

Luc Pellerin

List of Publications by Year in descending order

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195
papers

21,012
citations

16411

64
h-index

10424

139
g-index

203
all docs

203
docs citations

203
times ranked

16568
citing authors

#	ARTICLE	IF	CITATIONS
1	Clozapine induces astrocyte-dependent FDG-PET hypometabolism. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2251-2264.	3.3	14
2	Neuroprotective Effect of Eco-Sustainably Extracted Grape Polyphenols in Neonatal Hypoxia-Ischemia. <i>Nutrients</i> , 2022, 14, 773.	1.7	6
3	Bisphenol S favors hepatic steatosis development via an upregulation of liver MCT1 expression and an impairment of the mitochondrial respiratory system. <i>Journal of Cellular Physiology</i> , 2022, 237, 3057-3068.	2.0	3
4	Neuroprotective role of lactate in rat neonatal hypoxia-ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 342-358.	2.4	52
5	Peculiar protrusions along tanycyte processes face diverse neural and nonneural cell types in the hypothalamic parenchyma. <i>Journal of Comparative Neurology</i> , 2021, 529, 553-575.	0.9	23
6	Mechanism of succinate efflux upon reperfusion of the ischaemic heart. <i>Cardiovascular Research</i> , 2021, 117, 1188-1201.	1.8	59
7	Disrupted function of lactate transporter <i>MCT1</i> , but not <i>MCT4</i> , in Schwann cells affects the maintenance of motor endplate innervation. <i>Glia</i> , 2021, 69, 124-136.	2.5	24
8	Lactate fluxes mediated by the monocarboxylate transporter-1 are key determinants of the metabolic activity of beige adipocytes. <i>Journal of Biological Chemistry</i> , 2021, 296, 100137.	1.6	22
9	Altered mRNA and Protein Expression of Monocarboxylate Transporter MCT1 in the Cerebral Cortex and Cerebellum of Prion Protein Knockout Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1566.	1.8	2
10	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.	7.1	1,098
11	Inhibition of eIF5A hypusination reprogrammes metabolism and glucose handling in mouse kidney. <i>Cell Death and Disease</i> , 2021, 12, 283.	2.7	18
12	About the source and consequences of 18F-FDG brain PET hypometabolism in short and long COVID-19. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2674-2675.	3.3	9
13	The Hepatic Monocarboxylate Transporter 1 (MCT1) Contributes to the Regulation of Food Anticipation in Mice. <i>Frontiers in Physiology</i> , 2021, 12, 665476.	1.3	10
14	Neuroinflammatory Response to TNF α and IL1 β Cytokines Is Accompanied by an Increase in Glycolysis in Human Astrocytes In Vitro. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4065.	1.8	13
15	Astrocyte Biomarkers in Alzheimer Disease. <i>Neurology</i> , 2021, 96, .	1.5	70
16	Lactate transporters in the rat barrel cortex sustain whisker-dependent BOLD fMRI signal and behavioral performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
17	Nutritional Impact on Metabolic Homeostasis and Brain Health. <i>Frontiers in Neuroscience</i> , 2021, 15, 767405.	1.4	14
18	The eukaryotic initiation factor 5A (eIF5A1), the molecule, mechanisms and recent insights into the pathophysiological roles. <i>Cell and Bioscience</i> , 2021, 11, 219.	2.1	13

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19	Urinary ketone body loss leads to degeneration of brain white matter in elderly SLC5A8-deficient mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1709-1723.	2.4	6
20	Neuronal and astroglial monocarboxylate transporters play key but distinct roles in hippocampus-dependent learning and memory formation. <i>Progress in Neurobiology</i> , 2020, 194, 101888.	2.8	41
21	Reducing monocarboxylate transporter MCT1 worsens experimental diabetic peripheral neuropathy. <i>Experimental Neurology</i> , 2020, 333, 113415.	2.0	11
22	Endothelial Lactate Controls Muscle Regeneration from Ischemia by Inducing M2-like Macrophage Polarization. <i>Cell Metabolism</i> , 2020, 31, 1136-1153.e7.	7.2	233
23	Glucose metabolism links astroglial mitochondria to cannabinoid effects. <i>Nature</i> , 2020, 583, 603-608.	13.7	169
24	Maternal alcoholism and neonatal hypoxia-ischemia: Neuroprotection by stilbenoid polyphenols. <i>Brain Research</i> , 2020, 1738, 146798.	1.1	15
25	Neuroprotective Effect of Maternal Resveratrol Supplementation in a Rat Model of Neonatal Hypoxia-Ischemia. <i>Frontiers in Neuroscience</i> , 2020, 14, 616824.	1.4	6
26	Effects of bisphenol S, a major substitute of bisphenol A, on neurobehavioral responses and cerebral monocarboxylate transporters expression in mice. <i>Food and Chemical Toxicology</i> , 2019, 132, 110670.	1.8	20
27	Tanycytes Regulate Lipid Homeostasis by Sensing Free Fatty Acids and Signaling to Key Hypothalamic Neuronal Populations via FGF21 Secretion. <i>Cell Metabolism</i> , 2019, 30, 833-844.e7.	7.2	57
28	Development of Efficient AAV2/DJ-Based Viral Vectors to Selectively Downregulate the Expression of Neuronal or Astrocytic Target Proteins in the Rat Central Nervous System. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 201.	1.4	13
29	Maternal consumption of piceatannol: A nutritional neuroprotective strategy against hypoxia-ischemia in rat neonates. <i>Brain Research</i> , 2019, 1717, 86-94.	1.1	14
30	Cell-Type-Specific Gene Expression Profiling in Adult Mouse Brain Reveals Normal and Disease-State Signatures. <i>Cell Reports</i> , 2019, 26, 2477-2493.e9.	2.9	55
31	Astrocyte Biomarkers in Alzheimer's Disease. <i>Trends in Molecular Medicine</i> , 2019, 25, 77-95.	3.5	203
32	Neuroprotective effect of osac on supplement-deprived mouse cultured cortical neurons involves maintenance of monocarboxylate transporter MCT2 protein levels. <i>Journal of Neurochemistry</i> , 2019, 148, 80-96.	2.1	13
33	Impact of MCT1 Haploinsufficiency on the Mouse Retina. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 375-380.	0.8	5
34	Cortical Bilateral Adaptations in Rats Submitted to Focal Cerebral Ischemia: Emphasis on Glial Metabolism. <i>Molecular Neurobiology</i> , 2018, 55, 2025-2041.	1.9	13
35	Current technical approaches to brain energy metabolism. <i>Glia</i> , 2018, 66, 1138-1159.	2.5	40
36	Neuroenergetics: Astrocytes Have a Sweet Spot for Glucose. <i>Current Biology</i> , 2018, 28, R1258-R1260.	1.8	16

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37	[18F]FDG PET signal is driven by astroglial glutamate transport. <i>Nature Neuroscience</i> , 2017, 20, 393-395.	7.1	232
38	Role of MCT1 and CAII in skeletal muscle pH homeostasis, energetics, and function: <i>in vivo</i> insights from MCT1 haploinsufficient mice. <i>FASEB Journal</i> , 2017, 31, 2562-2575.	0.2	21
39	AMPK activation caused by reduced liver lactate metabolism protects against hepatic steatosis in MCT1 haploinsufficient mice. <i>Molecular Metabolism</i> , 2017, 6, 1625-1633.	3.0	25
40	The Self-Inactivating KamiCas9 System for the Editing of CNS Disease Genes. <i>Cell Reports</i> , 2017, 20, 2980-2991.	2.9	96
41	Hyperpalatable Diet and Physical Exercise Modulate the Expression of the Glial Monocarboxylate Transporters MCT1 and 4. <i>Molecular Neurobiology</i> , 2017, 54, 5807-5814.	1.9	10
42	A neuronal MCT2 knockdown in the rat somatosensory cortex reduces both the NMR lactate signal and the BOLD response during whisker stimulation. <i>PLoS ONE</i> , 2017, 12, e0174990.	1.1	42
43	Cerebral Ketone Body Oxidation Is Facilitated by a High Fat Diet Enriched with Advanced Glycation End Products in Normal and Diabetic Rats. <i>Frontiers in Neuroscience</i> , 2016, 10, 509.	1.4	4
44	E4F1-mediated control of pyruvate dehydrogenase activity is essential for skin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11004-11009.	3.3	22
45	Astrocytes are key but indirect contributors to the development of the symptomatology and pathophysiology of Huntington's disease. <i>Glia</i> , 2016, 64, 1841-1856.	2.5	37
46	Hypothalamic sensing of ketone bodies after prolonged cerebral exposure leads to metabolic control dysregulation. <i>Scientific Reports</i> , 2016, 6, 34909.	1.6	18
47	Monocarboxylate transporters in the brain and in cancer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2481-2497.	1.9	291
48	β -Hydroxybutyrate supports synaptic vesicle cycling but reduces endocytosis and exocytosis in rat brain synaptosomes. <i>Neurochemistry International</i> , 2016, 93, 73-81.	1.9	36
49	Evidence for hypothalamic ketone body sensing: impact on food intake and peripheral metabolic responses in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E103-E115.	1.8	33
50	Cell-specific modulation of monocarboxylate transporter expression contributes to the metabolic reprogramming taking place following cerebral ischemia. <i>Neuroscience</i> , 2016, 317, 108-120.	1.1	35
51	Improvement of Neuroenergetics by Hypertonic Lactate Therapy in Patients with Traumatic Brain Injury Is Dependent on Baseline Cerebral Lactate/Pyruvate Ratio. <i>Journal of Neurotrauma</i> , 2016, 33, 681-687.	1.7	66
52	Neuroenergetic Response to Prolonged Cerebral Glucose Depletion after Severe Brain Injury and the Role of Lactate. <i>Journal of Neurotrauma</i> , 2015, 32, 1560-1566.	1.7	26
53	A Probable Dual Mode of Action for Both L- and D-Lactate Neuroprotection in Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1561-1569.	2.4	77
54	Distribution of Monocarboxylate Transporters in the Peripheral Nervous System Suggests Putative Roles in Lactate Shuttling and Myelination. <i>Journal of Neuroscience</i> , 2015, 35, 4151-4156.	1.7	60

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55	Monocarboxylate transporters: new players in body weight regulation. <i>Obesity Reviews</i> , 2015, 16, 55-66.	3.1	33
56	Long-Lasting Metabolic Imbalance Related to Obesity Alters Olfactory Tissue Homeostasis and Impairs Olfactory-Driven Behaviors. <i>Chemical Senses</i> , 2015, 40, 537-556.	1.1	34
57	Caveolin expression changes in the neurovascular unit after juvenile traumatic brain injury: Signs of blood-brain barrier healing?. <i>Neuroscience</i> , 2015, 285, 215-226.	1.1	51
58	Deficiency in monocarboxylate transporter 1 (MCT1) in mice delays regeneration of peripheral nerves following sciatic nerve crush. <i>Experimental Neurology</i> , 2015, 263, 325-338.	2.0	71
59	Glutamate reduces glucose utilization while concomitantly enhancing AQP9 and MCT2 expression in cultured rat hippocampal neurons. <i>Frontiers in Neuroscience</i> , 2014, 8, 246.	1.4	8
60	Oxygen tension controls the expression of the monocarboxylate transporter MCT4 in cultured mouse cortical astrocytes via a hypoxia-inducible factor-1-mediated transcriptional regulation. <i>Glia</i> , 2014, 62, 477-490.	2.5	67
61	Cellular distribution of glucose and monocarboxylate transporters in human brain white matter and multiple sclerosis lesions. <i>Glia</i> , 2014, 62, 1125-1141.	2.5	88
62	Alzheimer's disease: the amyloid hypothesis and the Inverse Warburg effect. <i>Frontiers in Physiology</i> , 2014, 5, 522.	1.3	103
63	Effects of sodium arsenite on neurite outgrowth and glutamate AMPA receptor expression in mouse cortical neurons. <i>NeuroToxicology</i> , 2013, 37, 197-206.	1.4	36
64	Unraveling the complex metabolic nature of astrocytes. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 179.	1.8	114
65	Resistance to Diet-Induced Obesity and Associated Metabolic Perturbations in Haploinsufficient Monocarboxylate Transporter 1 Mice. <i>PLoS ONE</i> , 2013, 8, e82505.	1.1	66
66	Determinants of Brain Cell Metabolic Phenotypes and Energy Substrate Utilization Unraveled with a Modeling Approach. <i>PLoS Computational Biology</i> , 2012, 8, e1002686.	1.5	20
67	Endothelial Cell-Derived Nitric Oxide Enhances Aerobic Glycolysis in Astrocytes via HIF-1-Mediated Target Gene Activation. <i>Journal of Neuroscience</i> , 2012, 32, 9727-9735.	1.7	88
68	Sweet Sixteen for ANLS. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1152-1166.	2.4	580
69	Alteration of glucose metabolism in cultured astrocytes after AQP9-small interference RNA application. <i>Brain Research</i> , 2012, 1473, 19-24.	1.1	26
70	Oligodendroglia metabolically support axons and contribute to neurodegeneration. <i>Nature</i> , 2012, 487, 443-448.	13.7	1,287
71	Rise in Plasma Lactate Concentrations with Psychosocial Stress: A Possible Sign of Cerebral Energy Demand. <i>Obesity Facts</i> , 2012, 5, 384-392.	1.6	25
72	Brain Energy Consumption Induced by Electrical Stimulation Promotes Systemic Glucose Uptake. <i>Biological Psychiatry</i> , 2011, 70, 690-695.	0.7	61

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73	Brain-derived neurotrophic factor enhances the hippocampal expression of key postsynaptic proteins in vivo including the monocarboxylate transporter MCT2. <i>Neuroscience</i> , 2011, 192, 155-163.	1.1	45
74	The anorexigenic effects of metformin involve increases in hypothalamic leptin receptor expression. <i>Metabolism: Clinical and Experimental</i> , 2011, 60, 327-334.	1.5	71
75	Temporal changes in mRNA expression of the brain nutrient transporters in the lithium-pilocarpine model of epilepsy in the immature and adult rat. <i>Neurobiology of Disease</i> , 2011, 43, 588-597.	2.1	27
76	Nitric oxide induces the expression of the monocarboxylate transporter MCT4 in cultured astrocytes by a cGMP-independent transcriptional activation. <i>Glia</i> , 2011, 59, 1987-1995.	2.5	23
77	Insights into Neuronal Cell Metabolism Using NMR Spectroscopy: Uridyl Diphosphate Acetylglucosamine as a Unique Metabolic Marker. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11672-11674.	7.2	6
78	Low plasma lactate concentration as a biomarker of an incompetent brain-pull: A risk factor for weight gain in type 2 diabetes patients. <i>Psychoneuroendocrinology</i> , 2010, 35, 1287-1293.	1.3	3
79	Glycogen Metabolism as a Marker of Astrocyte Differentiation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 51-55.	2.4	26
80	Brain-Derived Neurotrophic Factor Enhances the Expression of the Monocarboxylate Transporter 2 through Translational Activation in Mouse Cultured Cortical Neurons. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 286-298.	2.4	52
81	Comment on Recent Modeling Studies of Astrocyte-Neuron Metabolic Interactions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1982-1986.	2.4	70
82	Food for thought: the importance of glucose and other energy substrates for sustaining brain function under varying levels of activity. <i>Diabetes and Metabolism</i> , 2010, 36, S59-S63.	1.4	65
83	Stimulation-Induced Increases of Astrocytic Oxidative Metabolism in Rats and Humans Investigated with ¹¹ C-Acetate. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 44-56.	2.4	43
84	Enhanced Cerebral Expression of MCT1 and MCT2 in a Rat Ischemia Model Occurs in Activated Microglial Cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1273-1283.	2.4	88
85	Linking supply to demand: the neuronal monocarboxylate transporter MCT2 and the β -hydroxylmethylisoxazolepropionic acid receptor GluR2/3 subunit are associated in a common trafficking process. <i>European Journal of Neuroscience</i> , 2009, 29, 1951-1963.		
86	Regulation of the intracellular distribution, cell surface expression, and protein levels of AMPA receptor GluR2 subunits by the monocarboxylate transporter MCT2 in neuronal cells. <i>Journal of Neurochemistry</i> , 2009, 109, 1767-1778.	2.1	16
87	Monocarboxylate Transporters. , 2009, , 961-965.		5
88	Glial Energy Metabolism: Overview. , 2009, , 783-788.		1
89	Insulin and IGF-1 enhance the expression of the neuronal monocarboxylate transporter MCT2 by translational activation via stimulation of the phosphoinositide 3-kinase-Akt mammalian target of rapamycin pathway. <i>European Journal of Neuroscience</i> , 2008, 27, 53-65.	1.2	52
90	Increased expression of monocarboxylate transporters 1, 2, and 4 in colorectal carcinomas. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2008, 452, 139-146.	1.4	211

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91	Basal and stimulated lactate fluxes in primary cultures of astrocytes are differentially controlled by distinct proteins. <i>Journal of Neurochemistry</i> , 2008, 107, 789-798.	2.1	22
92	Making sense of AMPA receptor trafficking by modeling molecular mechanisms of synaptic plasticity. <i>Brain Research</i> , 2008, 1207, 60-72.	1.1	14
93	Distribution of the monocarboxylate transporter MCT2 in human cerebral cortex: An immunohistochemical study. <i>Brain Research</i> , 2008, 1226, 61-69.	1.1	24
94	Differential energetic response of brain vs. skeletal muscle upon glycemic variations in healthy humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R12-R16.	0.9	36
95	Brain energetics (thought needs food). <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2008, 11, 701-705.	1.3	69
96	A coherent neurobiological framework for functional neuroimaging provided by a model integrating compartmentalized energy metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4188-4193.	3.3	80
97	Activation of Astrocytes by CNTF Induces Metabolic Plasticity and Increases Resistance to Metabolic Insults. <i>Journal of Neuroscience</i> , 2007, 27, 7094-7104.	1.7	103
98	Causes of obesity: Looking beyond the hypothalamus. <i>Progress in Neurobiology</i> , 2007, 81, 61-88.	2.8	78
99	Activity-dependent regulation of energy metabolism by astrocytes: An update. <i>Glia</i> , 2007, 55, 1251-1262.	2.5	696
100	341 NEUROPATHIC PAIN AND SPINAL GLIA: CHARACTERIZATION OF C-JUN N-TERMINAL KINASE (JNK) ACTIVATION IN ASTROCYTE CULTURES. <i>European Journal of Pain</i> , 2007, 11, S151-S152.	1.4	0
101	Enhanced expression of three monocarboxylate transporter isoforms in the brain of obese mice. <i>Journal of Physiology</i> , 2007, 583, 469-486.	1.3	72
102	Noradrenaline enhances the expression of the neuronal monocarboxylate transporter MCT2 by translational activation via stimulation of PI3K/Akt and the mTOR/S6K pathway. <i>Journal of Neurochemistry</i> , 2007, 102, 389-397.	2.1	48
103	Metabolic compartmentalization in the human cortex and hippocampus: evidence for a cell- and region-specific localization of lactate dehydrogenase 5 and pyruvate dehydrogenase. <i>BMC Neuroscience</i> , 2007, 8, 35.	0.8	60
104	Competition between glucose and lactate as oxidative energy substrates in both neurons and astrocytes: a comparative NMR study. <i>European Journal of Neuroscience</i> , 2006, 24, 1687-1694.	1.2	197
105	Metabolic Activation Pattern of Distinct Hippocampal Subregions during Spatial Learning and Memory Retrieval. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 468-477.	2.4	21
106	Expression of the monocarboxylate transporter MCT1 in the adult human brain cortex. <i>Brain Research</i> , 2006, 1070, 65-70.	1.1	57
107	How Astrocytes Feed Hungry Neurons. <i>Molecular Neurobiology</i> , 2005, 32, 059-072.	1.9	109
108	Brain lactate kinetics: Modeling evidence for neuronal lactate uptake upon activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16448-16453.	3.3	169

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109	Ampakinetm CX546 bolsters energetic response of astrocytes: a novel target for cognitive-enhancing drugs acting as alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor modulators. <i>Journal of Neurochemistry</i> , 2005, 92, 668-677.	2.1	20
110	Monocarboxylate transporters in the central nervous system: distribution, regulation and function. <i>Journal of Neurochemistry</i> , 2005, 94, 1-14.	2.1	543
111	Cellular and subcellular distribution of monocarboxylate transporters in cultured brain cells and in the adult brain. <i>Journal of Neuroscience Research</i> , 2005, 79, 55-64.	1.3	220
112	Transfer of glycogen-derived lactate from astrocytes to axons via specific monocarboxylate transporters supports mouse optic nerve activity. <i>Journal of Neuroscience Research</i> , 2005, 81, 644-652.	1.3	195
113	Selective Postsynaptic Co-localization of MCT2 with AMPA Receptor GluR2/3 Subunits at Excitatory Synapses Exhibiting AMPA Receptor Trafficking. <i>Cerebral Cortex</i> , 2005, 15, 361-370.	1.6	103
114	Unusual astrocyte reactivity caused by the food mycotoxin ochratoxin A in aggregating rat brain cell cultures. <i>Neuroscience</i> , 2005, 134, 771-782.	1.1	46
115	Theoretical support for the astrocyte-neuron lactate shuttle hypothesis. I. Modeling neuronal and astrocytic NADH/NAD ⁺ kinetics. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S72-S72.	2.4	0
116	Theoretical support for the astrocyte-neuron lactate shuttle hypothesis. II. Modeling brain lactate kinetics. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S90-S90.	2.4	0
117	Ampakine CX546 bolsters energetic response of astrocytes: A novel target for cognitive-enhancing drugs acting as AMPA receptor modulators. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S70-S70.	2.4	0
118	Effects of pro-inflammatory cytokines and beta-amyloid peptide on glucose metabolism in primary cultures of astrocytes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S74-S74.	2.4	0
119	The central role of astrocytes in neurometabolic coupling: A decade's perspective. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S71-S71.	2.4	0
120	Glucocorticoids modulate neurotransmitter-induced glycogen metabolism in cultured cortical astrocytes. <i>Journal of Neurochemistry</i> , 2004, 88, 900-908.	2.1	69
121	Dual-Gene, Dual-Cell Type Therapy against an Excitotoxic Insult by Bolstering Neuroenergetics. <i>Journal of Neuroscience</i> , 2004, 24, 6202-6208.	1.7	58
122	Empiricism and Rationalism: Two Paths toward the Same Goal. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 1240-1241.	2.4	8
123	Quantitative RT-PCR Analysis of Uncoupling Protein Isoforms in Mouse Brain Cortex: Methodological Optimization and Comparison of Expression with Brown Adipose Tissue and Skeletal Muscle. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 780-788.	2.4	58
124	Immunocytochemical expression of monocarboxylate transporters in the human visual cortex at midgestation. <i>Developmental Brain Research</i> , 2004, 148, 69-76.	2.1	14
125	Early acquisition of typical metabolic features upon differentiation of mouse neural stem cells into astrocytes. <i>Glia</i> , 2004, 46, 8-17.	2.5	49
126	The selfish brain: competition for energy resources. <i>Neuroscience and Biobehavioral Reviews</i> , 2004, 28, 143-180.	2.9	404

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127	Neuroenergetics: Calling Upon Astrocytes to Satisfy Hungry Neurons. <i>Neuroscientist</i> , 2004, 10, 53-62.	2.6	230
128	NEUROSCIENCE: Let There Be (NADH) Light. <i>Science</i> , 2004, 305, 50-52.	6.0	97
129	The Central Role of Astrocytes in Neuroenergetics. , 2004, , 367-376.		2
130	Perfusion Tracers: Biological Bases and Clinical Implications. , 2004, , 33-44.		1
131	Perinatal and early postnatal changes in the expression of monocarboxylate transporters MCT1 and MCT2 in the rat forebrain. <i>Journal of Comparative Neurology</i> , 2003, 465, 445-454.	0.9	39
132	Cell-specific expression pattern of monocarboxylate transporters in astrocytes and neurons observed in different mouse brain cortical cell cultures. <i>Journal of Neuroscience Research</i> , 2003, 73, 141-155.	1.3	124
133	Noradrenaline enhances monocarboxylate transporter 2 expression in cultured mouse cortical neurons via a translational regulation. <i>Journal of Neurochemistry</i> , 2003, 86, 1468-1476.	2.1	52
134	Fast food delivery: the response of nursing astrocytes to an exciting call from neurons. <i>Journal of Neurochemistry</i> , 2003, 85, 9-9.	2.1	0
135	Lactate is a Preferential Oxidative Energy Substrate over Glucose for Neurons in Culture. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1298-1306.	2.4	274
136	Food for Thought: Challenging the Dogmas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1282-1286.	2.4	169
137	How to balance the brain energy budget while spending glucose differently. <i>Journal of Physiology</i> , 2003, 546, 325-325.	1.3	69
138	Cryopreservation of human brain tissue allowing timely production of viable adult human brain cells for autologous transplantation. <i>Cryobiology</i> , 2003, 47, 179-183.	0.3	18
139	Lactate as a pivotal element in neuron-glia metabolic cooperation. <i>Neurochemistry International</i> , 2003, 43, 331-338.	1.9	200
140	Glial Glutamate Transporters Mediate a Functional Metabolic Crosstalk between Neurons and Astrocytes in the Mouse Developing Cortex. <i>Neuron</i> , 2003, 37, 275-286.	3.8	259
141	GABA uptake into astrocytes is not associated with significant metabolic cost: Implications for brain imaging of inhibitory transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12456-12461.	3.3	165
142	Developmental and Hormonal Regulation of the Monocarboxylate Transporter 2 (MCT2) Expression in the Mouse Germ Cells ¹ . <i>Biology of Reproduction</i> , 2003, 69, 1069-1078.	1.2	46
143	A _{2B} receptor activation promotes glycogen synthesis in astrocytes through modulation of gene expression. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C696-C704.	2.1	57
144	Similar Perisynaptic Glial Localization for the Na ⁺ ,K ⁺ -ATPase alpha ₂ Subunit and the Glutamate Transporters GLAST and GLT-1 in the Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2002, 12, 515-525.	1.6	165

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146	Role of astrocytes in coupling synaptic activity to glucose utilization. International Congress Series, 2002, 1235, 189-196.	0.2	1
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