Neuron</i> , 2007, 54, 357-369.	8.1	498
6	An Anti-Apoptotic Role for the p53 Family Member, p73, During Developmental Neuron Death. <i>Science</i> , 2000, 289, 304-306.	12.6	444
7	Metformin Activates an Atypical PKC-CBP Pathway to Promote Neurogenesis and Enhance Spatial Memory Formation. <i>Cell Stem Cell</i> , 2012, 11, 23-35.	11.1	396
8	The TrkB-Shc Site Signals Neuronal Survival and Local Axon Growth via MEK and PI3-Kinase. <i>Neuron</i> , 2000, 27, 265-277.	8.1	385
9	SKPs Derive from Hair Follicle Precursors and Exhibit Properties of Adult Dermal Stem Cells. <i>Cell Stem Cell</i> , 2009, 5, 610-623.	11.1	335
10	Endogenously Produced Neurotrophins Regulate Survival and Differentiation of Cortical Progenitors via Distinct Signaling Pathways. <i>Journal of Neuroscience</i> , 2003, 23, 5149-5160.	3.6	305
11	Evidence that Embryonic Neurons Regulate the Onset of Cortical Gliogenesis via Cardiotrophin-1. <i>Neuron</i> , 2005, 48, 253-265.	8.1	299
12	Skin-Derived Precursors Generate Myelinating Schwann Cells for the Injured and Dysmyelinated Nervous System. <i>Journal of Neuroscience</i> , 2006, 26, 6651-6660.	3.6	298
13	Skin-Derived Precursors Generate Myelinating Schwann Cells That Promote Remyelination and Functional Recovery after Contusion Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2007, 27, 9545-9559.	3.6	279
14	p53 Is Essential for Developmental Neuron Death as Regulated by the TrkA and p75 Neurotrophin Receptors. <i>Journal of Cell Biology</i> , 1998, 143, 1691-1703.	5.2	269
15	TAp63 Prevents Premature Aging by Promoting Adult Stem Cell Maintenance. <i>Cell Stem Cell</i> , 2009, 5, 64-75.	11.1	228
16	Signaling Mechanisms Underlying Reversible, Activity-Dependent Dendrite Formation. <i>Neuron</i> , 2002, 34, 985-998.	8.1	224
17	Developmental axon pruning mediated by BDNF-p75NTR-dependent axon degeneration. <i>Nature Neuroscience</i> , 2008, 11, 649-658.	14.8	214
18	An Essential Role for a MEK-C/EBP Pathway during Growth Factor-Regulated Cortical Neurogenesis. <i>Neuron</i> , 2002, 36, 597-610.	8.1	188

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19	Isolation of skin-derived precursors (SKPs) and differentiation and enrichment of their Schwann cell progeny. <i>Nature Protocols</i> , 2006, 1, 2803-2812.	12.0	186
20	Trk signaling regulates neural precursor cell proliferation and differentiation during cortical development. <i>Development (Cambridge)</i> , 2007, 134, 4369-4380.	2.5	182
21	Developmental Emergence of Adult Neural Stem Cells as Revealed by Single-Cell Transcriptional Profiling. <i>Cell Reports</i> , 2017, 21, 3970-3986.	6.4	171
22	CBP Histone Acetyltransferase Activity Regulates Embryonic Neural Differentiation in the Normal and Rubinstein-Taybi Syndrome Brain. <i>Developmental Cell</i> , 2010, 18, 114-125.	7.0	160
23	Mesenchymal Precursor Cells in Adult Nerves Contribute to Mammalian Tissue Repair and Regeneration. <i>Cell Stem Cell</i> , 2019, 24, 240-256.e9.	11.1	159
24	Dedifferentiated Schwann Cell Precursors Secreting Paracrine Factors Are Required for Regeneration of the Mammalian Digit Tip. <i>Cell Stem Cell</i> , 2016, 19, 433-448.	11.1	153
25	Ankrd11 Is a Chromatin Regulator Involved in Autism that Is Essential for Neural Development. <i>Developmental Cell</i> , 2015, 32, 31-42.	7.0	147
26	Signaling mechanisms underlying dendrite formation. <i>Current Opinion in Neurobiology</i> , 2003, 13, 391-398.	4.2	145
27	On Trk for Retrograde Signaling. <i>Neuron</i> , 2001, 32, 767-770.	8.1	144
28	p73 Is Required for Survival and Maintenance of CNS Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 9800-9809.	3.6	141
29	FoxP2 Regulates Neurogenesis during Embryonic Cortical Development. <i>Journal of Neuroscience</i> , 2013, 33, 244-258.	3.6	138
30	Control of CNS Cell-Fate Decisions by SHP-2 and Its Dysregulation in Noonan Syndrome. <i>Neuron</i> , 2007, 54, 245-262.	8.1	128
31	Home at Last: Neural Stem Cell Niches Defined. <i>Cell Stem Cell</i> , 2009, 4, 507-510.	11.1	126
32	A Translational Repression Complex in Developing Mammalian Neural Stem Cells that Regulates Neuronal Specification. <i>Neuron</i> , 2018, 97, 520-537.e6.	8.1	124
33	Endogenous microglia regulate development of embryonic cortical precursor cells. <i>Journal of Neuroscience Research</i> , 2011, 89, 286-298.	2.9	123
34	Multipotent skin-derived precursors: adult neural crest-related precursors with therapeutic potential. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 185-198.	4.0	121
35	Analysis of the neurogenic potential of multipotent skin-derived precursors. <i>Experimental Neurology</i> , 2006, 201, 32-48.	4.1	113
36	TrkA mediates developmental sympathetic neuron survival in vivo by silencing an ongoing p75NTR-mediated death signal. <i>Journal of Cell Biology</i> , 2001, 155, 1275-1286.	5.2	107

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37	P63 Is an Essential Proapoptotic Protein during Neural Development. <i>Neuron</i> , 2005, 48, 743-756.	8.1	104
38	p75NTR-dependent, myelin-mediated axonal degeneration regulates neural connectivity in the adult brain. <i>Nature Neuroscience</i> , 2010, 13, 559-566.	14.8	104
39	The p53 family in nervous system development and disease. <i>Journal of Neurochemistry</i> , 2006, 97, 1571-1584.	3.9	101
40	Convergent Genesis of an Adult Neural Crest-Like Dermal Stem Cell from Distinct Developmental Origins. <i>Stem Cells</i> , 2010, 28, 2027-2040.	3.2	100
41	Metformin Acts on Two Different Molecular Pathways to Enhance Adult Neural Precursor Proliferation/Self-Renewal and Differentiation. <i>Stem Cell Reports</i> , 2015, 5, 988-995.	4.8	98
42	An Asymmetrically Localized Staufen2-Dependent RNA Complex Regulates Maintenance of Mammalian Neural Stem Cells. <i>Cell Stem Cell</i> , 2012, 11, 517-528.	11.1	96
43	Skin-Derived Precursors Differentiate Into Skeletogenic Cell Types and Contribute to Bone Repair. <i>Stem Cells and Development</i> , 2009, 18, 893-906.	2.1	92
44	Activating Endogenous Neural Precursor Cells Using Metformin Leads to Neural Repair and Functional Recovery in a Model of Childhood Brain Injury. <i>Stem Cell Reports</i> , 2015, 5, 166-173.	4.8	91
45	Evidence That Helix-Loop-Helix Proteins Collaborate with Retinoblastoma Tumor Suppressor Protein to Regulate Cortical Neurogenesis. <i>Journal of Neuroscience</i> , 2000, 20, 7648-7656.	3.6	87
46	A transcriptional role for C/EBP β in the neuronal response to axonal injury. <i>Molecular and Cellular Neurosciences</i> , 2005, 29, 525-535.	2.2	86
47	Lfc and Tctex-1 regulate the genesis of neurons from cortical precursor cells. <i>Nature Neuroscience</i> , 2009, 12, 735-744.	14.8	86
48	An eIF4E1/4E-T Complex Determines the Genesis of Neurons from Precursors by Translationally Repressing a Proneurogenic Transcription Program. <i>Neuron</i> , 2014, 84, 723-739.	8.1	86
49	Mobilizing Endogenous Stem Cells for Repair and Regeneration: Are We There Yet?. <i>Cell Stem Cell</i> , 2012, 10, 650-652.	11.1	81
50	CCAAT/Enhancer-Binding Protein Phosphorylation Biases Cortical Precursors to Generate Neurons Rather Than Astrocytes In Vivo. <i>Journal of Neuroscience</i> , 2005, 25, 10747-10758.	3.6	80
51	Sox2-Mediated Regulation of Adult Neural Crest Precursors and Skin Repair. <i>Stem Cell Reports</i> , 2013, 1, 38-45.	4.8	80
52	Transient Maternal IL-6 Mediates Long-Lasting Changes in Neural Stem Cell Pools by Dereglulating an Endogenous Self-Renewal Pathway. <i>Cell Stem Cell</i> , 2013, 13, 564-576.	11.1	75
53	Acquisition of a Unique Mesenchymal Precursor-like Blastema State Underlies Successful Adult Mammalian Digit Tip Regeneration. <i>Developmental Cell</i> , 2020, 52, 509-524.e9.	7.0	74
54	TAp73 Acts via the bHLH Hey2 to Promote Long-Term Maintenance of Neural Precursors. <i>Current Biology</i> , 2010, 20, 2058-2065.	3.9	73

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55	Activity Regulates Positive and Negative Neurotrophin-Derived Signals to Determine Axon Competition. <i>Neuron</i> , 2005, 45, 837-845.	8.1	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. <i>Journal of Neuroscience</i> , 2015, 35, 6714-6730.	3.6	70
57	Migrating Interneurons Secrete Fractalkine to Promote Oligodendrocyte Formation in the Developing Mammalian Brain. <i>Neuron</i> , 2017, 94, 500-516.e9.	8.1	69
58	Assessment of cognitive and neural recovery in survivors of pediatric brain tumors in a pilot clinical trial using metformin. <i>Nature Medicine</i> , 2020, 26, 1285-1294.	30.7	65
59	An Essential Role for the Integrin-Linked Kinase-Glycogen Synthase Kinase-3 β Pathway during Dendrite Initiation and Growth. <i>Journal of Neuroscience</i> , 2006, 26, 13344-13356.	3.6	64
60	Selective targeting of neuroblastoma tumour-initiating cells by compounds identified in stem cell-based small molecule screens. <i>EMBO Molecular Medicine</i> , 2010, 2, 371-384.	6.9	62
61	Evidence That p73 Promotes Neuronal Survival by p53-Dependent and p53-Independent Mechanisms. <i>Journal of Neuroscience</i> , 2004, 24, 9174-9184.	3.6	61
62	Interleukin-6 Regulates Adult Neural Stem Cell Numbers during Normal and Abnormal Post-natal Development. <i>Stem Cell Reports</i> , 2018, 10, 1464-1480.	4.8	61
63	The Invulnerability of Adult Neurons: A Critical Role for p73. <i>Journal of Neuroscience</i> , 2004, 24, 9638-9647.	3.6	59
64	Direct Genesis of Functional Rodent and Human Schwann Cells from Skin Mesenchymal Precursors. <i>Stem Cell Reports</i> , 2014, 3, 85-100.	4.8	53
65	Fat1 interacts with Fat4 to regulate neural tube closure, neural progenitor proliferation and apical constriction during mouse brain development. <i>Development (Cambridge)</i> , 2015, 142, 2781-91.	2.5	53
66	The Protein Tyrosine Phosphatase Receptor Delta Regulates Developmental Neurogenesis. <i>Cell Reports</i> , 2020, 30, 215-228.e5.	6.4	50
67	p63 Antagonizes p53 to Promote the Survival of Embryonic Neural Precursor Cells. <i>Journal of Neuroscience</i> , 2009, 29, 6710-6721.	3.6	49
68	TrkA Induces Apoptosis of Neuroblastoma Cells and Does So via a p53-dependent Mechanism* [box]. <i>Journal of Biological Chemistry</i> , 2005, 280, 29199-29207.	3.4	46
69	p63 Regulates Adult Neural Precursor and Newly Born Neuron Survival to Control Hippocampal-Dependent Behavior. <i>Journal of Neuroscience</i> , 2013, 33, 12569-12585.	3.6	45
70	System-Level Analysis of Neuroblastoma Tumour-Initiating Cells Implicates AURKB as a Novel Drug Target for Neuroblastoma. <i>Clinical Cancer Research</i> , 2010, 16, 4572-4582.	7.0	43
71	Directed Differentiation of Skin-Derived Precursors Into Functional Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2938-2948.	2.4	43
72	Single-Cell Profiling Shows Murine Forebrain Neural Stem Cells Reacquire a Developmental State when Activated for Adult Neurogenesis. <i>Cell Reports</i> , 2020, 32, 108022.	6.4	40

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73	Peripheral Nerve Single-Cell Analysis Identifies Mesenchymal Ligands that Promote Axonal Growth. <i>ENeuro</i> , 2020, 7, ENEURO.0066-20.2020.	1.9	40
74	A Smaug2-Based Translational Repression Complex Determines the Balance between Precursor Maintenance versus Differentiation during Mammalian Neurogenesis. <i>Journal of Neuroscience</i> , 2015, 35, 15666-15681.	3.6	39
75	Proneurogenic Ligands Defined by Modeling Developing Cortex Growth Factor Communication Networks. <i>Neuron</i> , 2016, 91, 988-1004.	8.1	39
76	Translating neural stem cells to neurons in the mammalian brain. <i>Cell Death and Differentiation</i> , 2019, 26, 2495-2512.	11.2	38
77	Costello syndrome H-Ras alleles regulate cortical development. <i>Developmental Biology</i> , 2009, 330, 440-451.	2.0	35
78	p75NTR is an obligate signaling receptor required for cues that cause sympathetic neuron growth cone collapse. <i>Molecular and Cellular Neurosciences</i> , 2010, 45, 108-120.	2.2	35
79	A Glo1-Methylglyoxal Pathway that Is Perturbed in Maternal Diabetes Regulates Embryonic and Adult Neural Stem Cell Pools in Murine Offspring. <i>Cell Reports</i> , 2016, 17, 1022-1036.	6.4	35
80	Comparison of the expression of a T β 1:nlacZ transgene and T β 1 β -tubulin mRNA in the mature central nervous system. <i>Journal of Comparative Neurology</i> , 1996, 374, 52-69.	1.6	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. <i>Developmental Biology</i> , 2014, 385, 230-241.	2.0	27
83	Homozygous ARHGEF2 mutation causes intellectual disability and midbrain-hindbrain malformation. <i>PLoS Genetics</i> , 2017, 13, e1006746.	3.5	27
84	Retinoblastoma gene in mouse neural development. , 1996, 18, 81-91.		25
85	To Die or Not to Die: Neurons and p63. <i>Cell Cycle</i> , 2007, 6, 312-317.	2.6	24
86	Snail Coordinately Regulates Downstream Pathways to Control Multiple Aspects of Mammalian Neural Precursor Development. <i>Journal of Neuroscience</i> , 2014, 34, 5164-5175.	3.6	24
87	Coffinâ€“Lowry syndrome: A role for RSK2 in mammalian neurogenesis. <i>Developmental Biology</i> , 2010, 347, 348-359.	2.0	23
88	Riding the Waves: Neural and Nonneural Origins for Mesenchymal Stem Cells. <i>Cell Stem Cell</i> , 2007, 1, 129-130.	11.1	22
89	In vitro characterization of neurite extension using induced pluripotent stem cells derived from lissencephaly patients with TUBA1A missense mutations. <i>Molecular Brain</i> , 2016, 9, 70.	2.6	22
90	The noradrenergic system is necessary for survival of vulnerable midbrain dopaminergic neurons: implications for development and Parkinson's disease. <i>Neurobiology of Aging</i> , 2020, 85, 22-37.	3.1	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. <i>Stem Cell Reports</i> , 2020, 15, 140-155.	4.8	21
92	Restoration of hippocampal neural precursor function by ablation of senescent cells in the aging stem cell niche. <i>Stem Cell Reports</i> , 2022, 17, 259-275.	4.8	21
93	Transcriptional repression of the growth-associated T β 1 β -tubulin gene by target contact. <i>Journal of Neuroscience Research</i> , 1997, 48, 477-487.	2.9	20
94	Cellular and molecular mechanisms that regulate mammalian digit tip regeneration. <i>Open Biology</i> , 2020, 10, 200194.	3.6	17
95	Isolation, Expansion, and Differentiation of Mouse Skin-Derived Precursors. <i>Methods in Molecular Biology</i> , 2009, 482, 159-170.	0.9	17
96	Identification of Drugs that Regulate Dermal Stem Cells and Enhance Skin Repair. <i>Stem Cell Reports</i> , 2016, 6, 74-84.	4.8	15
97	A Shared Transcriptional Identity for Forebrain and Dentate Gyrus Neural Stem Cells from Embryogenesis to Adulthood. <i>ENeuro</i> , 2022, 9, ENEURO.0271-21.2021.	1.9	15
98	A neuroprotective agent that inactivates prodegenerative TrkA and preserves mitochondria. <i>Journal of Cell Biology</i> , 2017, 216, 3655-3675.	5.2	14
99	White Matter Repair: Skin-Derived Precursors as a Source of Myelinating Cells. <i>Canadian Journal of Neurological Sciences</i> , 2010, 37, S34-S41.	0.5	13
100	Conditional ablation of p63 indicates that it is essential for embryonic development of the central nervous system. <i>Cell Cycle</i> , 2015, 14, 3270-3281.	2.6	13
101	LRIG1-Mediated Inhibition of EGF Receptor Signaling Regulates Neural Precursor Cell Proliferation in the Neocortex. <i>Cell Reports</i> , 2020, 33, 108257.	6.4	13
102	The Snail Transcription Factor Regulates the Numbers of Neural Precursor Cells and Newborn Neurons throughout Mammalian Life. <i>PLoS ONE</i> , 2014, 9, e104767.	2.5	7
103	A finger on the pulse of regeneration: insights into the cellular mechanisms of adult digit tip regeneration. <i>Current Opinion in Genetics and Development</i> , 2021, 70, 1-6.	3.3	5
104	Deciphering cell-cell communication in the developing mammalian brain. <i>Neurogenesis (Austin, Tex)</i> , 2017, 4, e1286425.	1.5	2
105	[PLO4]: Neural stem cells: From development to repair. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 827-827.	1.6	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. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 13-13.	1.6	0
107	ISDN2014_0337: REMOVED: Snail coordinately regulates downstream pathways to control multiple aspects of mammalian neural precursor development. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 103-103.	1.6	0
108	ISDN2014_0064: The translational regulators eIF4E and 4E β T form a repressive protein:mRNA complex that determines neural stem cell self-renewal versus differentiation. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 15-15.	1.6	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. <i>Neuro-Oncology</i> , 2018, 20, i168-i168.	1.2	0
110	Nervous System Aging, Degeneration, and the p53 Family. <i>Research and Perspectives in Alzheimer's Disease</i> , 2011, , 83-93.	0.1	0