Clare L Parish

List of Publications by Year
in descending order

106 papers	4,463 citations	81900 39 h-index	118850 62 g-index
112 all docs	112 docs citations	112 times ranked	6258 citing authors

#	Article	IF	Citations
1	Axonal sprouting following lesions of the rat substantia nigra. Neuroscience, 2000, 97, 99-112.	2.3	180
2	Macrophages and Microglia Produce Local Trophic Gradients That Stimulate Axonal Sprouting Toward but Not beyond the Wound Edge. Molecular and Cellular Neurosciences, 2002, 21, 436-453.	2.2	178
3	Three-Dimensional Nanofibrous Scaffolds Incorporating Immobilized BDNF Promote Proliferation and Differentiation of Cortical Neural Stem Cells. Stem Cells and Development, 2010, 19, 843-852.	2.1	158
4	Wnt5a-treated midbrain neural stem cells improve dopamine cell replacement therapy in parkinsonian mice. Journal of Clinical Investigation, 2008, 118, 149-160.	8.2	152
5	Inhibition of amyloid beta toxicity in zebrafish with a chaperone-gold nanoparticle dual strategy. Nature Communications, 2019, 10, 3780.	12.8	132
6	Liver X Receptors and Oxysterols Promote Ventral Midbrain Neurogenesis In Vivo and in Human Embryonic Stem Cells. Cell Stem Cell, 2009, 5, 409-419.	11.1	129
7	The Role of Dopamine Receptors in Regulating the Size of Axonal Arbors. Journal of Neuroscience, 2001, 21, 5147-5157.	3.6	114
8	The Role of Interleukin-1, Interleukin-6, and Glia in Inducing Growth of Neuronal Terminal Arbors in Mice. Journal of Neuroscience, 2002, 22, 8034-8041.	3.6	100
9	Midbrain dopaminergic neurogenesis and behavioural recovery in a salamander lesion-induced regeneration model. Development (Cambridge), 2007, 134, 2881-2887.	2.5	99
10	Biomaterials for Brain Tissue Engineering. Australian Journal of Chemistry, 2010, 63, 1143.	0.9	99
11	Huntingtin Inclusions Trigger Cellular Quiescence, Deactivate Apoptosis, and Lead to Delayed Necrosis. Cell Reports, 2017, 19, 919-927.	6.4	98
12	Functional Integration of Grafted Neural Stem Cell-Derived Dopaminergic Neurons Monitored by Optogenetics in an In Vitro Parkinson Model. PLoS ONE, 2011, 6, e17560.	2.5	94
13	Functionalized composite scaffolds improve the engraftment of transplanted dopaminergic progenitors in a mouse model of Parkinson's disease. Biomaterials, 2016, 74, 89-98.	11.4	89
14	Peptide-Based Scaffolds Support Human Cortical Progenitor Graft Integration to Reduce Atrophy and Promote Functional Repair in a Model of Stroke. Cell Reports, 2017, 20, 1964-1977.	6.4	88
15	Promoting engraftment of transplanted neural stem cells/progenitors using biofunctionalised electrospun scaffolds. Biomaterials, 2012, 33, 9188-9197.	11.4	87
16	Wnt5a Regulates Midbrain Dopaminergic Axon Growth and Guidance. PLoS ONE, 2011, 6, e18373.	2.5	86
17	Genome-wide binding and mechanistic analyses of Smchd1-mediated epigenetic regulation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3535-44.	7.1	83
18	The human testisâ€determining factor SRY localizes in midbrain dopamine neurons and regulates multiple components of catecholamine synthesis and metabolism. Journal of Neurochemistry, 2012, 122, 260-271.	3.9	82

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19	Birth dating of midbrain dopamine neurons identifies A9 enriched tissue for transplantation into Parkinsonian mice. Experimental Neurology, 2012, 236, 58-68.	4.1	82
20	Organized Development from Human Embryonic Stem Cells after Injection into Immunodeficient Mice. Stem Cells and Development, 2004, 13, 421-435.	2.1	81
21	An Efficient Method for the Derivation of Mouse Embryonic Stem Cells. Stem Cells, 2006, 24, 844-849.	3.2	77
22	In vivo assessment of grafted cortical neural progenitor cells and host response to functionalized self-assembling peptide hydrogels and the implications for tissue repair. Journal of Materials Chemistry B, 2014, 2, 7771-7778.	5.8	71
23	Wnt/Î²-Catenin Signaling Blockade Promotes Neuronal Induction and Dopaminergic Differentiation in Embryonic Stem Cells. Stem Cells, 2009, 27, N/A-N/A.	3.2	64
24	Cripto as a Target for Improving Embryonic Stem Cellâ€"Based Therapy in Parkinson's Disease. Stem Cells, 2005, 23, 471-476.	3.2	62
25	Effects of long-term treatment with dopamine receptor agonists and antagonists on terminal arbor size. European Journal of Neuroscience, 2002, 16, 787-794.	2.6	61
26	Tuning the amino acid sequence of minimalist peptides to present biological signals via charge neutralised self assembly. Soft Matter, 2013, 9, 3915.	2.7	60
27	SFRP1 and SFRP2 Doseâ€Dependently Regulate Midbrain Dopamine Neuron Development In Vivo and in Embryonic Stem Cells. Stem Cells, 2012, 30, 865-875.	3.2	58
28	Viral Delivery of GDNF Promotes Functional Integration of Human Stem Cell Grafts in Parkinsonâ€™s Disease. Cell Stem Cell, 2020, 26, 511-526.e5.	11.1	56
29	Efficiently Specified Ventral Midbrain Dopamine Neurons from Human Pluripotent Stem Cells Under Xeno-Free Conditions Restore Motor Deficits in Parkinsonian Rodents. Stem Cells Translational Medicine, 2017, 6, 937-948.	3.3	55
30	Transcriptome analysis reveals transmembrane targets on transplantable midbrain dopamine progenitors. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1946-E1955.	7.1	52
31	Changes in function and ultrastructure of striatal dopaminergic terminals that regenerate following partial lesions of the SNpc. Journal of Neurochemistry, 2004, 86, 329-343.	3.9	48
32	Neuronal activity regulates expression of tyrosine hydroxylase in adult mouse substantia nigra pars compacta neurons. Journal of Neurochemistry, 2011, 116, 646-658.	3.9	47
33	3D Electrospun scaffolds promote a cytotrophic phenotype of cultured primary astrocytes. Journal of Neurochemistry, 2014, 130, 215-226.	3.9	47
34	Using minimalist selfâ€assembling peptides as hierarchical scaffolds to stabilise growth factors and promote stem cell integration in the injured brain. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1571-e1579.	2.7	44
35	Spontaneous formation of Î²-sheet nano-barrels during the early aggregation of Alzheimerâ€™s amyloid beta. Nano Today, 2021, 38, 101125.	11.9	44
36	Stem-Cell-Based Strategies for the Treatment of Parkinsonâ€™s Disease. Neurodegenerative Diseases, 2007, 4, 339-347.	1.4	41

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37	Dopamine D² receptor knockout mice develop features of Parkinson disease. Annals of Neurology, 2009, 66, 472-484.	5.3	41
38	Biofunctionalisation of polymeric scaffolds for neural tissue engineering. Journal of Biomaterials Applications, 2012, 27, 369-390.	2.4	41
39	Neurons derived from human embryonic stem cells extend long-distance axonal projections through growth along host white matter tracts after intra-cerebral transplantation. Frontiers in Cellular Neuroscience, 2012, 6, 11.	3.7	41
40	Tailoring minimalist self-assembling peptides for localized viral vector gene delivery. Nano Research, 2016, 9, 674-684.	10.4	41
41	A Small Synthetic Cripto Blocking Peptide Improves Neural Induction, Dopaminergic Differentiation, and Functional Integration of Mouse Embryonic Stem Cells in a Rat Model of Parkinson's Disease Â. Stem Cells, 2010, 28, 1326-1337.	3.2	40
42	14-3-3Î¶ deficient mice in the BALB/c background display behavioural and anatomical defects associated with neurodevelopmental disorders. Scientific Reports, 2015, 5, 12434.	3.3	39
43	Temporally controlled release of multiple growth factors from a self-assembling peptide hydrogel. Nanotechnology, 2016, 27, 385102.	2.6	38
44	Temporally controlled growth factor delivery from a self-assembling peptide hydrogel and electrospun nanofibre composite scaffold. Nanoscale, 2017, 9, 13661-13669.	5.6	37
45	Mice Lacking the Î±4 Nicotinic Receptor Subunit Fail to Modulate Dopaminergic Neuronal Arbors and Possess Impaired Dopamine Transporter Function. Molecular Pharmacology, 2005, 68, 1376-1386.	2.3	36
46	Harnessing stem cells and biomaterials to promote neural repair. British Journal of Pharmacology, 2019, 176, 355-368.	5.4	34
47	Cell intrinsic and extrinsic factors contribute to enhance neural circuit reconstruction following transplantation in Parkinsonian mice. Journal of Physiology, 2013, 591, 77-91.	2.9	33
48	Biomimetic Materials and Their Utility in Modeling the 3-Dimensional Neural Environment. IScience, 2020, 23, 100788.	4.1	33
49	Diverse Roles for Wnt7a in Ventral Midbrain Neurogenesis and Dopaminergic Axon Morphogenesis. Stem Cells and Development, 2014, 23, 1991-2003.	2.1	32
50	A PITX3 -EGFP Reporter Line Reveals Connectivity of Dopamine and Non-dopamine Neuronal Subtypes in Grafts Generated from Human Embryonic Stem Cells. Stem Cell Reports, 2017, 9, 868-882.	4.8	32
51	Modulating Wnt signaling to improve cell replacement therapy for Parkinson's disease. Journal of Molecular Cell Biology, 2014, 6, 54-63.	3.3	31
52	Efficient expansion and dopaminergic differentiation of human fetal ventral midbrain neural stem cells by midbrain morphogens. Neurobiology of Disease, 2013, 49, 118-127.	4.4	30
53	Characterization of the Stability and Bio-functionality of Tethered Proteins on Bioengineered Scaffolds. Journal of Biological Chemistry, 2014, 289, 15044-15051.	3.4	29
54	Dopamine Receptor Antagonists Enhance Proliferation and Neurogenesis of Midbrain Lmx1a-expressing Progenitors. Scientific Reports, 2016, 6, 26448.	3.3	29

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55	The application of human pluripotent stem cells to model the neuronal and glial components of neurodevelopmental disorders. Molecular Psychiatry, 2020, 25, 368-378.	7.9	29
56	Ryk, a Receptor Regulating Wnt5a-Mediated Neurogenesis and Axon Morphogenesis of Ventral Midbrain Dopaminergic Neurons. Stem Cells and Development, 2013, 22, 2132-2144.	2.1	28
57	Locomotor hyperactivity in 14-3-3Î¶ KO mice is associated with dopamine transporter dysfunction. Translational Psychiatry, 2013, 3, e327-e327.	4.8	28
58	Shear Containment of BDNF within Molecular Hydrogels Promotes Human Stem Cell Engraftment and Postinfarction Remodeling in Stroke. Advanced Biology, 2018, 2, 1800113.	3.0	28
59	Functional Characterization of Friedreich Ataxia iPS-Derived Neuronal Progenitors and Their Integration in the Adult Brain. PLoS ONE, 2014, 9, e101718.	2.5	27
60	GAPTrap: A Simple Expression System for Pluripotent Stem Cells and Their Derivatives. Stem Cell Reports, 2016, 7, 518-526.	4.8	27
61	Integrating Biomaterials and Stem Cells for Neural Regeneration. Stem Cells and Development, 2016, 25, 214-226.	2.1	26
62	Chondroitinase improves midbrain pathway reconstruction by transplanted dopamine progenitors in Parkinsonian mice. Molecular and Cellular Neurosciences, 2015, 69, 22-29.	2.2	23
63	Isolation of LMX1a Ventral Midbrain Progenitors Improves the Safety and Predictability of Human Pluripotent Stem Cell-Derived Neural Transplants in Parkinsonian Disease. Journal of Neuroscience, 2019, 39, 9521-9531.	3.6	23
64	A combined cell and gene therapy approach for homotopic reconstruction of midbrain dopamine pathways using human pluripotent stem cells. Cell Stem Cell, 2022, 29, 434-448.e5.	11.1	23
65	A Fully Human Inhibitory Monoclonal Antibody to the Wnt Receptor RYK. PLoS ONE, 2013, 8, e75447.	2.5	22
66	Long-Distance Axonal Growth and Protracted Functional Maturation of Neurons Derived from Human Induced Pluripotent Stem Cells After Intracerebral Transplantation. Stem Cells Translational Medicine, 2017, 6, 1547-1556.	3.3	21
67	Homophilic binding of the neural cell adhesion molecule CHL1 regulates development of ventral midbrain dopaminergic pathways. Scientific Reports, 2017, 7, 9368.	3.3	21
68	Human stem cells harboring a suicide gene improve theÂsafety and standardisation of neural transplants in Parkinsonian rats. Nature Communications, 2021, 12, 3275.	12.8	21
69	Transplantation of Fetal Midbrain Dopamine Progenitors into a Rodent Model of Parkinsonâ€™s Disease. Methods in Molecular Biology, 2013, 1059, 169-180.	0.9	21
70	Modelling the dopamine and noradrenergic cell loss that occurs in Parkinson's disease and the impact on hippocampal neurogenesis. Hippocampus, 2018, 28, 327-337.	1.9	20
71	Axonal Growth of Midbrain Dopamine Neurons is Modulated by the Cell Adhesion Molecule ALCAM Through <i>Trans</i>-Heterophilic Interactions with L1cam, Chl1, and Semaphorins. Journal of Neuroscience, 2019, 39, 6656-6667.	3.6	20
72	Inhibition of JNK increases survival of transplanted dopamine neurons in Parkinsonian rats. Cell Death and Differentiation, 2007, 14, 381-383.	11.2	19

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73	Cellular Up-regulation of Nedd4 Family Interacting Protein 1 (Ndfip1) using Low Levels of Bioactive Cobalt Complexes. Journal of Biological Chemistry, 2011, 286, 8555-8564.	3.4	19
74	Chronic cocaine administration reduces striatal dopamine terminal density and striatal dopamine release which leads to drug-seeking behaviour. Neuroscience, 2011, 174, 143-150.	2.3	18
75	An Optimized Protocol for the Generation of Midbrain Dopamine Neurons under Defined Conditions. STAR Protocols, 2020, 1, 100065.	1.2	18
76	The association of enteric neuropathy with gut phenotypes in acute and progressive models of Parkinsonâ€™s disease. Scientific Reports, 2021, 11, 7934.	3.3	18
77	Primary tissue for cellular brain repair in Parkinson's disease: Promise, problems and the potential of biomaterials. European Journal of Neuroscience, 2019, 49, 472-486.	2.6	18
78	Investigation of nerve pathways mediating colorectal dysfunction in Parkinsonâ€™s disease model produced by lesion of nigrostriatal dopaminergic neurons. Neurogastroenterology and Motility, 2020, 32, e13893.	3.0	17
79	Haloperidol treatment reverses behavioural and anatomical changes in cocaine-dependent mice. Neurobiology of Disease, 2005, 19, 301-311.	4.4	16
80	Tissue Programmed Hydrogels Functionalized with GDNF Improve Human Neural Grafts in Parkinson's Disease. Advanced Functional Materials, 2021, 31, 2105301.	14.9	16
81	Resolving pathobiological mechanisms relating to Huntington disease: Gait, balance, and involuntary movements in mice with targeted ablation of striatal D1 dopamine receptor cells. Neurobiology of Disease, 2014, 62, 323-337.	4.4	14
82	Meningeal cells influence midbrain development and the engraftment of dopamine progenitors in Parkinsonian mice. Experimental Neurology, 2015, 267, 30-41.	4.1	12
83	FGF-MAPK signaling regulates human deep-layer corticogenesis. Stem Cell Reports, 2021, 16, 1262-1275.	4.8	12
84	Chronic corticotropin-releasing factor type 1 receptor antagonism with antalarmin regulates the dopaminergic system of Fawn-Hooded rats. Journal of Neurochemistry, 2005, 94, 1523-1534.	3.9	11
85	Generation of four iPSC lines from peripheral blood mononuclear cells (PBMCs) of an attention deficit hyperactivity disorder (ADHD) individual and a healthy sibling in an Australia-Caucasian family. Stem Cell Research, 2019, 34, 101353.	0.7	11
86	Motor and behavioral phenotype in conditional mutants with targeted ablation of cortical D1 dopamine receptor-expressing cells. Neurobiology of Disease, 2015, 76, 137-158.	4.4	9
87	Changing Fate: Reprogramming Cells via Engineered Nanoscale Delivery Materials. Advanced Materials, 2022, 34, e2108757.	21.0	9
88	Quantified Assessment of Terminal Density and Innervation. Current Protocols in Neuroscience, 2004, 27, Unit 1.13.	2.6	8
89	Over-Expression of Meteorin Drives Gliogenesis Following Striatal Injury. Frontiers in Cellular Neuroscience, 2016, 10, 177.	3.7	7
90	Combined immunohistochemical and retrograde tracing reveals little evidence of innervation of the rat dentate gyrus by midbrain dopamine neurons. Frontiers in Biology, 2016, 11, 246-255.	0.7	7

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91	Specification of murine ground state pluripotent stem cells to regional neuronal populations. Scientific Reports, 2017, 7, 16001.	3.3	7
92	Transcriptional Profiling of Xenogeneic Transplants: Examining Human Pluripotent Stem Cell-Derived Grafts in the Rodent Brain. Stem Cell Reports, 2019, 13, 877-890.	4.8	7
93	The Potential of Stem Cells and Tissue Engineered Scaffolds for Repair of the Central Nervous System. , 2012, , 97-111.		6
94	Long-Term Motor Deficit and Diffuse Cortical Atrophy Following Focal Cortical Ischemia in Athymic Rats. Frontiers in Cellular Neuroscience, 2019, 13, 552.	3.7	6
95	Extracellular Matrix Biomimetic Hydrogels, Encapsulated with Stromal Cell-Derived Factor 1, Improve the Composition of Foetal Tissue Grafts in a Rodent Model of Parkinsonâ€™s Disease. International Journal of Molecular Sciences, 2022, 23, 4646.	4.1	6
96	Development of an In Vitro Model to Evaluate the Regenerative Capacity of Adult Brain-Derived Tyrosine Hydroxylase-Expressing Dopaminergic Neurons. Neurochemical Research, 2011, 36, 967-977.	3.3	5
97	Local Injection of Endothelin-1 in the Early Neonatal Rat Brain Models Ischemic Damage Associated with Motor Impairment and Diffuse Loss in Brain Volume. Neuroscience, 2018, 393, 110-122.	2.3	3
98	Ischemic Injury Does Not Stimulate Striatal Neuron Replacement Even during Periods of Active Striatal Neurogenesis. IScience, 2020, 23, 101175.	4.1	3
99	Creating a Ventral Midbrain Stem Cell Niche in an Animal Model for Parkinson's Disease. Stem Cells and Development, 2010, 19, 1995-2007.	2.1	2
100	Focal Ischemic Injury to the Early Neonatal Rat Brain Models Cognitive and Motor Deficits with Associated Histopathological Outcomes Relevant to Human Neonatal Brain Injury. International Journal of Molecular Sciences, 2021, 22, 4740.	4.1	2
101	Developing stem cell-based therapies for neural repair. Frontiers in Cellular Neuroscience, 2013, 7, 198.	3.7	1
102	Harnessing stem cells and biomaterials to promote neural repair. British Journal of Pharmacology, 2019, 176, 355-368.	5.4	1
103	The Role of Dopamine Receptors in Regulating the Size of Axonal Arbours. Advances in Behavioral Biology, 2002, , 313-321.	0.2	1
104	Changes in function and ultrastructure of striatal dopaminergic terminals that regenerate following partial lesions of the SNpc. Journal of Neurochemistry, 2004, 87, 1056-1056.	3.9	0
105	Spontaneous Formation of Lewy Bodies in a Rodent. , 2005, , 321-329.		0
106	A Hydrogel as a Bespoke Delivery Platform for Stromal Cell-Derived Factor-1. Gels, 2022, 8, 224.	4.5	0