GLUT4 Mobilization Supports Energetic Demands of Ac

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Citation Report

#	Article	IF	Citations
1	One Cycle Fuels Another: The Energetics of Neurotransmitter Release. Neuron, 2017, 93, 470-472.	3.8	0
3	Glucose metabolism in nerve terminals. Current Opinion in Neurobiology, 2017, 45, 156-161.	2.0	106
4	Neurons eat glutamate to stay alive. Journal of Cell Biology, 2017, 216, 863-865.	2.3	15
5	Amyloid-Î² oligomers transiently inhibit AMP-activated kinase and cause metabolic defects in hippocampal neurons. Journal of Biological Chemistry, 2017, 292, 7395-7406.	1.6	51
6	Neuronal SIRT1 (Silent Information Regulator 2 Homologue 1) Regulates Glycolysis and Mediates Resveratrol-Induced Ischemic Tolerance. Stroke, 2017, 48, 3117-3125.	1.0	62
7	Neuronal Stimulation Triggers Neuronal Glycolysis and Not Lactate Uptake. Cell Metabolism, 2017, 26, 361-374.e4.	7.2	327
8	Mitochondrial health maintenance in axons. Biochemical Society Transactions, 2017, 45, 1045-1052.	1.6	20
9	How Energy Metabolism Supports Cerebral Function: Insights from 13C Magnetic Resonance Studies In vivo. Frontiers in Neuroscience, 2017, 11, 288.	1.4	64
10	PINK1/Parkin-Dependent Mitochondrial Surveillance: From Pleiotropy to Parkinson's Disease. Frontiers in Molecular Neuroscience, 2017, 10, 120.	1.4	75
11	Synaptic activityâ€induced glycolysis facilitates membrane lipid provision and neurite outgrowth. EMBO Journal, 2018, 37, .	3.5	35
12	Mitochondria at the neuronal presynapse in health and disease. Nature Reviews Neuroscience, 2018, 19, 63-80.	4.9	486
13	Glucose and lactate as metabolic constraints on presynaptic transmission at an excitatory synapse. Journal of Physiology, 2018, 596, 1699-1721.	1.3	30
14	Alzheimerâ€™s Disease: From Firing Instability to Homeostasis Network Collapse. Neuron, 2018, 97, 32-58.	3.8	188
15	Emerging roles of mitochondria in synaptic transmission and neurodegeneration. Current Opinion in Physiology, 2018, 3, 82-93.	0.9	85
16	Spatial control of neuronal metabolism through glucose-mediated mitochondrial transport regulation. ELife, 2018, 7, .	2.8	21
17	The Role of Sirt1 in Ischemic Stroke: Pathogenesis and Therapeutic Strategies. Frontiers in Neuroscience, 2018, 12, 833.	1.4	43
18	Dysregulated Glucose Metabolism as a Therapeutic Target to Reduce Post-traumatic Epilepsy. Frontiers in Cellular Neuroscience, 2018, 12, 350.	1.8	16
19	AMP-Activated Protein Kinase Is Essential for the Maintenance of Energy Levels during Synaptic Activation. IScience, 2018, 9, 1-13.	1.9	59

#	Article	IF	Citations
20	Setting the stage for a role of the postsynaptic proteome in inherited neurometabolic disorders. Journal of Inherited Metabolic Disease, 2018, 41, 1093-1101.	1.7	3
21	Metabolic regulation of synaptic activity. Reviews in the Neurosciences, 2018, 29, 825-835.	1.4	16
22	Nutrient limitation affects presynaptic structures through dissociable Bassoon autophagic degradation and impaired vesicle release. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1924-1939.	2.4	11
23	Glia-neuron energy metabolism in health and diseases: New insights into the role of nervous system metabolic transporters. Experimental Neurology, 2018, 309, 23-31.	2.0	123
24	The Implication of the Brain Insulin Receptor in Late Onset Alzheimerâ€™s Disease Dementia. Pharmaceuticals, 2018, 11, 11.	1.7	45
25	Fueling thought: Management of glycolysis and oxidative phosphorylation in neuronal metabolism. Journal of Cell Biology, 2018, 217, 2235-2246.	2.3	248
26	Long noncoding RNA HOTTIP alleviates oxygenâ€glucose deprivationâ€induced neuronal injury via modulating miRâ€143/hexokinase 2 pathway. Journal of Cellular Biochemistry, 2018, 119, 10107-10117.	1.2	21
27	Axonal Mitochondria Modulate Neuropeptide Secretion Through the Hypoxic Stress Response in <i>Caenorhabditis elegans</i>. Genetics, 2018, 210, 275-285.	1.2	13
28	Brown adipocyte glucose metabolism: a heated subject. EMBO Reports, 2018, 19, .	2.0	89
29	Metabolomic Assays of Postmortem Brain Extracts: Pitfalls in Extrapolation of Concentrations of Glucose and Amino Acids to Metabolic Dysregulation In Vivo in Neurological Diseases. Neurochemical Research, 2019, 44, 2239-2260.	1.6	12
30	Multi-Loop Model of Alzheimer Disease: An Integrated Perspective on the Wnt/GSK3Î², Î±-Synuclein, and Type 3 Diabetes Hypotheses. Frontiers in Aging Neuroscience, 2019, 11, 184.	1.7	32
31	Considerable differences between auditory medulla, auditory midbrain, and hippocampal synapses during sustained high-frequency stimulation: Exceptional vesicle replenishment restricted to sound localization circuit. Hearing Research, 2019, 381, 107771.	0.9	8
32	Pleiotropic Mitochondria: The Influence of Mitochondria on Neuronal Development and Disease. Journal of Neuroscience, 2019, 39, 8200-8208.	1.7	124
33	Energetic substrate availability regulates synchronous activity in an excitatory neural network. PLoS ONE, 2019, 14, e0220937.	1.1	13
34	Development of a Model to Test Whether Glycogenolysis Can Support Astrocytic Energy Demands of Na+, K+-ATPase and Glutamate-Glutamine Cycling, Sparing an Equivalent Amount of Glucose for Neurons. Advances in Neurobiology, 2019, 23, 385-433.	1.3	9
35	<i>In vitro</i> compartmental system underlines the contribution of mitochondrial immobility to the ATP supply in the NMJ. Journal of Cell Science, 2019, 132, .	1.2	23
36	Hyperbaric oxygen toxicity in brain: A case of hyperoxia induced hypoglycemic brain syndrome. Medical Hypotheses, 2019, 132, 109375.	0.8	11
37	Transcript Analysis of Zebrafish GLUT3 Genes, slc2a3a and slc2a3b, Define Overlapping as Well as Distinct Expression Domains in the Zebrafish (Danio rerio) Central Nervous System. Frontiers in Molecular Neuroscience, 2019, 12, 199.	1.4	6

#	Article	IF	Citations
38	Does shuttling of glycogenâ€derived lactate from astrocytes to neurons take place during neurotransmission and memory consolidation?. Journal of Neuroscience Research, 2019, 97, 863-882.	1.3	42
39	Thirty sweet years of GLUT4. Journal of Biological Chemistry, 2019, 294, 11369-11381.	1.6	223
40	A novel mutation in <i>Slc2a4</i> as a mouse model of fatigue. Genes, Brain and Behavior, 2019, 18, e12578.	1.1	0
41	The â€œprotectedâ€• glucose transport through the astrocytic endoplasmic reticulum is too slow to serve as a quantitativelyâ€important highway for nutrient delivery. Journal of Neuroscience Research, 2019, 97, 854-862.	1.3	10
42	Powerhouse of the mind: mitochondrial plasticity at the synapse. Current Opinion in Neurobiology, 2019, 57, 149-155.	2.0	65
43	Mechanisms for the maintenance and regulation of axonal energy supply. Journal of Neuroscience Research, 2019, 97, 897-913.	1.3	75
44	Synaptic energy metabolism and neuronal excitability, in sickness and health. Journal of Inherited Metabolic Disease, 2019, 42, 220-236.	1.7	36
45	Mitochondria, Metabolism, and Redox Mechanisms in Psychiatric Disorders. Antioxidants and Redox Signaling, 2019, 31, 275-317.	2.5	112
46	Molecular mechanisms by which aerobic exercise induces insulin sensitivity. Journal of Cellular Physiology, 2019, 234, 12385-12392.	2.0	51
47	Spatially Stable Mitochondrial Compartments Fuel Local Translation during Plasticity. Cell, 2019, 176, 73-84.e15.	13.5	235
48	Brain Glucose Metabolism: Integration of Energetics with Function. Physiological Reviews, 2019, 99, 949-1045.	13.1	442
49	A review of the molecular pathways mediating the improvement in diabetes mellitus following caloric restriction. Journal of Cellular Physiology, 2019, 234, 8436-8442.	2.0	9
50	Modulation of olfactory-driven behavior by metabolic signals: role of the piriform cortex. Brain Structure and Function, 2019, 224, 315-336.	1.2	24
51	Wntâ€induced activation of glucose metabolism mediates the <i>inÂvivo</i> neuroprotective roles of Wnt signaling in Alzheimer disease. Journal of Neurochemistry, 2019, 149, 54-72.	2.1	49
52	GluT4: A central player in hippocampal memory and brain insulin resistance. Experimental Neurology, 2020, 323, 113076.	2.0	73
53	Molecular Tuning of the Axonal Mitochondrial Ca2+ Uniporter Ensures Metabolic Flexibility of Neurotransmission. Neuron, 2020, 105, 678-687.e5.	3.8	136
54	A Discrete Presynaptic Vesicle Cycle for Neuromodulator Receptors. Neuron, 2020, 105, 663-677.e8.	3.8	42
55	Glucose, Fructose, and Urate Transporters in the Choroid Plexus Epithelium. International Journal of Molecular Sciences, 2020, 21, 7230.	1.8	17

#	Article	IF	Citations
56	Lactate Attenuates Synaptic Transmission and Affects Brain Rhythms Featuring High Energy Expenditure. IScience, 2020, 23, 101316.	1.9	33
57	MERCs. The Novel Assistant to Neurotransmission?. Frontiers in Neuroscience, 2020, 14, 589319.	1.4	12
58	Mitochondrial Miro GTPases coordinate mitochondrial and peroxisomal dynamics. Small GTPases, 2021, 12, 372-398.	0.7	12
59	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	21.5	441
60	Glucose transporters in brain in health and disease. Pflugers Archiv European Journal of Physiology, 2020, 472, 1299-1343.	1.3	235
61	Cerebrovascular Blood Flow Design and Regulation; Vulnerability in Aging Brain. Frontiers in Physiology, 2020, 11, 584891.	1.3	6
62	Brain energy metabolism and multiple sclerosis: progress and prospects. Archives of Pharmacal Research, 2020, 43, 1017-1030.	2.7	10
63	Building GLUT4 Vesicles: CHC22 Clathrinâ€™s Human Touch. Trends in Cell Biology, 2020, 30, 705-719.	3.6	28
64	Reevaluation of Astrocyte-Neuron Energy Metabolism with Astrocyte Volume Fraction Correction: Impact on Cellular Glucose Oxidation Rates, Glutamateâ€"Glutamine Cycle Energetics, Glycogen Levels and Utilization Rates vs. Exercising Muscle, and Na+/K+ Pumping Rates. Neurochemical Research, 2020, 45, 2607-2630.	1.6	28
65	Î±-Lipoic Acid Maintains Brain Glucose Metabolism via BDNF/TrkB/HIF-1Î± Signaling Pathway in P301S Mice. Frontiers in Aging Neuroscience, 2020, 12, 262.	1.7	14
66	Diabetic neuropathy and neuropathic pain: a (con)fusion of pathogenic mechanisms?. Pain, 2020, 161, S65-S86.	2.0	54
67	Mitochondrial defects in the respiratory complex I contribute to impaired translational initiation via ROS and energy homeostasis in SMA motor neurons. Acta Neuropathologica Communications, 2020, 8, 223.	2.4	26
68	Energy Metabolism Decline in the Aging Brainâ€"Pathogenesis of Neurodegenerative Disorders. Metabolites, 2020, 10, 450.	1.3	55
69	Metformin/Donepezil combination modulates brain antioxidant status and hippocampal endoplasmic reticulum stress in type 2 diabetic rats. Journal of Diabetes and Metabolic Disorders, 2020, 19, 499-510.	0.8	16
70	Distinct regulation of bioenergetics and translation by group I mGluR and NMDAR. EMBO Reports, 2020, 21, e48037.	2.0	12
71	Interleukin-6 Treatment Results in GLUT4 Translocation and AMPK Phosphorylation in Neuronal SH-SY5Y Cells. Cells, 2020, 9, 1114.	1.8	20
72	Insulin stimulated GLUT4 translocation â€" Size is not everything!. Current Opinion in Cell Biology, 2020, 65, 28-34.	2.6	39
73	Fluid Brain Glycolysis: Limits, Speed, Location, Moonlighting, and the Fates of Glycogen and Lactate. Neurochemical Research, 2020, 45, 1328-1334.	1.6	14

#	Article	IF	Citations
74	Glycogenolysis Is Crucial for Astrocytic Glycogen Accumulation and Brain Damage after Reperfusion in Ischemic Stroke. IScience, 2020, 23, 101136.	1.9	30
75	Not Fade Away: Mechanisms of Neuronal ATP Homeostasis. Neuron, 2020, 105, 591-593.	3.8	7
76	The Role of RNA Binding Proteins for Local mRNA Translation: Implications in Neurological Disorders. Frontiers in Molecular Biosciences, 2019, 6, 161.	1.6	79
77	Glucose, glycolysis, and neurodegenerative diseases. Journal of Cellular Physiology, 2020, 235, 7653-7662.	2.0	98
78	Tackling mitochondrial diversity in brain function: from animal models to human brain organoids. International Journal of Biochemistry and Cell Biology, 2020, 123, 105760.	1.2	12
79	Brain Metabolism Alterations in Type 2 Diabetes: What Did We Learn From Diet-Induced Diabetes Models?. Frontiers in Neuroscience, 2020, 14, 229.	1.4	54
80	Rosemary extract increases neuronal cell glucose uptake and activates AMPK. Applied Physiology, Nutrition and Metabolism, 2021, 46, 141-147.	0.9	7
81	AAV delivery of shRNA against IRS1 in GABAergic neurons in rat hippocampus impairs spatial memory in females and male rats. Brain Structure and Function, 2021, 226, 163-178.	1.2	8
82	Andrographolide restores glucose uptake in rat hippocampal neurons. Journal of Neurochemistry, 2021, 157, 1222-1233.	2.1	11
83	Vesicular Glutamate Transporters (SLCA17 A6, 7, 8) Control Synaptic Phosphate Levels. Cell Reports, 2021, 34, 108623.	2.9	7
84	Intranasal Insulin for Alzheimerâ€™s Disease. CNS Drugs, 2021, 35, 21-37.	2.7	67
85	Impact of Genetic Risk Factors for Alzheimerâ€™s Disease on Brain Glucose Metabolism. Molecular Neurobiology, 2021, 58, 2608-2619.	1.9	13
86	Effects of lactate and carbon monoxide interactions on neuroprotection and neuropreservation. Medical Gas Research, 2021, 11, 158.	1.2	7
87	Repurposing of Omarigliptin as a Neuroprotective Agent Based on Docking with A2A Adenosine and AChE Receptors, Brain GLP-1 Response and Its Brain/Plasma Concentration Ratio after 28 Days Multiple Doses in Rats Using LC-MS/MS. Molecules, 2021, 26, 889.	1.7	10
88	The distinct roles of calcium in rapid control of neuronal glycolysis and the tricarboxylic acid cycle. ELife, 2021, 10, .	2.8	51
89	Neuroprotective Effect of Astragaloside IV on Cerebral Ischemia/Reperfusion Injury Rats Through Sirt1/Mapt Pathway. Frontiers in Pharmacology, 2021, 12, 639898.	1.6	27
90	Rheb mediates neuronal-activity-induced mitochondrial energetics through mTORC1-independent PDH activation. Developmental Cell, 2021, 56, 811-825.e6.	3.1	23
91	Therapies for Alzheimerâ€™s disease: a metabolic perspective. Molecular Genetics and Metabolism, 2021, 132, 162-172.	0.5	8

#	Article	IF	Citations
92	Glucose Metabolic Dysfunction in Neurodegenerative Diseasesâ€"New Mechanistic Insights and the Potential of Hypoxia as a Prospective Therapy Targeting Metabolic Reprogramming. International Journal of Molecular Sciences, 2021, 22, 5887.	1.8	49
93	Aberrant activity of mitochondrial NCLX is linked to impaired synaptic transmission and is associated with mental retardation. Communications Biology, 2021, 4, 666.	2.0	22
94	Wdfy3 regulates glycophagy, mitophagy, and synaptic plasticity. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 3213-3231.	2.4	9
97	InÂvivo glucose imaging in multiple model organisms with an engineered single-wavelength sensor. Cell Reports, 2021, 35, 109284.	2.9	24
98	Reassessment of Pioglitazone for Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2021, 15, 666958.	1.4	30
99	Miro1-dependent mitochondrial dynamics in parvalbumin interneurons. ELife, 2021, 10, .	2.8	13
100	Mitochondrial calcium at the synapse. Mitochondrion, 2021, 59, 135-153.	1.6	24
101	THE EFFECT OF GLUT4 EXPRESSION IN HIPPOCAMPAL NEURONS TO SPATIAL MEMORY OF DIABETES-INDUCED RATTUS NOVERGICUS. Malang Neurology Journal, 2021, 7, 114-119.	0.2	0
102	Bibliometric Analysis Study on the Mechanisms of Brain Energy Metabolism Disorders in Alzheimer's Disease From 2000 to 2020. Frontiers in Neurology, 2021, 12, 670220.	1.1	15
103	Glial glucose fuels the neuronal pentose phosphate pathway for long-term memory. Cell Reports, 2021, 36, 109620.	2.9	35
104	AMPK in the brain: its roles in glucose and neural metabolism. FEBS Journal, 2022, 289, 2247-2262.	2.2	38
105	Mitochondria in Neuronal Health: From Energy Metabolism to Parkinson's Disease. Advanced Biology, 2021, 5, e2100663.	1.4	37
107	Intranasal 15d-PGJ2 ameliorates brain glucose hypometabolism via PPARÎ³-dependent activation of PGC-1Î±/GLUT4 signalling in APP/PS1 transgenic mice. Neuropharmacology, 2021, 196, 108685.	2.0	6
108	Developmental shift to mitochondrial respiration for energetic support of sustained transmission during maturation at the calyx of Held. Journal of Neurophysiology, 2021, 126, 976-996.	0.9	8
109	Dual imaging of dendritic spines and mitochondria in vivo reveals hotspots of plasticity and metabolic adaptation to stress. Neurobiology of Stress, 2021, 15, 100402.	1.9	13
110	Decrypting the potential role of Î±-lipoic acid in Alzheimer's disease. Life Sciences, 2021, 284, 119899.	2.0	28
111	Partial inhibition of mitochondrial complex I ameliorates Alzheimerâ€™s disease pathology and cognition in APP/PS1 female mice. Communications Biology, 2021, 4, 61.	2.0	35
112	Intranasal insulin. Journal of Neuroendocrinology, 2021, 33, e12934.	1.2	44

#	Article	IF	Citations
113	Animal Models of Metabolic Disorders in the Study of Neurodegenerative Diseases: An Overview. Frontiers in Neuroscience, 2020, 14, 604150.	1.4	31
114	Glycogenolysis in Cerebral Cortex During Sensory Stimulation, Acute Hypoglycemia, and Exercise: Impact on Astrocytic Energetics, Aerobic Glycolysis, and Astrocyte-Neuron Interactions. Advances in Neurobiology, 2019, 23, 209-267.	1.3	22
121	Linking epigenetic dysregulation, mitochondrial impairment, and metabolic dysfunction in SBMA motor neurons. JCI Insight, 2020, 5, .	2.3	19
122	Faecal microbiota transplant from aged donor mice affects spatial learning and memory via modulating hippocampal synaptic plasticity- and neurotransmission-related proteins in young recipients. Microbiome, 2020, 8, 140.	4.9	134
123	<i>In Vivo</i> Glucose Imaging in Multiple Model Organisms with an Engineered Single-Wavelength Sensor. SSRN Electronic Journal, 0, , .	0.4	2
124	Cancerâ€‘related fatigue during combined treatment of androgen deprivation therapy and radiotherapy is associated with mitochondrial dysfunction. International Journal of Molecular Medicine, 2020, 45, 485-496.	1.8	14
125	Current understanding of glucose transporter 4 expression and functional mechanisms. World Journal of Biological Chemistry, 2020, 11, 76-98.	1.7	40
126	Glycolysis upregulation is neuroprotective as a compensatory mechanism in ALS. ELife, 2019, 8, .	2.8	76
127	Disruption of Glucose Metabolism in Aged Octodon degus: A Sporadic Model of Alzheimer's Disease. Frontiers in Integrative Neuroscience, 2021, 15, 733007.	1.0	2
130	Brain energy failure in dementia syndromes: Opportunities and challenges for glucagonâ€like peptideâ€1 receptor agonists. Alzheimer's and Dementia, 2022, 18, 478-497.	0.4	13
137	Energy matters: presynaptic metabolism and the maintenance of synaptic transmission. Nature Reviews Neuroscience, 2022, 23, 4-22.	4.9	66
138	Autocrine inhibition by a glutamate-gated chloride channel mediates presynaptic homeostatic depression. Science Advances, 2021, 7, eabj1215.	4.7	9
139	Synaptic vesicle pools are a major hidden resting metabolic burden of nerve terminals. Science Advances, 2021, 7, eabi9027.	4.7	50
140	The metabolic signaling of the nucleoredoxin-like 2 gene supports brain function. Redox Biology, 2021, 48, 102198.	3.9	7
141	Astrocyte Bioenergetics and Major Psychiatric Disorders. Advances in Neurobiology, 2021, 26, 173-227.	1.3	5
142	Glucose sparing by glycogenolysis (GSG) determines the relationship between brain metabolism and neurotransmission. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 844-860.	2.4	24
144	Neuronâ€glia (mis)interactions in brain energy metabolism during aging. Journal of Neuroscience Research, 2022, 100, 835-854.	1.3	10
145	Subcellular proteomics of dopamine neurons in the mouse brain. ELife, 2022, 11, .	2.8	30

#	Article	IF	Citations
146	Toward the Decipherment of Molecular Interactions in the Diabetic Brain. Biomedicines, 2022, 10, 115.	1.4	2
147	Dysmetabolism and Neurodegeneration: Trick or Treat?. Nutrients, 2022, 14, 1425.	1.7	8
148	Synapses: The Brainâ€™s Energy-Demanding Sites. International Journal of Molecular Sciences, 2022, 23, 3627.	1.8	29
149	Visualizing physiological parameters in cells and tissues using genetically encoded indicators for metabolites. Free Radical Biology and Medicine, 2022, 182, 34-58.	1.3	14
150	Brain Metabolic Alterations in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2022, 23, 3785.	1.8	28
151	Hormone-sensitive lipase is localized at synapses and is necessary for normal memory functioning in mice. Journal of Lipid Research, 2022, 63, 100195.	2.0	7
152	Presynaptic Mitochondrial Volume and Packing Density Scale with Presynaptic Power Demand. Journal of Neuroscience, 2022, 42, 954-967.	1.7	18
153	Role of ketone bodies in diabetes-induced dementia: sirtuins, insulin resistance, synaptic plasticity, mitochondrial dysfunction, and neurotransmitter. Nutrition Reviews, 2022, 80, 774-785.	2.6	14
158	BrainPhys Neuronal Media Support Physiological Function of Mitochondria in Mouse Primary Neuronal Cultures. Frontiers in Molecular Neuroscience, 0, 15, .	1.4	4
159	Activity-Driven Synaptic Translocation of LGI1 Controls Excitatory Neurotransmission. SSRN Electronic Journal, 0, , .	0.4	0
160	Molecular Characterization of the Tumor Microenvironment in Renal Medullary Carcinoma. Frontiers in Oncology, 0, 12, .	1.3	4
162	Mitochondrial heterogeneity and homeostasis through the lens of a neuron. Nature Metabolism, 2022, 4, 802-812.	5.1	40
164	Inositol hexakisphosphate kinases differentially regulate trafficking of vesicular glutamate transporters 1 and 2. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	9
165	Alpha-Ketoglutarate Alleviates Neuronal Apoptosis Induced by Central Insulin Resistance through Inhibiting S6K1 Phosphorylation after Subarachnoid Hemorrhage. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-24.	1.9	5
166	Serine racemase modulation for improving brain insulin resistance. Journal of Neurochemistry, 0, , .	2.1	0
167	Mechanistic stoichiometric relationship between the rates of neurotransmission and neuronal glucose oxidation: Reevaluation of and alternatives to the pseudoâ€malateâ€aspartate shuttle model. Journal of Neurochemistry, 0, , .	2.1	3
168	Mitochondrial Dysfunction in Spinal Muscular Atrophy. International Journal of Molecular Sciences, 2022, 23, 10878.	1.8	13
169	Aberrant energy metabolism in Alzheimerâ€™s disease. Journal of Translational Internal Medicine, 2022, 10, 197-206.	1.0	12

#	Article	IF	Citations
172	Glycolysis regulates neuronal excitability via lactate receptor, HCA1R. Brain, 2023, 146, 1888-1902.	3.7	6
173	Synthetic Monosaccharide Channels: Sizeâ€Selective Transmembrane Transport of Glucose and Fructose Mediated by Porphyrin Boxes. Angewandte Chemie, 0, , .	1.6	0
174	Synthetic Monosaccharide Channels: Sizeâ€Selective Transmembrane Transport of Glucose and Fructose Mediated by Porphyrin Boxes. Angewandte Chemie - International Edition, 0, , .	7.2	3
175	Cocaine-regulated trafficking of dopamine transporters in cultured neurons revealed by a pH sensitive reporter. IScience, 2023, 26, 105782.	1.9	0
176	Antiandrogenic Effects of a Polyphenol in Carex kobomugi through Inhibition of Androgen Synthetic Pathway and Downregulation of Androgen Receptor in Prostate Cancer Cell Lines. International Journal of Molecular Sciences, 2022, 23, 14356.	1.8	0
177	Insulin resistance in ischemic stroke: Mechanisms and therapeutic approaches. Frontiers in Endocrinology, 0, 13, .	1.5	13
179	Synaptic Activity Regulates Mitochondrial Iron Metabolism to Enhance Neuronal Bioenergetics. International Journal of Molecular Sciences, 2023, 24, 922.	1.8	3
180	Loss of brain energy metabolism control as a driver for memory impairment upon insulin resistance. Biochemical Society Transactions, 2023, 51, 287-301.	1.6	3
181	Energy metabolic pathways in neuronal development and function. , 2023, 2, .		0
182	Oligodendrocyte-derived transcellular signaling regulates axonal energy metabolism. Current Opinion in Neurobiology, 2023, 80, 102722.	2.0	6
183	Regulation of neuronal energy metabolism by calcium: Role of MCU and Aralar/malate-aspartate shuttle. Biochimica Et Biophysica Acta - Molecular Cell Research, 2023, 1870, 119468.	1.9	6
184	In vivo calibration of genetically encoded metabolite biosensors must account for metabolite metabolism during calibration and cellular volume. Journal of Neurochemistry, 0, , .	2.1	2
187	Alzheimerâ€™s Disease from the Amyloidogenic Theory to the Puzzling Crossroads between Vascular, Metabolic and Energetic Maladaptive Plasticity. Biomedicines, 2023, 11, 861.	1.4	1
188	A tribute to Leif Hertz: The historical context of his pioneering studies of the roles of astrocytes in brain energy metabolism, neurotransmission, cognitive functions, and pharmacology identifies important, unresolved topics for future studies. Journal of Neurochemistry, 0, , .	2.1	4
189	Neurons require glucose uptake and glycolysis inÂvivo. Cell Reports, 2023, 42, 112335.	2.9	18
190	Insulin and disorders of behavioural flexibility. Neuroscience and Biobehavioral Reviews, 2023, 150, 105169.	2.9	1