

Thomas M Durcan

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

7,064
citations

331642

21
h-index

189881

50
g-index

67
all docs

67
docs citations

67
times ranked

17114
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfabricated disk technology: Rapid scale up in midbrain organoid generation. <i>Methods</i> , 2022, 203, 465-477.	3.8	15
2	A streamlined CRISPR workflow to introduce mutations and generate isogenic iPSCs for modeling amyotrophic lateral sclerosis. <i>Methods</i> , 2022, 203, 297-310.	3.8	22
3	Co-registration of Imaging Modalities (MRI, CT and PET) to Perform Frameless Stereotaxic Robotic Injections in the Common Marmoset. <i>Neuroscience</i> , 2022, 480, 143-154.	2.3	5
4	Selective localization of Mfn2 near PINK1 enables its preferential ubiquitination by Parkin on mitochondria. <i>Open Biology</i> , 2022, 12, 210255.	3.6	10
5	Rapid Generation of Ventral Spinal Cord-like Astrocytes from Human iPSCs for Modeling Non-Cell Autonomous Mechanisms of Lower Motor Neuron Disease. <i>Cells</i> , 2022, 11, 399.	4.1	7
6	FOXG1 dose tunes cell proliferation dynamics in human forebrain progenitor cells. <i>Stem Cell Reports</i> , 2022, 17, 475-488.	4.8	4
7	A light-inducible protein clustering system for in vivo analysis of α -synuclein aggregation in Parkinson disease. <i>PLoS Biology</i> , 2022, 20, e3001578.	5.6	12
8	An approach to measuring protein turnover in human induced pluripotent stem cell organoids by mass spectrometry. <i>Methods</i> , 2022, 203, 17-27.	3.8	5
9	Hydrogel Mechanics Influence the Growth and Development of Embedded Brain Organoids. <i>ACS Applied Bio Materials</i> , 2022, 5, 214-224.	4.6	23
10	Generation of homozygous PRKN, PINK1 and double PINK1/PRKN knockout cell lines from healthy induced pluripotent stem cells using CRISPR/Cas9 editing. <i>Stem Cell Research</i> , 2022, 62, 102806.	0.7	6
11	Identification of amyloid beta in small extracellular vesicles via Raman spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 4119-4132.	4.6	13
12	Development of an α -synuclein knockdown peptide and evaluation of its efficacy in Parkinson's disease models. <i>Communications Biology</i> , 2021, 4, 232.	4.4	18
13	Pharmacological Inhibition of Brain EGFR Activation By a BBB-penetrating Inhibitor, AZD3759, Attenuates α -synuclein Pathology in a Mouse Model of α -Synuclein Propagation. <i>Neurotherapeutics</i> , 2021, 18, 979-997.	4.4	13
14	A Multistep Workflow to Evaluate Newly Generated iPSCs and Their Ability to Generate Different Cell Types. <i>Methods and Protocols</i> , 2021, 4, 50.	2.0	40
15	Midbrain organoids with an SNCA gene triplication model key features of synucleinopathy. <i>Brain Communications</i> , 2021, 3, fcab223.	3.3	37
16	Beneficial effects of cysteamine in Thy1- α -Syn mice and induced pluripotent stem cells with a SNCA gene triplication. <i>Neurobiology of Disease</i> , 2020, 145, 105042.	4.4	6
17	Applying hiPSCs and Biomaterials Towards an Understanding and Treatment of Traumatic Brain Injury. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 594304.	3.7	10
18	The Neglected Genes of ALS: Cytoskeletal Dynamics Impact Synaptic Degeneration in ALS. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 594975.	3.7	45

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19	Characterization of human iPSC-derived astrocytes with potential for disease modeling and drug discovery. <i>Neuroscience Letters</i> , 2020, 731, 135028.	2.1	40
20	Defining the Neural Kinome: Strategies and Opportunities for Small Molecule Drug Discovery to Target Neurodegenerative Diseases. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1871-1886.	3.5	27
21	Stimulation of L-type calcium channels increases tyrosine hydroxylase and dopamine in ventral midbrain cells induced from somatic cells. <i>Stem Cells Translational Medicine</i> , 2020, 9, 697-712.	3.3	17
22	TNF receptor-associated factor 6 interacts with ALS-linked misfolded superoxide dismutase 1 and promotes aggregation. <i>Journal of Biological Chemistry</i> , 2020, 295, 3808-3825.	3.4	16
23	Quantitative expansion microscopy for the characterization of the spectrin periodic skeleton of axons using fluorescence microscopy. <i>Scientific Reports</i> , 2020, 10, 2917.	3.3	15
24	The Quebec Parkinson Network: A Researcher-Patient Matching Platform and Multimodal Biorepository. <i>Journal of Parkinson's Disease</i> , 2020, 10, 301-313.	2.8	35
25	Characterization of Human iPSC-derived Spinal Motor Neurons by Single-cell RNA Sequencing. <i>Neuroscience</i> , 2020, 450, 57-70.	2.3	21
26	Patient-Derived Stem Cells, Another in vitro Model, or the Missing Link Toward Novel Therapies for Autism Spectrum Disorders?. <i>Frontiers in Pediatrics</i> , 2019, 7, 225.	1.9	10
27	One Step Into the Future: New iPSC Tools to Advance Research in Parkinson's Disease and Neurological Disorders. <i>Journal of Parkinson's Disease</i> , 2019, 9, 265-281.	2.8	19
28	Bcl-2-associated athanogene 5 (BAG5) regulates Parkin-dependent mitophagy and cell death. <i>Cell Death and Disease</i> , 2019, 10, 907.	6.3	32
29	Implementation of an antibody characterization procedure and application to the major ALS/FTD disease gene C9ORF72. <i>ELife</i> , 2019, 8, .	6.0	79
30	Disruption of GRIN2B Impairs Differentiation in Human Neurons. <i>Stem Cell Reports</i> , 2018, 11, 183-196.	4.8	53
31	Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy. <i>ELife</i> , 2018, 7, .	6.0	261
32	Open Science Meets Stem Cells: A New Drug Discovery Approach for Neurodegenerative Disorders. <i>Frontiers in Neuroscience</i> , 2018, 12, 47.	2.8	20
33	The Neuroprotective Role of Protein Quality Control in Halting the Development of Alpha-Synuclein Pathology. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 311.	2.9	17
34	Defending the mitochondria: The pathways of mitophagy and mitochondrial-derived vesicles. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 79, 427-436.	2.8	98
35	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
36	USP8 and PARK2/parkin-mediated mitophagy. <i>Autophagy</i> , 2015, 11, 428-429.	9.1	35

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37	The E3 Ubiquitin Ligase Parkin Is Recruited to the 26 S Proteasome via the Proteasomal Ubiquitin Receptor Rpn13. <i>Journal of Biological Chemistry</i> , 2015, 290, 7492-7505.	3.4	32
38	The three "P"s of mitophagy: PARKIN, PINK1, and post-translational modifications. <i>Genes and Development</i> , 2015, 29, 989-999.	5.9	324
39	<scp>USP</scp> 8 regulates mitophagy by removing <scp>K</scp> 6-linked ubiquitin conjugates from parkin. <i>EMBO Journal</i> , 2014, 33, 2473-2491.	7.8	298
40	The Cell and Molecular Biology of Neurodegenerative Diseases: An Overview. <i>Frontiers in Neurology</i> , 2013, 4, 194.	2.4	12
41	Ataxin-3 and Its E3 Partners: Implications for Machado-Joseph Disease. <i>Frontiers in Neurology</i> , 2013, 4, 46.	2.4	28
42	Ataxin-3 Deubiquitination Is Coupled to Parkin Ubiquitination via E2 Ubiquitin-conjugating Enzyme. <i>Journal of Biological Chemistry</i> , 2012, 287, 531-541.	3.4	64
43	Most genome-wide significant susceptibility loci for schizophrenia and bipolar disorder reported to date cross-traditional diagnostic boundaries. <i>Human Molecular Genetics</i> , 2011, 20, 387-391.	2.9	233
44	The Machado-Joseph disease-associated mutant form of ataxin-3 regulates parkin ubiquitination and stability. <i>Human Molecular Genetics</i> , 2011, 20, 141-154.	2.9	129
45	Mutant ataxin-3 promotes the autophagic degradation of parkin. <i>Autophagy</i> , 2011, 7, 233-234.	9.1	35
46	Centrosome biogenesis continues in the absence of microtubules during prolonged S-phase arrest. <i>Journal of Cellular Physiology</i> , 2010, 225, 454-465.	4.1	11
47	Isolation of human proteasomes and putative proteasome-interacting proteins using a novel affinity chromatography method. <i>Experimental Cell Research</i> , 2009, 315, 176-189.	2.6	27
48	Centrosome duplication proceeds during mimosine-induced G ₁ cell cycle arrest. <i>Journal of Cellular Physiology</i> , 2008, 215, 182-191.	4.1	17
49	Tektin 2 is required for central spindle microtubule organization and the completion of cytokinesis. <i>Journal of Cell Biology</i> , 2008, 181, 595-603.	5.2	25
50	Digital Image Files in Light Microscopy. <i>Methods in Cell Biology</i> , 2007, 81, 315-333.	1.1	4
51	Generation of human midbrain organoids from induced pluripotent stem cells. <i>MNI Open Research</i> , 0, 3, 1.	1.0	7
52	Generation of human midbrain organoids from induced pluripotent stem cells. <i>MNI Open Research</i> , 0, 3, 1.	1.0	10