Edward A Burton

List of Publications by Year
in descending order

63 papers	3,381 citations	159585 30 h-index	149698 56 g-index
70 all docs	70 docs citations	70 times ranked	4768 citing authors

#	Article	IF	Citations
1	Î±-Synuclein binds to TOM20 and inhibits mitochondrial protein import in Parkinsonâ€™s disease. Science Translational Medicine, 2016, 8, 342ra78.	12.4	432
2	LRRK2 activation in idiopathic Parkinsonâ€™s disease. Science Translational Medicine, 2018, 10, .	12.4	363
3	Bioenergetics of neurons inhibit the translocation response of Parkin following rapid mitochondrial depolarization. Human Molecular Genetics, 2011, 20, 927-940.	2.9	200
4	shRNA targeting Î±-synuclein prevents neurodegeneration in a Parkinsonâ€™s disease model. Journal of Clinical Investigation, 2015, 125, 2721-2735.	8.2	143
5	A- and B-utrophin Have Different Expression Patterns and Are Differentially Up-regulated in mdx Muscle. Journal of Biological Chemistry, 2002, 277, 45285-45290.	3.4	114
6	Glucocerebrosidase 1 deficient<i>Danio rerio</i>mirror key pathological aspects of human Gaucher disease and provide evidence of early microglial activation preceding alpha-synuclein-independent neuronal cell death. Human Molecular Genetics, 2015, 24, 6640-6652.	2.9	108
7	Genetic zebrafish models of neurodegenerative diseases. Neurobiology of Disease, 2010, 40, 58-65.	4.4	107
8	Generation of a transgenic zebrafish model of Tauopathy using a novel promoter element derived from the zebrafish eno2 gene. Nucleic Acids Research, 2007, 35, 6501-6516.	14.5	104
9	Muscle and Neural Isoforms of Agrin Increase Utrophin Expression in Cultured Myotubes via a Transcriptional Regulatory Mechanism. Journal of Biological Chemistry, 1998, 273, 736-743.	3.4	85
10	Gene Delivery Using Herpes Simplex Virus Vectors. DNA and Cell Biology, 2002, 21, 915-936.	1.9	85
11	Transgenic zebrafish models of neurodegenerative diseases. Brain Structure and Function, 2010, 214, 285-302.	2.3	85
12	Astrocyte-specific DJ-1 overexpression protects against rotenone-induced neurotoxicity in a rat model of Parkinson's disease. Neurobiology of Disease, 2018, 115, 101-114.	4.4	83
13	Claudin k is specifically expressed in cells that form myelin during development of the nervous system and regeneration of the optic nerve in adult zebrafish. Glia, 2012, 60, 253-270.	4.9	78
14	Hypokinesia and Reduced Dopamine Levels in Zebrafish Lacking Î²- and Î³1-Synucleins. Journal of Biological Chemistry, 2012, 287, 2971-2983.	3.4	71
15	Single-Cell Redox Imaging Demonstrates a Distinctive Response of Dopaminergic Neurons to Oxidative Insults. Antioxidants and Redox Signaling, 2011, 15, 855-871.	5.4	70
16	Multiple Applications For Replication-Defective Herpes Simplex Virus Vectors. Stem Cells, 2001, 19, 358-377.	3.2	69
17	Research on the Premotor Symptoms of Parkinsonâ€™s Disease: Clinical and Etiological Implications. Environmental Health Perspectives, 2013, 121, 1245-1252.	6.0	68
18	Zebrafish DJ-1 is evolutionarily conserved and expressed in dopaminergic neurons. Brain Research, 2006, 1113, 33-44.	2.2	64

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19	Muscular Dystrophyâ€"Reason for Optimism?. Cell, 2002, 108, 5-8.	28.9	61
20	Frontotemporal degeneration, the next therapeutic frontier: Molecules and animal models for frontotemporal degeneration drug development. Alzheimer's and Dementia, 2013, 9, 176-188.	0.8	58
21	Pseudotype-dependent lentiviral transduction of astrocytes or neurons in the rat substantia nigra. Experimental Neurology, 2011, 228, 41-52.	4.1	56
22	Evaluation of spontaneous propulsive movement as a screening tool to detect rescue of Parkinsonism phenotypes in zebrafish models. Neurobiology of Disease, 2011, 44, 9-18.	4.4	55
23	The advantages of frontotemporal degeneration drug development (partÂ2Âof frontotemporal) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	48
24	Quantification of larval zebrafish motor function in multiwell plates using open-source MATLAB applications. Nature Protocols, 2014, 9, 1533-1548.	12.0	47
25	Replication-defective genomic herpes simplex vectors: design and production. Current Opinion in Biotechnology, 2002, 13, 424-428.	6.6	45
26	Automated measurement of zebrafish larval movement. Journal of Physiology, 2011, 589, 3703-3708.	2.9	45
27	Live imaging of mitochondrial dynamics in CNS dopaminergic neurons in vivo demonstrates early reversal of mitochondrial transport following MPP+ exposure. Neurobiology of Disease, 2016, 95, 238-249.	4.4	44
28	Soluble V Domain of Nectin-1/HveC Enables Entry of Herpes Simplex Virus Type 1 (HSV-1) into HSV-Resistant Cells by Binding to Viral Glycoprotein D. Journal of Virology, 2006, 80, 138-148.	3.4	43
29	Regeneration of the zebrafish retinal pigment epithelium after widespread genetic ablation. PLoS Genetics, 2019, 15, e1007939.	3.5	43
30	Long-term RNAi knockdown of Î±-synuclein in the adult rat substantia nigra without neurodegeneration. Neurobiology of Disease, 2019, 125, 146-153.	4.4	38
31	Astroglial DJ-1 over-expression up-regulates proteins involved in redox regulation and is neuroprotective in vivo. Redox Biology, 2018, 16, 237-247.	9.0	31
32	An open-source method to analyze optokinetic reflex responses in larval zebrafish. Journal of Neuroscience Methods, 2018, 293, 329-337.	2.5	29
33	Acquired dysregulation of dopamine homeostasis reproduces features of Parkinsonâ€™s disease. Npj Parkinson's Disease, 2020, 6, 34.	5.3	29
34	Î±-Synuclein amplifies cytoplasmic peroxide flux and oxidative stress provoked by mitochondrial inhibitors in CNS dopaminergic neurons in vivo. Redox Biology, 2020, 37, 101695.	9.0	26
35	Cis-acting elements responsible for dopaminergic neuron-specific expression of zebrafish slc6a3 (dopamine transporter) in vivo are located remote from the transcriptional start site. Neuroscience, 2009, 164, 1138-1151.	2.3	25
36	Spectral properties of the zebrafish visual motor response. Neuroscience Letters, 2017, 646, 62-67.	2.1	25

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37	Zebrafish models of Tauopathy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 353-363.	3.8	24
38	Major isoform of zebrafish P0 is a 23.5 kDa myelin glycoprotein expressed in selected white matter tracts of the central nervous system. Journal of Comparative Neurology, 2011, 519, 1580-1596.	1.6	24
39	Targeting gene expression using HSV vectors. Advanced Drug Delivery Reviews, 2001, 53, 155-170.	13.7	23
40	Seizures are a druggable mechanistic link between TBI and subsequent tauopathy. ELife, 2021, 10, .	6.0	22
41	The Stable 2.0-Kilobase Intron of the Herpes Simplex Virus Type 1 Latency-Associated Transcript Does Not Function as an Antisense Repressor of ICP0 in Nonneuronal Cells. Journal of Virology, 2003, 77, 3516-3530.	3.4	21
42	Chemoptogenetic ablation of neuronal mitochondria in vivo with spatiotemporal precision and controllable severity. ELife, 2020, 9, .	6.0	20
43	Ablation of the pro-inflammatory master regulator miR-155 does not mitigate neuroinflammation or neurodegeneration in a vertebrate model of Gaucher's disease. Neurobiology of Disease, 2019, 127, 563-569.	4.4	19
44	Replication-defective genomic HSV gene therapy vectors: design, production and CNS applications. Current Opinion in Molecular Therapeutics, 2005, 7, 326-36.	2.8	19
45	NADPH oxidase 2 activity in Parkinson's disease. Neurobiology of Disease, 2022, 170, 105754.	4.4	18
46	Expression of a 12-kb promoter element derived from the zebrafish enolase-2 gene in the zebrafish visual system. Neuroscience Letters, 2009, 449, 252-257.	2.1	16
47	Survival of transplanted neural progenitor cells enhanced by brain irradiation. Journal of Neurosurgery, 2007, 107, 383-391.	1.6	15
48	Different Mechanisms Regulate Expression of Zebrafish Myelin Protein Zero (P0) in Myelinating Oligodendrocytes and Its Induction following Axonal Injury. Journal of Biological Chemistry, 2014, 289, 24114-24128.	3.4	14
49	Modulation of the zebrafish optokinetic reflex by pharmacologic agents targeting GABAA receptors. Neuroscience Letters, 2018, 671, 33-37.	2.1	11
50	Multi-modal combination gene therapy for malignant glioma using replication-defective HSV vectors. Drug Discovery Today, 2001, 6, 347-356.	6.4	10
51	Quantitative Responses of Adult Zebrafish to Changes in Ambient Illumination. Zebrafish, 2017, 14, 508-516.	1.1	8
52	The Zebrafish Homologue of the Human DYT1 Dystonia Gene Is Widely Expressed in CNS Neurons but Non-Essential for Early Motor System Development. PLoS ONE, 2012, 7, e45175.	2.5	6
53	The Developmental Toxicity of Complex Silica-Embedded Nickel Nanoparticles Is Determined by Their Physicochemical Properties. PLoS ONE, 2016, 11, e0152010.	2.5	6
54	Use of the Herpes Simplex Viral Genome to Construct Gene Therapy Vectors. , 2003, 76, 01-32.		5

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55	Mechanism of Pacemaker Activity in Zebrafish DC2/4 Dopaminergic Neurons. Journal of Neuroscience, 2021, 41, 4141-4157.	3.6	4
56	Of fish, flies, worms and men: Powerful approaches to neuropsychiatric disease using genetic models. Neurobiology of Disease, 2010, 40, 1-3.	4.4	2
57	Zebrafish. , 2015, , 117-138.		2
58	Virus-based vectors for gene expression in mammalian cells: Herpes simplex virus. New Comprehensive Biochemistry, 2003, 38, 27-54.	0.1	1
59	Sinusoidal analysis reveals a non-linear and dopamine-dependent relationship between ambient illumination and motor activity in larval zebrafish. Neuroscience Letters, 2021, 761, 136121.	2.1	1
60	Redirecting the Tropism of HSV-1 for Gene Therapy Applications. , 2003, , 377-403.		0
61	Quantitative Tools for Phenotypeâ€Based Drug Discovery in Zebrafish Models of Neurological Disease. FASEB Journal, 2021, 35, .	0.5	0
62	Gene Therapy Approaches in Neurology. , 2007, , 101-123.		0
63	Herpes Simplex Virus Vectors for Gene Therapy of Lysosomal Storage Disorders. , 2007, , 111-131.		0