

Andrey Y Abramov

List of Publications by Citations

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178
papers

13,883
citations

63
h-index

115
g-index

197
ext. papers

16,656
ext. citations

7.2
avg, IF

6.91
L-index

#	Paper	IF	Citations
178	Direct observation of the interconversion of normal and toxic forms of β -synuclein. <i>Cell</i> , 2012 , 149, 1048-56	56.2	588
177	Mechanism of oxidative stress in neurodegeneration. <i>Oxidative Medicine and Cellular Longevity</i> , 2012 , 2012, 428010	6.7	517
176	PINK1-associated Parkinson's disease is caused by neuronal vulnerability to calcium-induced cell death. <i>Molecular Cell</i> , 2009 , 33, 627-38	17.6	507
175	The emerging role of Nrf2 in mitochondrial function. <i>Free Radical Biology and Medicine</i> , 2015 , 88, 179-188	18.8	493
174	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
173	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
172	Nrf2 regulates ROS production by mitochondria and NADPH oxidase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 794-801	4	319
171	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
170	PINK1 cleavage at position A103 by the mitochondrial protease PARL. <i>Human Molecular Genetics</i> , 2011 , 20, 867-79	5.6	314
169	Role of mitochondrial ROS in the brain: from physiology to neurodegeneration. <i>FEBS Letters</i> , 2018 , 592, 692-702	3.8	283
168	Structural characterization of toxic oligomers that are kinetically trapped during β -synuclein fibril formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1994-2003	11.5	278
167	Nrf2 impacts cellular bioenergetics by controlling substrate availability for mitochondrial respiration. <i>Biology Open</i> , 2013 , 2, 761-70	2.2	266
166	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
165	PINK1 is necessary for long term survival and mitochondrial function in human dopaminergic neurons. <i>PLoS ONE</i> , 2008 , 3, e2455	3.7	252
164	β -synuclein oligomers interact with ATP synthase and open the permeability transition pore in Parkinson's disease. <i>Nature Communications</i> , 2018 , 9, 2293	17.4	223
163	The Parkinson's disease-linked proteins Fbxo7 and Parkin interact to mediate mitophagy. <i>Nature Neuroscience</i> , 2013 , 16, 1257-65	25.5	220
162	Regulation of mitochondrial structure and function by the F1Fo-ATPase inhibitor protein, IF1. <i>Cell Metabolism</i> , 2008 , 8, 13-25	24.6	206

161	Ambroxol improves lysosomal biochemistry in glucocerebrosidase mutation-linked Parkinson disease cells. <i>Brain</i> , 2014 , 137, 1481-95	11.2	201
160	Expression and modulation of an NADPH oxidase in mammalian astrocytes. <i>Journal of Neuroscience</i> , 2005 , 25, 9176-84	6.6	198
159	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 376-91	8.4	192
158	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
157	Toxicity of amyloid beta peptide: tales of calcium, mitochondria, and oxidative stress. <i>Neurochemical Research</i> , 2004 , 29, 637-50	4.6	169
156	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
155	High sensitivity, quantitative measurements of polyphosphate using a new DAPI-based approach. <i>Journal of Fluorescence</i> , 2008 , 18, 859-66	2.4	161
154	The large-conductance Ca ²⁺ -activated K ⁺ channel is essential for innate immunity. <i>Nature</i> , 2004 , 427, 853-8	50.4	161
153	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
152	Functional Oxygen Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , 2015 , 35, 10460-73	6.6	154
151	Nrf2 affects the efficiency of mitochondrial fatty acid oxidation. <i>Biochemical Journal</i> , 2014 , 457, 415-24	3.8	148
150	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
149	Inorganic polyphosphate and energy metabolism in mammalian cells. <i>Journal of Biological Chemistry</i> , 2010 , 285, 9420-9428	5.4	132
148	Beta-amyloid activates PARP causing astrocytic metabolic failure and neuronal death. <i>Brain</i> , 2011 , 134, 1658-72	11.2	132
147	Functional role of mitochondrial reactive oxygen species in physiology. <i>Free Radical Biology and Medicine</i> , 2016 , 100, 81-85	7.8	130
146	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
145	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
144	Ca ²⁺ is a key factor in β -synuclein-induced neurotoxicity. <i>Journal of Cell Science</i> , 2016 , 129, 1792-801	5.3	106

143	Pathogenic VCP mutations induce mitochondrial uncoupling and reduced ATP levels. <i>Neuron</i> , 2013 , 78, 57-64	13.9	105
142	Aggregated β -synuclein and complex I deficiency: exploration of their relationship in differentiated neurons. <i>Cell Death and Disease</i> , 2015 , 6, e1820	9.8	104
141	Signalling properties of inorganic polyphosphate in the mammalian brain. <i>Nature Communications</i> , 2013 , 4, 1362	17.4	103
140	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
139	Lack of oxygen deactivates mitochondrial complex I: implications for ischemic injury?. <i>Journal of Biological Chemistry</i> , 2009 , 284, 36055-36061	5.4	101
138	Loss of PLA2G6 leads to elevated mitochondrial lipid peroxidation and mitochondrial dysfunction. <i>Brain</i> , 2015 , 138, 1801-16	11.2	100
137	Monomeric Alpha-Synuclein Exerts a Physiological Role on Brain ATP Synthase. <i>Journal of Neuroscience</i> , 2016 , 36, 10510-10521	6.6	96
136	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
135	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
134	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinson's disease. <i>Nature Cell Biology</i> , 2014 , 16, 157-66	23.4	91
133	Mechanism of neurodegeneration of neurons with mitochondrial DNA mutations. <i>Brain</i> , 2010 , 133, 797-807	10.7	91
132	Mitochondrial dysfunction in Parkinsonian mesenchymal stem cells impairs differentiation. <i>Redox Biology</i> , 2018 , 14, 474-484	11.3	89
131	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
130	Targeting oxidative stress improves disease outcomes in a rat model of acquired epilepsy. <i>Brain</i> , 2017 , 140, 1885-1899	11.2	86
129	Role of DJ-1 in the mechanism of pathogenesis of Parkinson's disease. <i>Journal of Bioenergetics and Biomembranes</i> , 2019 , 51, 175-188	3.7	85
128	Dopamine induces Ca ²⁺ signaling in astrocytes through reactive oxygen species generated by monoamine oxidase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25018-23	5.4	84
127	Fumonisin B1 inhibits mitochondrial respiration and deregulates calcium homeostasis--implication to mechanism of cell toxicity. <i>International Journal of Biochemistry and Cell Biology</i> , 2011 , 43, 897-904	5.6	82
126	Lipid peroxidation is essential for β -synuclein-induced cell death. <i>Journal of Neurochemistry</i> , 2015 , 133, 582-9	6	77

125	A missense mutation in KCTD17 causes autosomal dominant myoclonus-dystonia. <i>American Journal of Human Genetics</i> , 2015 , 96, 938-47	11	77
124	Mitochondrial energy imbalance and lipid peroxidation cause cell death in Friedreich's ataxia. <i>Cell Death and Disease</i> , 2016 , 7, e2237	9.8	75
123	Bioenergetic consequences of PINK1 mutations in Parkinson disease. <i>PLoS ONE</i> , 2011 , 6, e25622	3.7	75
122	Actions of ionomycin, 4-BrA23187 and a novel electrogenic Ca ²⁺ ionophore on mitochondria in intact cells. <i>Cell Calcium</i> , 2003 , 33, 101-12	4	74
121	Rare individual amyloid- β oligomers act on astrocytes to initiate neuronal damage. <i>Biochemistry</i> , 2014 , 53, 2442-53	3.2	68
120	Dopamine protects neurons against glutamate-induced excitotoxicity. <i>Cell Death and Disease</i> , 2013 , 4, e455	9.8	68
119	Measurement of mitochondrial NADH and FAD autofluorescence in live cells. <i>Methods in Molecular Biology</i> , 2015 , 1264, 263-70	1.4	67
118	Membrane cholesterol content plays a key role in the neurotoxicity of β -amyloid: implications for Alzheimer's disease. <i>Aging Cell</i> , 2011 , 10, 595-603	9.9	67
117	Mitochondrial calcium imbalance in Parkinson's disease. <i>Neuroscience Letters</i> , 2018 , 663, 86-90	3.3	66
116	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
115	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
114	Prolonged seizure activity impairs mitochondrial bioenergetics and induces cell death. <i>Journal of Cell Science</i> , 2012 , 125, 1796-806	5.3	61
113	Intracellular pH Modulates Autophagy and Mitophagy. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8701-854	60	
112	Mutations in HPCA cause autosomal-recessive primary isolated dystonia. <i>American Journal of Human Genetics</i> , 2015 , 96, 657-65	11	59
111	Deletions at 22q11.2 in idiopathic Parkinson's disease: a combined analysis of genome-wide association data. <i>Lancet Neurology</i> , 2016 , 15, 585-96	24.1	59
110	Mitochondrial Ca(2+) in neurodegenerative disorders. <i>Pharmacological Research</i> , 2015 , 99, 377-81	10.2	59
109	KEAP1 inhibition is neuroprotective and suppresses the development of epilepsy. <i>Brain</i> , 2018 , 141, 1390-1403	58	
108	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

107	Dopamine induced neurodegeneration in a PINK1 model of Parkinson's disease. <i>PLoS ONE</i> , 2012 , 7, e37564	5.8	58
106	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
105	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
104	Measurement of Tau Filament Fragmentation Provides Insights into Prion-like Spreading. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 1276-1282	5.7	51
103	Energy depletion in seizures: anaplerosis as a strategy for future therapies. <i>Neuropharmacology</i> , 2013 , 69, 96-104	5.5	51
102	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
101	Interaction of misfolded proteins and mitochondria in neurodegenerative disorders. <i>Biochemical Society Transactions</i> , 2017 , 45, 1025-1033	5.1	50
100	Cell metabolism affects selective vulnerability in PINK1-associated Parkinson's disease. <i>Journal of Cell Science</i> , 2011 , 124, 4194-202	5.3	50
99	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
98	Targeting mitochondrial dysfunction in neurodegenerative disease: Part I. <i>Expert Opinion on Therapeutic Targets</i> , 2010 , 14, 369-85	6.4	47
97	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
96	Interaction of neurons and astrocytes underlies the mechanism of A β -induced neurotoxicity. <i>Biochemical Society Transactions</i> , 2014 , 42, 1286-90	5.1	46
95	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
94	Mechanism of neuroprotection of melatonin against beta-amyloid neurotoxicity. <i>Neuroscience</i> , 2011 , 180, 229-37	3.9	44
93	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
92	Pathogenic p62/SQSTM1 mutations impair energy metabolism through limitation of mitochondrial substrates. <i>Scientific Reports</i> , 2017 , 7, 1666	4.9	43
91	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
90	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

89	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
88	Hypoxic regulation of hand1 controls the fetal-neonatal switch in cardiac metabolism. <i>PLoS Biology</i> , 2013 , 11, e1001666	9.7	41
87	Clinical, pathological and functional characterization of riboflavin-responsive neuropathy. <i>Brain</i> , 2017 , 140, 2820-2837	11.2	40
86	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
85	Lipid peroxidation is essential for phospholipase C activity and the inositol-trisphosphate-related Ca ²⁺ signal. <i>Journal of Cell Science</i> , 2014 , 127, 21-6	5.3	38
84	Targeting mitochondrial dysfunction in neurodegenerative disease: Part II. <i>Expert Opinion on Therapeutic Targets</i> , 2010 , 14, 497-511	6.4	37
83	Tau inhibits mitochondrial calcium efflux and makes neurons vulnerable to calcium-induced cell death. <i>Cell Calcium</i> , 2020 , 86, 102150	4	36
82	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
81	Ionophoretic properties of ferutinin. <i>Cell Calcium</i> , 1997 , 22, 235-41	4	33
80	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
79	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
78	Combination antioxidant therapy prevents epileptogenesis and modifies chronic epilepsy. <i>Redox Biology</i> , 2019 , 26, 101278	11.3	32
77	PINK1 deficiency in β-cells increases basal insulin secretion and improves glucose tolerance in mice. <i>Open Biology</i> , 2014 , 4, 140051	7	32
76	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
75	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
74	Phospholipase iPLA ₂ averts ferroptosis by eliminating a redox lipid death signal. <i>Nature Chemical Biology</i> , 2021 , 17, 465-476	11.7	31
73	HtrA2 deficiency causes mitochondrial uncoupling through the F ₁ F ₀ ATP synthase and consequent ATP depletion. <i>Cell Death and Disease</i> , 2012 , 3, e335	9.8	30
72	Deficiency of Parkinson's 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

71	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
70	Glucocorticoids reduce intracellular calcium concentration and protects neurons against glutamate toxicity. <i>Cell Calcium</i> , 2013 , 53, 256-63	4	29
69	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
68	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
67	Pharmacological Sequestration of Mitochondrial Calcium Uptake Protects Neurons Against Glutamate Excitotoxicity. <i>Molecular Neurobiology</i> , 2019 , 56, 2244-2255	6.2	28
66	Monoamine oxidase-A knockdown in human neuroblastoma cells reveals protection against mitochondrial toxins. <i>FASEB Journal</i> , 2014 , 28, 218-29	0.9	26
65	Polyhydroxybutyrate targets mammalian mitochondria and increases permeability of plasmalemmal and mitochondrial membranes. <i>PLoS ONE</i> , 2013 , 8, e75812	3.7	26
64	Signal transduction in astrocytes: Localization and release of inorganic polyphosphate. <i>Glia</i> , 2018 , 66, 2126-2136	9	25
63	Mitochondrial Calcium Deregulation in the Mechanism of Beta-Amyloid and Tau Pathology. <i>Cells</i> , 2020 , 9,	7.9	24
62	Interaction of Oxidative Stress and Misfolded Proteins in the Mechanism of Neurodegeneration. <i>Life</i> , 2020 , 10,	3	23
61	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
60	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
59	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
58	Carbon monoxide shifts energetic metabolism from glycolysis to oxidative phosphorylation in endothelial cells. <i>FEBS Letters</i> , 2016 , 590, 3469-3480	3.8	22
57	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
56	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
55	Role of polyhydroxybutyrate in mitochondrial calcium uptake. <i>Cell Calcium</i> , 2013 , 54, 86-94	4	21
54	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

53	The role of the mitochondrial NCX in the mechanism of neurodegeneration in Parkinson's disease. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 961, 241-9	3.6	20
52	Inorganic polyphosphate is produced and hydrolyzed in F0F1-ATP synthase of mammalian mitochondria. <i>Biochemical Journal</i> , 2020 , 477, 1515-1524	3.8	20
51	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
50	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
49	Neuroprotective coordination of cell mitophagy by the ATPase Inhibitory Factor 1. <i>Pharmacological Research</i> , 2016 , 103, 56-68	10.2	16
48	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
47	Cellular mechanisms of complex I-associated pathology. <i>Biochemical Society Transactions</i> , 2019 , 47, 1963-1969	5.1	16
46	Deficiency of the zinc finger protein ZFP106 causes motor and sensory neurodegeneration. <i>Human Molecular Genetics</i> , 2016 , 25, 291-307	5.6	13
45	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. <i>Neurobiology of Learning and Memory</i> , 2014 , 107, 50-64	3.1	13
44	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
43	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
42	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
41	The Role of Reactive Oxygen Species in Epilepsy. <i>Reactive Oxygen Species (Apex, N C)</i> , 2016 , 1,	4.7	11
40	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
39	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, 299-309	1.4	10
38	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
37	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
36	Visualization of mitochondrial membrane potential in mammalian cells. <i>Methods in Cell Biology</i> , 2020 , 155, 221-245	1.8	8

35	Mitochondrial dysfunction and energy deprivation in the mechanism of neurodegeneration. <i>Biyokimya Dergisi</i> , 2019 , 44, 723-729	0.7	8
34	Mild stress of caffeine increased mtDNA content in skeletal muscle cells: the interplay between Ca ²⁺ transients and nitric oxide. <i>Journal of Muscle Research and Cell Motility</i> , 2012 , 33, 327-37	3.5	8
33	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
32	Interaction of Mitochondrial Calcium and ROS in Neurodegeneration.. <i>Cells</i> , 2022 , 11,	7.9	8
31	Mitochondrial ROS control neuronal excitability and cell fate in frontotemporal dementia. <i>Alzheimer's and Dementia</i> , 2021 ,	1.2	7
30	Singlet oxygen stimulates mitochondrial bioenergetics in brain cells. <i>Free Radical Biology and Medicine</i> , 2021 , 163, 306-313	7.8	6
29	Photo-Induced Oxidative Stress Impairs Mitochondrial Metabolism in Neurons and Astrocytes. <i>Molecular Neurobiology</i> , 2018 , 55, 90-95	6.2	5
28	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
27	Impaired Bioenergetics in Mutant Mitochondrial DNA Determines Cell Fate During Seizure-Like Activity. <i>Molecular Neurobiology</i> , 2019 , 56, 321-334	6.2	5
26	Variability of mitochondrial energy balance across brain regions. <i>Journal of Neurochemistry</i> , 2021 , 157, 1234-1243	6	5
25	Annexin A5 prevents amyloid- β -induced toxicity in choroid plexus: implication for Alzheimer's disease. <i>Scientific Reports</i> , 2020 , 10, 9391	4.9	4
24	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response.. <i>iScience</i> , 2022 , 25, 103827	6.1	4
23	Age-related changes in the energy of human mesenchymal stem cells. <i>Journal of Cellular Physiology</i> , 2021 ,	7	3
22	Assessment of ROS Production in the Mitochondria of Live Cells. <i>Methods in Molecular Biology</i> , 2021 , 2202, 33-42	1.4	3
21	Ca ²⁺ is a key factor in β -synuclein-induced neurotoxicity. <i>Development (Cambridge)</i> , 2016 , 143, e1.1-e1.1	6.6	3
20	An integrated genomic approach to dissect the genetic landscape regulating the cell-to-cell transfer of β -synuclein. <i>Cell Reports</i> , 2021 , 35, 109189	10.6	3
19	Proteomic Analysis of Cardiac Adaptation to Exercise by High Resolution Mass Spectrometry. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 723858	5.6	3
18	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

17	Lactate and Pyruvate Activate Autophagy and Mitophagy that Protect Cells in Toxic Model of Parkinson's Disease. <i>Molecular Neurobiology</i> , 2021 , 1	6.2	2
16	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
15	Protein Misfolding and Aggregation: Implications for Mitochondrial Dysfunction and Neurodegeneration 2016 , 241-253		1
14	Verification of NADH content measurements by portable optical diagnostic system in living brain tissue 2018 ,		1
13	Dopamine controls neuronal spontaneous calcium oscillations via astrocytic signal. <i>Cell Calcium</i> , 2021 , 94, 102359	4	1
12	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
11	Role of Inorganic Polyphosphate in the Cells of the Mammalian Brain 2016 , 115-121		1
10	Different faces of neurodegeneration. <i>FEBS Journal</i> , 2018 , 285, 3544-3546	5.7	1
9	Metabolically induced intracellular pH changes activate mitophagy, autophagy, and cell protection in familial forms of Parkinson's disease. <i>FEBS Journal</i> , 2021 ,	5.7	1
8	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
7	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
6	Hyperammonemia induces mitochondrial dysfunction and neuronal cell death. <i>JHEP Reports</i> , 2022 , 100510.3	10.3	0
5	Reply: Glial mitochondriopathy in infantile neuroaxonal dystrophy: pathophysiological and therapeutic implications. <i>Brain</i> , 2016 , 139, e68	11.2	
4	[P1075]: ANNEXIN V PREVENTS β -AMYLOID-INDUCED TOXICITY IN CHOROID PLEXUS: IMPLICATIONS FOR ALZHEIMER'S and ACUTE DISEASE 2017 , 13, P310-P310		
3	Ischemia-Reperfusion Induces ROS Production from Three Distinct Sources 2009 , 97-108		
2	B27 Abnormal bioenergetics in inclusion-containing mutant HTT exon 1 primary human neurons. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, A18.2-A19	5.5	
1	Inorganic Polyphosphate and F ₀ F ₁ -ATP Synthase of Mammalian Mitochondria. <i>Progress in Molecular and Subcellular Biology</i> , 2022 , 1-13	3	