Andrey Y Abramov

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/6054878/andrey-y-abramov-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178	13,883	63	115
papers	citations	h-index	g-index
197	16,656 ext. citations	7.2	6.91
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
178	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response <i>IScience</i> , 2022 , 25, 103827	6.1	4
177	Interaction of Mitochondrial Calcium and ROS in Neurodegeneration Cells, 2022, 11,	7.9	8
176	Hyperammonemia induces mitochondrial dysfunction and neuronal cell death. JHEP Reports, 2022, 1005	5 10 .3	О
175	Inorganic Polyphosphate and F0F1-ATP Synthase of Mammalian Mitochondria. <i>Progress in Molecular and Subcellular Biology</i> , 2022 , 1-13	3	
174	Age-related changes in the energy of human mesenchymal stem cells. <i>Journal of Cellular Physiology</i> , 2021 ,	7	3
173	Lactate and Pyruvate Activate Autophagy and Mitophagy that Protect Cells in Toxic Model of Parkinson Disease. <i>Molecular Neurobiology</i> , 2021 , 1	6.2	2
172	Assessment of ROS Production in the Mitochondria of Live Cells. <i>Methods in Molecular Biology</i> , 2021 , 2202, 33-42	1.4	3
171	Dopamine controls neuronal spontaneous calcium oscillations via astrocytic signal. <i>Cell Calcium</i> , 2021 , 94, 102359	4	1
170	Mitochondrial ROS control neuronal excitability and cell fate in frontotemporal dementia. <i>Alzheimerls and Dementia</i> , 2021 ,	1.2	7
169	An integrated genomic approach to dissect the genetic landscape regulating the cell-to-cell transfer of Bynuclein. <i>Cell Reports</i> , 2021 , 35, 109189	10.6	3
168	Genetically engineered MAPT 10+16 mutation causes pathophysiological excitability of human iPSC-derived neurons related to 4R tau-induced dementia. <i>Cell Death and Disease</i> , 2021 , 12, 716	9.8	1
167	Insoluble tau aggregates induce neuronal death through modification of membrane ion conductance, activation of voltage-gated calcium channels and NADPH oxidase. <i>FEBS Journal</i> , 2021 , 288, 127-141	5.7	23
166	Mitochondria and lipid peroxidation in the mechanism of neurodegeneration: Finding ways for prevention. <i>Medicinal Research Reviews</i> , 2021 , 41, 770-784	14.4	44
165	Variability of mitochondrial energy balance across brain regions. <i>Journal of Neurochemistry</i> , 2021 , 157, 1234-1243	6	5
164	Phospholipase iPLADaverts ferroptosis by eliminating a redox lipid death signal. <i>Nature Chemical Biology</i> , 2021 , 17, 465-476	11.7	31
163	Singlet oxygen stimulates mitochondrial bioenergetics in brain cells. <i>Free Radical Biology and Medicine</i> , 2021 , 163, 306-313	7.8	6
162	Activation of RAGE leads to the release of glutamate from astrocytes and stimulates calcium signal in neurons. <i>Journal of Cellular Physiology</i> , 2021 , 236, 6496-6506	7	2

(2019-2021)

161	Proteomic Analysis of Cardiac Adaptation to Exercise by High Resolution Mass Spectrometry. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 723858	5.6	3	
160	Metabolically induced intracellular pH changes activate mitophagy, autophagy, and cell protection in familial forms of Parkinsonß disease. <i>FEBS Journal</i> , 2021 ,	5.7	1	
159	Brain region specificity in reactive oxygen species production and maintenance of redox balance. <i>Free Radical Biology and Medicine</i> , 2021 , 174, 195-201	7.8	3	
158	Assessment of Mitochondrial Membrane Potential and NADH Redox State in Acute Brain Slices. <i>Methods in Molecular Biology</i> , 2021 , 2276, 193-202	1.4	1	
157	Elevated 4R-tau in astrocytes from asymptomatic carriers of the MAPT 10+16 intronic mutation <i>Journal of Cellular and Molecular Medicine</i> , 2021 ,	5.6	1	
156	Annexin A5 prevents amyloid-Dinduced toxicity in choroid plexus: implication for Alzheimer disease. <i>Scientific Reports</i> , 2020 , 10, 9391	4.9	4	
155	Interaction of Oxidative Stress and Misfolded Proteins in the Mechanism of Neurodegeneration. <i>Life</i> , 2020 , 10,	3	23	
154	Visualization of mitochondrial membrane potential in mammalian cells. <i>Methods in Cell Biology</i> , 2020 , 155, 221-245	1.8	8	
153	Expression of mutant exon 1 huntingtin fragments in human neural stem cells and neurons causes inclusion formation and mitochondrial dysfunction. <i>FASEB Journal</i> , 2020 , 34, 8139-8154	0.9	12	
152	Alpha synuclein aggregation drives ferroptosis: an interplay of iron, calcium and lipid peroxidation. <i>Cell Death and Differentiation</i> , 2020 , 27, 2781-2796	12.7	46	
151	Inorganic polyphosphate is produced and hydrolyzed in F0F1-ATP synthase of mammalian mitochondria. <i>Biochemical Journal</i> , 2020 , 477, 1515-1524	3.8	20	
150	Lipid peroxidation is involved in calcium dependent upregulation of mitochondrial metabolism in skeletal muscle. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129487	4	11	
149	Tau inhibits mitochondrial calcium efflux and makes neurons vulnerable to calcium-induced cell death. <i>Cell Calcium</i> , 2020 , 86, 102150	4	36	
148	Adrenaline induces calcium signal in astrocytes and vasoconstriction via activation of monoamine oxidase. <i>Free Radical Biology and Medicine</i> , 2020 , 159, 15-22	7.8	10	
147	Mitochondrial Calcium Deregulation in the Mechanism of Beta-Amyloid and Tau Pathology. <i>Cells</i> , 2020 , 9,	7.9	24	
146	Maturation and phenotype of pathophysiological neuronal excitability of human cells in tau-related dementia. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	9	
145	Inorganic Polyphosphate Regulates AMPA and NMDA Receptors and Protects Against Glutamate Excitotoxicity via Activation of P2Y Receptors. <i>Journal of Neuroscience</i> , 2019 , 39, 6038-6048	6.6	17	
144	Role of DJ-1 in the mechanism of pathogenesis of Parkinsonß disease. <i>Journal of Bioenergetics and Biomembranes</i> , 2019 , 51, 175-188	3.7	85	

143	LRRK2 deficiency induced mitochondrial Ca efflux inhibition can be rescued by Na/Ca/Li exchanger upregulation. <i>Cell Death and Disease</i> , 2019 , 10, 265	9.8	28
142	Pharmacological Sequestration of Mitochondrial Calcium Uptake Protects Neurons Against Glutamate Excitotoxicity. <i>Molecular Neurobiology</i> , 2019 , 56, 2244-2255	6.2	28
141	Combination antioxidant therapy prevents epileptogenesis and modifies chronic epilepsy. <i>Redox Biology</i> , 2019 , 26, 101278	11.3	32
140	Mitochondrial dysfunction and energy deprivation in the mechanism of neurodegeneration. <i>Biyokimya Dergisi</i> , 2019 , 44, 723-729	0.7	8
139	Cellular mechanisms of complex I-associated pathology. <i>Biochemical Society Transactions</i> , 2019 , 47, 19	63 ₅ :1⁄969	9 16
138	Mitochondrial Function Is Compromised in Cortical Bone Osteocytes of Long-Lived Growth Hormone Receptor Null Mice. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 106-122	6.3	21
137	Impaired Bioenergetics in Mutant Mitochondrial DNA Determines Cell Fate During Seizure-Like Activity. <i>Molecular Neurobiology</i> , 2019 , 56, 321-334	6.2	5
136	Role of mitochondrial ROS in the brain: from physiology to neurodegeneration. <i>FEBS Letters</i> , 2018 , 592, 692-702	3.8	283
135	Measurement of Tau Filament Fragmentation Provides Insights into Prion-like Spreading. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 1276-1282	5.7	51
134	KEAP1 inhibition is neuroprotective and suppresses the development of epilepsy. <i>Brain</i> , 2018 , 141, 13	90 <u>1</u> 140	3 58
133	CORM-401 induces calcium signalling, NO increase and activation of pentose phosphate pathway in endothelial cells. <i>FEBS Journal</i> , 2018 , 285, 1346-1358	5.7	16
132	Mitochondrial dysfunction in Parkinsonian mesenchymal stem cells impairs differentiation. <i>Redox Biology</i> , 2018 , 14, 474-484	11.3	89
131	Photo-Induced Oxidative Stress Impairs Mitochondrial Metabolism in Neurons and Astrocytes. <i>Molecular Neurobiology</i> , 2018 , 55, 90-95	6.2	5
130	Reactive Oxygen Species Produced by a Photodynamic Effect Induced Calcium Signal in Neurons and Astrocytes. <i>Molecular Neurobiology</i> , 2018 , 55, 96-102	6.2	12
129	Mitochondrial calcium imbalance in Parkinson ß disease. <i>Neuroscience Letters</i> , 2018 , 663, 86-90	3.3	66
128	A single cell high content assay detects mitochondrial dysfunction in iPSC-derived neurons with mutations in SNCA. <i>Scientific Reports</i> , 2018 , 8, 9033	4.9	32
127	Bynuclein oligomers interact with ATP synthase and open the permeability transition pore in Parkinson® disease. <i>Nature Communications</i> , 2018 , 9, 2293	17.4	223
126	Verification of NADH content measurements by portable optical diagnostic system in living brain tissue 2018 .		1

125	Different faces of neurodegeneration. FEBS Journal, 2018, 285, 3544-3546	5.7	1
124	Synthetic Fragments of Receptor for Advanced Glycation End Products Bind Beta-Amyloid 1-40 and Protect Primary Brain Cells From Beta-Amyloid Toxicity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 681	5.1	8
123	Signal transduction in astrocytes: Localization and release of inorganic polyphosphate. <i>Glia</i> , 2018 , 66, 2126-2136	9	25
122	Hereditary sensory neuropathy type 1-associated deoxysphingolipids cause neurotoxicity, acute calcium handling abnormalities and mitochondrial dysfunction in vitro. <i>Neurobiology of Disease</i> , 2018 , 117, 1-14	7.5	23
121	Modulation of mitochondrial ion transport by inorganic polyphosphate - essential role in mitochondrial permeability transition pore. <i>Journal of Bioenergetics and Biomembranes</i> , 2017 , 49, 49-55	3.7	21
120	Pathogenic p62/SQSTM1 mutations impair energy metabolism through limitation of mitochondrial substrates. <i>Scientific Reports</i> , 2017 , 7, 1666	4.9	43
119	Targeting oxidative stress improves disease outcomes in a rat model of acquired epilepsy. <i>Brain</i> , 2017 , 140, 1885-1899	11.2	86
118	Progressive Motor Neuron Pathology and the Role of Astrocytes in a Human Stem Cell Model of VCP-Related ALS. <i>Cell Reports</i> , 2017 , 19, 1739-1749	10.6	91
117	Mitochondrial deficits and abnormal mitochondrial retrograde axonal transport play a role in the pathogenesis of mutant Hsp27-induced Charcot Marie Tooth Disease. <i>Human Molecular Genetics</i> , 2017 , 26, 3313-3326	5.6	31
116	Mutations in valosin-containing protein (VCP) decrease ADP/ATP translocation across the mitochondrial membrane and impair energy metabolism in human neurons. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8907-8917	5.4	18
115	Mitochondrial hyperpolarization in iPSC-derived neurons from patients of FTDP-17 with 10+16 MAPT mutation leads to oxidative stress and neurodegeneration. <i>Redox Biology</i> , 2017 , 12, 410-422	11.3	50
114	Clinical, pathological and functional characterization of riboflavin-responsive neuropathy. <i>Brain</i> , 2017 , 140, 2820-2837	11.2	40
113	iPSC-derived neuronal models of PANK2-associated neurodegeneration reveal mitochondrial dysfunction contributing to early disease. <i>PLoS ONE</i> , 2017 , 12, e0184104	3.7	28
112	Interaction of misfolded proteins and mitochondria in neurodegenerative disorders. <i>Biochemical Society Transactions</i> , 2017 , 45, 1025-1033	5.1	50
111	Alpha-synuclein and beta-amyloid - different targets, same players: calcium, free radicals and mitochondria in the mechanism of neurodegeneration. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 1110-1115	3.4	52
110	Deficiency of Parkinson® disease-related gene Fbxo7 is associated with impaired mitochondrial metabolism by PARP activation. <i>Cell Death and Differentiation</i> , 2017 , 24, 120-131	12.7	29
109	[P1🛮75]: ANNEXIN V PREVENTS DAMYLOID-INDUCED TOXITY IN CHOROID PLEXUS: IMPLICATIONS FOR ALZHEIMER® and ACUTE DISEASE 2017 , 13, P310-P310		
108	Neuroprotective coordination of cell mitophagy by the ATPase Inhibitory Factor 1. <i>Pharmacological Research</i> , 2016 , 103, 56-68	10.2	16

107	Reply: Glial mitochondropathy in infantile neuroaxonal dystrophy: pathophysiological and therapeutic implications. <i>Brain</i> , 2016 , 139, e68	11.2	
106	Deficiency of the zinc finger protein ZFP106 causes motor and sensory neurodegeneration. <i>Human Molecular Genetics</i> , 2016 , 25, 291-307	5.6	13
105	RMitochondrial energy imbalance and lipid peroxidation cause cell death in Friedreich ataxia Cell Death and Disease, 2016, 7, e2237	9.8	75
104	Functional role of mitochondrial reactive oxygen species in physiology. <i>Free Radical Biology and Medicine</i> , 2016 , 100, 81-85	7.8	130
103	Protein Misfolding and Aggregation: Implications for Mitochondrial Dysfunction and Neurodegeneration 2016 , 241-253		1
102	Nrf2 activation in the treatment of neurodegenerative diseases: a focus on its role in mitochondrial bioenergetics and function. <i>Biological Chemistry</i> , 2016 , 397, 383-400	4.5	89
101	Ca2+ is a key factor in Bynuclein-induced neurotoxicity. <i>Journal of Cell Science</i> , 2016 , 129, 1792-801	5.3	106
100	Deletions at 22q11.2 in idiopathic Parkinsonß disease: a combined analysis of genome-wide association data. <i>Lancet Neurology, The</i> , 2016 , 15, 585-96	24.1	59
99	Kinetic model of the aggregation of alpha-synuclein provides insights into prion-like spreading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1206-15	11.5	130
98	Intracellular pH Modulates Autophagy and Mitophagy. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8701-	85.4	60
97	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson® Disease. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 376-91	8.4	192
96	The Role of Reactive Oxygen Species in Epilepsy. <i>Reactive Oxygen Species (Apex, N C)</i> , 2016 , 1,	4.7	11
95	Ca2+ is a key factor in Bynuclein-induced neurotoxicity. <i>Development (Cambridge)</i> , 2016 , 143, e1.1-e1.1	6.6	3
94	B27 Abnormal bioenergetics in inclusion-containing mutant HTT exon 1 primary human neurons. Journal of Neurology, Neurosurgery and Psychiatry, 2016 , 87, A18.2-A19	5.5	
93	Role of Inorganic Polyphosphate in the Cells of the Mammalian Brain 2016 , 115-121		1
92	Melatonin prevents cytosolic calcium overload, mitochondrial damage and cell death due to toxically high doses of dexamethasone-induced oxidative stress in human neuroblastoma SH-SY5Y cells. <i>Neurochemistry International</i> , 2016 , 97, 34-41	4.4	50
91	Role of inorganic polyphosphate in mammalian cells: from signal transduction and mitochondrial metabolism to cell death. <i>Biochemical Society Transactions</i> , 2016 , 44, 40-5	5.1	40
90	Monomeric Alpha-Synuclein Exerts a Physiological Role on Brain ATP Synthase. <i>Journal of Neuroscience</i> , 2016 , 36, 10510-10521	6.6	96

(2014-2016)

89	Carbon monoxide shifts energetic metabolism from glycolysis to oxidative phosphorylation in endothelial cells. <i>FEBS Letters</i> , 2016 , 590, 3469-3480	3.8	22
88	Status epilepticus results in persistent overproduction of reactive oxygen species, inhibition of which is neuroprotective. <i>Neuroscience</i> , 2015 , 303, 160-5	3.9	35
87	Functional Oxygen Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , 2015 , 35, 10460-73	6.6	154
86	The emerging role of Nrf2 in mitochondrial function. Free Radical Biology and Medicine, 2015, 88, 179-18	89 .8	493
85	Mutations in HPCA cause autosomal-recessive primary isolated dystonia. <i>American Journal of Human Genetics</i> , 2015 , 96, 657-65	11	59
84	Lipid peroxidation is essential for Bynuclein-induced cell death. <i>Journal of Neurochemistry</i> , 2015 , 133, 582-9	6	77
83	Structural characterization of toxic oligomers that are kinetically trapped during Bynuclein fibril formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1994-2003	11.5	278
82	PKA Phosphorylation of NCLX Reverses Mitochondrial Calcium Overload and Depolarization, Promoting Survival of PINK1-Deficient Dopaminergic Neurons. <i>Cell Reports</i> , 2015 , 13, 376-86	10.6	101
81	Aggregated Bynuclein and complex I deficiency: exploration of their relationship in differentiated neurons. <i>Cell Death and Disease</i> , 2015 , 6, e1820	9.8	104
80	A critical role for purinergic signalling in the mechanisms underlying generation of BOLD fMRI responses. <i>Journal of Neuroscience</i> , 2015 , 35, 5284-92	6.6	42
79	Nrf2 regulates ROS production by mitochondria and NADPH oxidase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 794-801	4	319
78	The spatiotemporal regulation of the Keap1-Nrf2 pathway and its importance in cellular bioenergetics. <i>Biochemical Society Transactions</i> , 2015 , 43, 602-10	5.1	58
77	A missense mutation in KCTD17 causes autosomal dominant myoclonus-dystonia. <i>American Journal of Human Genetics</i> , 2015 , 96, 938-47	11	77
76	Loss of PLA2G6 leads to elevated mitochondrial lipid peroxidation and mitochondrial dysfunction. <i>Brain</i> , 2015 , 138, 1801-16	11.2	100
75	Mitochondrial Ca(2+) in neurodegenerative disorders. <i>Pharmacological Research</i> , 2015 , 99, 377-81	10.2	59
74	Measurement of mitochondrial NADH and FAD autofluorescence in live cells. <i>Methods in Molecular Biology</i> , 2015 , 1264, 263-70	1.4	67
73	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinson disease. <i>Nature Cell Biology</i> , 2014 , 16, 157-66	23.4	91
72	Immunization with either prion protein fragment 95-123 or the fragment-specific antibodies rescue memory loss and neurodegenerative phenotype of neurons in olfactory bulbectomized mice. Neurobiology of Learning and Memory, 2014, 107, 50-64	3.1	13

71	Rare individual amyloid-Doligomers act on astrocytes to initiate neuronal damage. <i>Biochemistry</i> , 2014 , 53, 2442-53	3.2	68
7º	Effect of Coenzyme Q10 supplementation on mitochondrial electron transport chain activity and mitochondrial oxidative stress in Coenzyme Q10 deficient human neuronal cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 50, 60-3	5.6	41
69	Nrf2 affects the efficiency of mitochondrial fatty acid oxidation. <i>Biochemical Journal</i> , 2014 , 457, 415-24	3.8	148
68	In situ investigation of mammalian inorganic polyphosphate localization using novel selective fluorescent probes JC-D7 and JC-D8. <i>ACS Chemical Biology</i> , 2014 , 9, 2101-10	4.9	44
67	Interaction of neurons and astrocytes underlies the mechanism of All-induced neurotoxicity. <i>Biochemical Society Transactions</i> , 2014 , 42, 1286-90	5.1	46
66	Seizure activity results in calcium- and mitochondria-independent ROS production via NADPH and xanthine oxidase activation. <i>Cell Death and Disease</i> , 2014 , 5, e1442	9.8	66
65	Novel C12orf65 mutations in patients with axonal neuropathy and optic atrophy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014 , 85, 486-92	5.5	29
64	PINK1 deficiency in I-cells increases basal insulin secretion and improves glucose tolerance in mice. <i>Open Biology</i> , 2014 , 4, 140051	7	32
63	Ambroxol improves lysosomal biochemistry in glucocerebrosidase mutation-linked Parkinson disease cells. <i>Brain</i> , 2014 , 137, 1481-95	11.2	201
62	Monoamine oxidase-A knockdown in human neuroblastoma cells reveals protection against mitochondrial toxins. <i>FASEB Journal</i> , 2014 , 28, 218-29	0.9	26
61	Hypoxia signaling controls postnatal changes in cardiac mitochondrial morphology and function. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 74, 340-52	5.8	55
60	Lipid peroxidation is essential for phospholipase C activity and the inositol-trisphosphate-related CaI+ signal. <i>Journal of Cell Science</i> , 2014 , 127, 21-6	5.3	38
59	The Parkinson® disease-linked proteins Fbxo7 and Parkin interact to mediate mitophagy. <i>Nature Neuroscience</i> , 2013 , 16, 1257-65	25.5	220
58	The role of the mitochondrial NCX in the mechanism of neurodegeneration in Parkinson B disease. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 961, 241-9	3.6	20
57	Dopamine protects neurons against glutamate-induced excitotoxicity. <i>Cell Death and Disease</i> , 2013 , 4, e455	9.8	68
56	Human neuronal coenzyme Q10 deficiency results in global loss of mitochondrial respiratory chain activity, increased mitochondrial oxidative stress and reversal of ATP synthase activity: implications for pathogenesis and treatment. <i>Journal of Inherited Metabolic Disease</i> , 2013 , 36, 63-73	5.4	41
55	Energy depletion in seizures: anaplerosis as a strategy for future therapies. <i>Neuropharmacology</i> , 2013 , 69, 96-104	5.5	51
54	Melatonin attenuates dexamethasone toxicity-induced oxidative stress, calpain and caspase activation in human neuroblastoma SH-SY5Y cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013 , 138, 116-22	5.1	31

(2011-2013)

53	Glucocorticoids reduce intracellular calcium concentration and protects neurons against glutamate toxicity. <i>Cell Calcium</i> , 2013 , 53, 256-63	4	29
52	Role of polyhydroxybutyrate in mitochondrial calcium uptake. <i>Cell Calcium</i> , 2013 , 54, 86-94	4	21
51	Pathogenic VCP mutations induce mitochondrial uncoupling and reduced ATP levels. <i>Neuron</i> , 2013 , 78, 57-64	13.9	105
50	Acetylcholine and antibodies against the acetylcholine receptor protect neurons and astrocytes against beta-amyloid toxicity. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 899-907	5.6	13
49	Signalling properties of inorganic polyphosphate in the mammalian brain. <i>Nature Communications</i> , 2013 , 4, 1362	17.4	103
48	Hypoxic regulation of hand1 controls the fetal-neonatal switch in cardiac metabolism. <i>PLoS Biology</i> , 2013 , 11, e1001666	9.7	41
47	Nrf2 impacts cellular bioenergetics by controlling substrate availability for mitochondrial respiration. <i>Biology Open</i> , 2013 , 2, 761-70	2.2	266
46	Polyhydroxybutyrate targets mammalian mitochondria and increases permeability of plasmalemmal and mitochondrial membranes. <i>PLoS ONE</i> , 2013 , 8, e75812	3.7	26
45	Mild stress of caffeine increased mtDNA content in skeletal muscle cells: the interplay between Ca2+ transients and nitric oxide. <i>Journal of Muscle Research and Cell Motility</i> , 2012 , 33, 327-37	3.5	8
44	Impact of fumonisin B1 on glutamate toxicity and low magnesium-induced seizure activity in neuronal primary culture. <i>Neuroscience</i> , 2012 , 202, 10-6	3.9	21
43	Direct observation of the interconversion of normal and toxic forms of ⊞ynuclein. <i>Cell</i> , 2012 , 149, 1048	-5 %.2	588
42	Mutations in ANO3 cause dominant craniocervical dystonia: ion channel implicated in pathogenesis. <i>American Journal of Human Genetics</i> , 2012 , 91, 1041-50	11	172
41	Prolonged seizure activity impairs mitochondrial bioenergetics and induces cell death. <i>Journal of Cell Science</i> , 2012 , 125, 1796-806	5.3	61
40	Mechanism of oxidative stress in neurodegeneration. <i>Oxidative Medicine and Cellular Longevity</i> , 2012 , 2012, 428010	6.7	517
39	Dopamine induced neurodegeneration in a PINK1 model of Parkinson® disease. PLoS ONE, 2012, 7, e37	′5 ⁄6/ 1	58
38	HtrA2 deficiency causes mitochondrial uncoupling through the FEFATP synthase and consequent ATP depletion. <i>Cell Death and Disease</i> , 2012 , 3, e335	9.8	30
37	Measurements of threshold of mitochondrial permeability transition pore opening in intact and permeabilized cells by flash photolysis of caged calcium. <i>Methods in Molecular Biology</i> , 2011 , 793, 299-3	10 ¹ 9 ⁴	10
36	Fumonisin B1 inhibits mitochondrial respiration and deregulates calcium homeostasisimplication to mechanism of cell toxicity. <i>International Journal of Biochemistry and Cell Biology</i> , 2011 , 43, 897-904	5.6	82

35	Mechanism of neuroprotection of melatonin against beta-amyloid neurotoxicity. <i>Neuroscience</i> , 2011 , 180, 229-37	3.9	44
34	Bioenergetic consequences of PINK1 mutations in Parkinson disease. <i>PLoS ONE</i> , 2011 , 6, e25622	3.7	75
33	Membrane cholesterol content plays a key role in the neurotoxicity of Damyloid: implications for Alzheimer R disease. <i>Aging Cell</i> , 2011 , 10, 595-603	9.9	67
32	Cell metabolism affects selective vulnerability in PINK1-associated Parkinson® disease. <i>Journal of Cell Science</i> , 2011 , 124, 4194-202	5.3	50
31	Beta-amyloid activates PARP causing astrocytic metabolic failure and neuronal death. <i>Brain</i> , 2011 , 134, 1658-72	11.2	132
30	PINK1 cleavage at position A103 by the mitochondrial protease PARL. <i>Human Molecular Genetics</i> , 2011 , 20, 867-79	5.6	314
29	Dopamine induces Ca2+ signaling in astrocytes through reactive oxygen species generated by monoamine oxidase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25018-23	5.4	84
28	Mechanism of neurodegeneration of neurons with mitochondrial DNA mutations. <i>Brain</i> , 2010 , 133, 797	-8072	91
27	Targeting mitochondrial dysfunction in neurodegenerative disease: Part II. <i>Expert Opinion on Therapeutic Targets</i> , 2010 , 14, 497-511	6.4	37
26	Impaired mitochondrial bioenergetics determines glutamate-induced delayed calcium deregulation in neurons. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010 , 1800, 297-304	4	62
25	Targeting mitochondrial dysfunction in neurodegenerative disease: Part I. <i>Expert Opinion on Therapeutic Targets</i> , 2010 , 14, 369-85	6.4	47
24	Inorganic polyphosphate and energy metabolism in mammalian cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 9420-9428	5.4	132
23	Novel pathway for an old neurotransmitter: dopamine-induced neuronal calcium signalling via receptor-independent mechanisms. <i>Cell Calcium</i> , 2010 , 48, 176-82	4	23
22	Maternal diet-induced obesity alters mitochondrial activity and redox status in mouse oocytes and zygotes. <i>PLoS ONE</i> , 2010 , 5, e10074	3.7	316
21	Lack of oxygen deactivates mitochondrial complex I: implications for ischemic injury?. <i>Journal of Biological Chemistry</i> , 2009 , 284, 36055-36061	5.4	101
20	PINK1-associated Parkinsonß disease is caused by neuronal vulnerability to calcium-induced cell death. <i>Molecular Cell</i> , 2009 , 33, 627-38	17.6	507
19	Deletion of the von Hippel-Lindau gene in pancreatic beta cells impairs glucose homeostasis in mice. <i>Journal of Clinical Investigation</i> , 2009 , 119, 125-35	15.9	93
18	Ischemia-Reperfusion Induces ROS Production from Three Distinct Sources 2009 , 97-108		

LIST OF PUBLICATIONS

17	PINK1 is necessary for long term survival and mitochondrial function in human dopaminergic neurons. <i>PLoS ONE</i> , 2008 , 3, e2455	3.7	252
16	Mechanisms underlying the loss of mitochondrial membrane potential in glutamate excitotoxicity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 953-64	4.6	142
15	Regulation of mitochondrial structure and function by the F1Fo-ATPase inhibitor protein, IF1. <i>Cell Metabolism</i> , 2008 , 8, 13-25	24.6	206
14	High sensitivity, quantitative measurements of polyphosphate using a new DAPI-based approach. <i>Journal of Fluorescence</i> , 2008 , 18, 859-66	2.4	161
13	Three distinct mechanisms generate oxygen free radicals in neurons and contribute to cell death during anoxia and reoxygenation. <i>Journal of Neuroscience</i> , 2007 , 27, 1129-38	6.6	477
12	Targeted polyphosphatase expression alters mitochondrial metabolism and inhibits calcium-dependent cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18091-6	11.5	165
11	Expression and modulation of an NADPH oxidase in mammalian astrocytes. <i>Journal of Neuroscience</i> , 2005 , 25, 9176-84	6.6	198
10	The role of an astrocytic NADPH oxidase in the neurotoxicity of amyloid beta peptides. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005 , 360, 2309-14	5.8	117
9	Beta-amyloid peptides induce mitochondrial dysfunction and oxidative stress in astrocytes and death of neurons through activation of NADPH oxidase. <i>Journal of Neuroscience</i> , 2004 , 24, 565-75	6.6	459
8	The large-conductance Ca2+-activated K+ channel is essential for innate immunity. <i>Nature</i> , 2004 , 427, 853-8	50.4	161
7	Calcium signals induced by amyloid beta peptide and their consequences in neurons and astrocytes in culture. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2004 , 1742, 81-7	4.9	159
6	Toxicity of amyloid beta peptide: tales of calcium, mitochondria, and oxidative stress. Neurochemical Research, 2004 , 29, 637-50	4.6	169
5	Actions of ionomycin, 4-BrA23187 and a novel electrogenic Ca2+ ionophore on mitochondria in intact cells. <i>Cell Calcium</i> , 2003 , 33, 101-12	4	74
4	Changes in intracellular calcium and glutathione in astrocytes as the primary mechanism of amyloid neurotoxicity. <i>Journal of Neuroscience</i> , 2003 , 23, 5088-95	6.6	258
3	Modulation of intracellular Ca(2+) concentration by vitamin B12 in rat thymocytes. <i>Blood Cells, Molecules, and Diseases</i> , 2001 , 27, 812-24	2.1	5
2	Influence of plant terpenoids on the permeability of mitochondria and lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001 , 1512, 98-110	3.8	33
1	Ionophoretic properties of ferutinin. <i>Cell Calcium</i> , 1997 , 22, 235-41	4	33