

# Lachlan H Thompson

## List of Publications by Year in descending order

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67  
papers

2,461  
citations

201385

27  
h-index

205818

48  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hippocampal Lewy pathology and cholinergic dysfunction are associated with dementia in Parkinson's disease. <i>Brain</i> , 2014, 137, 2493-2508.	3.7	232
2	Identification of Dopaminergic Neurons of Nigral and Ventral Tegmental Area Subtypes in Grafts of Fetal Ventral Mesencephalon Based on Cell Morphology, Protein Expression, and Efferent Projections. <i>Journal of Neuroscience</i> , 2005, 25, 6467-6477.	1.7	212
3	Efficient production of mesencephalic dopamine neurons by Lmx1a expression in embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7613-7618.	3.3	196
4	The A9 dopamine neuron component in grafts of ventral mesencephalon is an important determinant for recovery of motor function in a rat model of Parkinson's disease. <i>Brain</i> , 2010, 133, 482-495.	3.7	125
5	Reconstruction of the nigrostriatal dopamine pathway in the adult mouse brain. <i>European Journal of Neuroscience</i> , 2009, 30, 625-638.	1.2	116
6	Peptide-Based Scaffolds Support Human Cortical Progenitor Graft Integration to Reduce Atrophy and Promote Functional Repair in a Model of Stroke. <i>Cell Reports</i> , 2017, 20, 1964-1977.	2.9	88
7	Birth dating of midbrain dopamine neurons identifies A9 enriched tissue for transplantation into Parkinsonian mice. <i>Experimental Neurology</i> , 2012, 236, 58-68.	2.0	82
8	GIRK2 expression in dopamine neurons of the substantia nigra and ventral tegmental area. <i>Journal of Comparative Neurology</i> , 2012, 520, 2591-2607.	0.9	76
9	Identification of transplantable dopamine neuron precursors at different stages of midbrain neurogenesis. <i>Experimental Neurology</i> , 2009, 219, 341-354.	2.0	64
10	Are Stem Cell-Based Therapies for Parkinson's Disease Ready for the Clinic in 2016?. <i>Journal of Parkinson's Disease</i> , 2016, 6, 57-63.	1.5	57
11	Reconstruction of brain circuitry by neural transplants generated from pluripotent stem cells. <i>Neurobiology of Disease</i> , 2015, 79, 28-40.	2.1	56
12	Viral Delivery of GDNF Promotes Functional Integration of Human Stem Cell Grafts in Parkinson's Disease. <i>Cell Stem Cell</i> , 2020, 26, 511-526.e5.	5.2	56
13	Efficiently Specified Ventral Midbrain Dopamine Neurons from Human Pluripotent Stem Cells Under Xeno-Free Conditions Restore Motor Deficits in Parkinsonian Rodents. <i>Stem Cells Translational Medicine</i> , 2017, 6, 937-948.	1.6	55
14	Isolation and characterization of neural precursor cells from the Sox1-GFP reporter mouse. <i>European Journal of Neuroscience</i> , 2005, 22, 1555-1569.	1.2	53
15	Cometin is a novel neurotrophic factor that promotes neurite outgrowth and neuroblast migration in vitro and supports survival of spiral ganglion neurons in vivo. <i>Experimental Neurology</i> , 2012, 233, 172-181.	2.0	52
16	Transcriptome analysis reveals transmembrane targets on transplantable midbrain dopamine progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1946-E1955.	3.3	52
17	Glycogen Synthase Kinase 3 $\beta$ and Activin/Nodal Inhibition in Human Embryonic Stem Cells Induces a Pre-Neuroepithelial State That Is Required for Specification to a Floor Plate Cell Lineage. <i>Stem Cells</i> , 2012, 30, 2400-2411.	1.4	51
18	Neurogenin2 identifies a transplantable dopamine neuron precursor in the developing ventral mesencephalon. <i>Experimental Neurology</i> , 2006, 198, 183-198.	2.0	44

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19	Trophic factors differentiate dopamine neurons vulnerable to Parkinson's disease. <i>Neurobiology of Aging</i> , 2013, 34, 873-886.	1.5	44
20	Neurons derived from human embryonic stem cells extend long-distance axonal projections through growth along host white matter tracts after intra-cerebral transplantation. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 11.	1.8	41
21	Characterization of Meteorin <sup>®</sup> An Evolutionary Conserved Neurotrophic Factor. <i>Journal of Molecular Neuroscience</i> , 2009, 39, 104-116.	1.1	38
22	Dynamics of transgene expression in a neural stem cell line transduced with lentiviral vectors incorporating the cHS4 insulator. <i>Experimental Cell Research</i> , 2004, 298, 611-623.	1.2	36
23	Functional properties and synaptic integration of genetically labelled dopaminergic neurons in intrastriatal grafts. <i>European Journal of Neuroscience</i> , 2005, 21, 2793-2799.	1.2	35
24	Cell intrinsic and extrinsic factors contribute to enhance neural circuit reconstruction following transplantation in Parkinsonian mice. <i>Journal of Physiology</i> , 2013, 591, 77-91.	1.3	33
25	A PITX3 -EGFP Reporter Line Reveals Connectivity of Dopamine and Non-dopamine Neuronal Subtypes in Grafts Generated from Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2017, 9, 868-882.	2.3	32
26	Modulating Wnt signaling to improve cell replacement therapy for Parkinson's disease. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 54-63.	1.5	31
27	Shear Containment of BDNF within Molecular Hydrogels Promotes Human Stem Cell Engraftment and Postinfarction Remodeling in Stroke. <i>Advanced Biology</i> , 2018, 2, 1800113.	3.0	28
28	Functional Characterization of Friedreich Ataxia iPS-Derived Neuronal Progenitors and Their Integration in the Adult Brain. <i>PLoS ONE</i> , 2014, 9, e101718.	1.1	27
29	Survival, differentiation, and connectivity of ventral mesencephalic dopamine neurons following transplantation. <i>Progress in Brain Research</i> , 2012, 200, 61-95.	0.9	25
30	Gli1 Is an Inducing Factor in Generating Floor Plate Progenitor Cells from Human Embryonic Stem Cells. <i>Stem Cells</i> , 2010, 28, 1805-1815.	1.4	24
31	Non-dopaminergic neurons in ventral mesencephalic transplants make widespread axonal connections in the host brain. <i>Experimental Neurology</i> , 2008, 213, 220-228.	2.0	23
32	Chondroitinase improves midbrain pathway reconstruction by transplanted dopamine progenitors in Parkinsonian mice. <i>Molecular and Cellular Neurosciences</i> , 2015, 69, 22-29.	1.0	23
33	Isolation of LMX1a Ventral Midbrain Progenitors Improves the Safety and Predictability of Human Pluripotent Stem Cell-Derived Neural Transplants in Parkinsonian Disease. <i>Journal of Neuroscience</i> , 2019, 39, 9521-9531.	1.7	23
34	A combined cell and gene therapy approach for homotopic reconstruction of midbrain dopamine pathways using human pluripotent stem cells. <i>Cell Stem Cell</i> , 2022, 29, 434-448.e5.	5.2	23
35	Long-Distance Axonal Growth and Protracted Functional Maturation of Neurons Derived from Human Induced Pluripotent Stem Cells After Intracerebral Transplantation. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1547-1556.	1.6	21
36	Human stem cells harboring a suicide gene improve the safety and standardisation of neural transplants in Parkinsonian rats. <i>Nature Communications</i> , 2021, 12, 3275.	5.8	21

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37	Transplantation of Fetal Midbrain Dopamine Progenitors into a Rodent Model of Parkinson's Disease. <i>Methods in Molecular Biology</i> , 2013, 1059, 169-180.	0.4	21
38	Lentiviral delivery of Meteorin protects striatal neurons against excitotoxicity and reverses motor deficits in the quinolinic acid rat model. <i>Neurobiology of Disease</i> , 2011, 41, 160-168.	2.1	20
39	Modelling the dopamine and noradrenergic cell loss that occurs in Parkinson's disease and the impact on hippocampal neurogenesis. <i>Hippocampus</i> , 2018, 28, 327-337.	0.9	20
40	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. <i>Journal of Neuroscience</i> , 2019, 39, 6656-6667.	1.7	20
41	An Optimized Protocol for the Generation of Midbrain Dopamine Neurons under Defined Conditions. <i>STAR Protocols</i> , 2020, 1, 100065.	0.5	18
42	Differential Dopamine Receptor Occupancy Underlies L-DOPA-Induced Dyskinesia in a Rat Model of Parkinson's Disease. <i>PLoS ONE</i> , 2014, 9, e90759.	1.1	16
43	Tissue Programmed Hydrogels Functionalized with GDNF Improve Human Neural Grafts in Parkinson's Disease. <i>Advanced Functional Materials</i> , 2021, 31, 2105301.	7.8	16
44	Gene marking of human neural stem/precursor cells using green fluorescent proteins. <i>Journal of Gene Medicine</i> , 2005, 7, 18-29.	1.4	14
45	Meningeal cells influence midbrain development and the engraftment of dopamine progenitors in Parkinsonian mice. <i>Experimental Neurology</i> , 2015, 267, 30-41.	2.0	12
46	FGF-MAPK signaling regulates human deep-layer corticogenesis. <i>Stem Cell Reports</i> , 2021, 16, 1262-1275.	2.3	12
47	Generation of striatal projection neurons extends into the neonatal period in the rat brain. <i>Journal of Physiology</i> , 2013, 591, 67-76.	1.3	7
48	Over-Expression of Meteorin Drives Gliogenesis Following Striatal Injury. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 177.	1.8	7
49	Combined immunohistochemical and retrograde tracing reveals little evidence of innervation of the rat dentate gyrus by midbrain dopamine neurons. <i>Frontiers in Biology</i> , 2016, 11, 246-255.	0.7	7
50	Specification of murine ground state pluripotent stem cells to regional neuronal populations. <i>Scientific Reports</i> , 2017, 7, 16001.	1.6	7
51	Transcriptional Profiling of Xenogeneic Transplants: Examining Human Pluripotent Stem Cell-Derived Grafts in the Rodent Brain. <i>Stem Cell Reports</i> , 2019, 13, 877-890.	2.3	7
52	Unprecedented Potential for Neural Drug Discovery Based on Self-Organizing hiPSC Platforms. <i>Molecules</i> , 2020, 25, 1150.	1.7	7
53	Long-Term Motor Deficit and Diffuse Cortical Atrophy Following Focal Cortical Ischemia in Athymic Rats. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 552.	1.8	6
54	Hemispheric cortical atrophy and chronic microglial activation following mild focal ischemic stroke in adult male rats. <i>Journal of Neuroscience Research</i> , 2021, 99, 3222-3237.	1.3	6

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55	Creation of GMP-Compliant iPSCs From Banked Umbilical Cord Blood. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 835321.	1.8	6
56	In vivo gene delivery to proliferating cells in the striatum generated in response to a 6-hydroxydopamine lesion of the nigro-striatal dopamine pathway. <i>Neurobiology of Disease</i> , 2008, 30, 343-352.	2.1	5
57	Transgenic reporter mice as tools for studies of transplantability and connectivity of dopamine neuron precursors in fetal tissue grafts. <i>Progress in Brain Research</i> , 2009, 175, 53-79.	0.9	5
58	Longitudinal hippocampal volumetric changes in mice following brain infarction. <i>Scientific Reports</i> , 2021, 11, 10269.	1.6	5
59	In Vivo Survival and Differentiation of Friedreich Ataxia iPSC-Derived Sensory Neurons Transplanted in the Adult Dorsal Root Ganglia. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1157-1169.	1.6	4
60	Understanding the Influence of Target Acquisition on Survival, Integration, and Phenotypic Maturation of Dopamine Neurons within Stem Cell-Derived Neural Grafts in a Parkinson's Disease Model. <i>Journal of Neuroscience</i> , 2022, 42, 4995-5006.	1.7	4
61	Local Injection of Endothelin-1 in the Early Neonatal Rat Brain Models Ischemic Damage Associated with Motor Impairment and Diffuse Loss in Brain Volume. <i>Neuroscience</i> , 2018, 393, 110-122.	1.1	3
62	Ischemic Injury Does Not Stimulate Striatal Neuron Replacement Even during Periods of Active Striatal Neurogenesis. <i>IScience</i> , 2020, 23, 101175.	1.9	3
63	Focal Ischemic Injury to the Early Neonatal Rat Brain Models Cognitive and Motor Deficits with Associated Histopathological Outcomes Relevant to Human Neonatal Brain Injury. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4740.	1.8	2
64	Histological characterization and quantification of newborn cells in the adult rodent brain. <i>STAR Protocols</i> , 2021, 2, 100614.	0.5	2
65	Novel pluripotent stem cell lines for enriched grafting in Parkinson's disease. <i>Neural Regeneration Research</i> , 2020, 15, 255.	1.6	2
66	Developing stem cell-based therapies for neural repair. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 198.	1.8	1
67	Capturing longitudinal impacts on cognition following stroke in rodent models using touchscreen testing. <i>Alzheimer's and Dementia</i> , 2020, 16, e044156.	0.4	0