

Pierre Julius Magistretti

List of Publications by Year in descending order

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372
papers

39,610
citations

3721

89
h-index

3173

186
g-index

399
all docs

399
docs citations

399
times ranked

32012
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamate uptake into astrocytes stimulates aerobic glycolysis: a mechanism coupling neuronal activity to glucose utilization.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10625-10629.	3.3	2,402
2	Brain Energy Metabolism: Focus on Astrocyte-Neuron Metabolic Cooperation. Cell Metabolism, 2011, 14, 724-738.	7.2	1,727
3	Oligodendroglia metabolically support axons and contribute to neurodegeneration. Nature, 2012, 487, 443-448.	13.7	1,287
4	Astrocyte-Neuron Lactate Transport Is Required for Long-Term Memory Formation. Cell, 2011, 144, 810-823.	13.5	1,285
5	Digital holographic microscopy: a noninvasive contrast imaging technique allowing quantitative visualization of living cells with subwavelength axial accuracy. Optics Letters, 2005, 30, 468.	1.7	1,209
6	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	7.1	1,098
7	NEUROSCIENCE:Energy on Demand. Science, 1999, 283, 496-497.	6.0	1,090
8	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. Nature, 2016, 540, 144-149.	13.7	906
9	A Cellular Perspective on Brain Energy Metabolism and Functional Imaging. Neuron, 2015, 86, 883-901.	3.8	871
10	Lactate in the brain: from metabolic end-product to signalling molecule. Nature Reviews Neuroscience, 2018, 19, 235-249.	4.9	724
11	Activity-dependent regulation of energy metabolism by astrocytes: An update. Glia, 2007, 55, 1251-1262.	2.5	696
12	Cellular mechanisms of brain energy metabolism and their relevance to functional brain imaging. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1155-1163.	1.8	644
13	Measurement of the integral refractive index and dynamic cell morphometry of living cells with digital holographic microscopy. Optics Express, 2005, 13, 9361.	1.7	641
14	Genome-wide association study identifies eight risk loci and implicates metabo-psychiatric origins for anorexia nervosa. Nature Genetics, 2019, 51, 1207-1214.	9.4	641
15	Evidence Supporting the Existence of an Activity-Dependent Astrocyte-Neuron Lactate Shuttle. Developmental Neuroscience, 1998, 20, 291-299.	1.0	610
16	Neuron-glia metabolic coupling and plasticity. Journal of Experimental Biology, 2006, 209, 2304-2311.	0.8	589
17	Sweet Sixteen for ANLS. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1152-1166.	2.4	580
18	Astrocyte-neuron metabolic relationships: for better and for worse. Trends in Neurosciences, 2011, 34, 76-87.	4.2	542

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19	Marker-free phase nanoscopy. <i>Nature Photonics</i> , 2013, 7, 113-117.	15.6	527
20	Aquaporins in Brain: Distribution, Physiology, and Pathophysiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 367-378.	2.4	512
21	In Vivo Evidence for a Lactate Gradient from Astrocytes to Neurons. <i>Cell Metabolism</i> , 2016, 23, 94-102.	7.2	437
22	Significant Locus and Metabolic Genetic Correlations Revealed in Genome-Wide Association Study of Anorexia Nervosa. <i>American Journal of Psychiatry</i> , 2017, 174, 850-858.	4.0	410
23	Methylglyoxal, the dark side of glycolysis. <i>Frontiers in Neuroscience</i> , 2015, 9, 23.	1.4	381
24	Lactate promotes plasticity gene expression by potentiating NMDA signaling in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12228-12233.	3.3	364
25	In Vivo Evidence for Lactate as a Neuronal Energy Source. <i>Journal of Neuroscience</i> , 2011, 31, 7477-7485.	1.7	353
26	Selective Distribution of Lactate Dehydrogenase Isoenzymes in Neurons and Astrocytes of Human Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 1079-1089.	2.4	351
27	Comparison of Lactate Transport in Astroglial Cells and Monocarboxylate Transporter 1 (MCT 1) Expressing <i>Xenopus laevis</i> Oocytes. <i>Journal of Biological Chemistry</i> , 1997, 272, 30096-30102.	1.6	320
28	The role of astroglia in neuroprotection. <i>Dialogues in Clinical Neuroscience</i> , 2009, 11, 281-295.	1.8	311
29	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
30	Expression of monocarboxylate transporter mRNAs in mouse brain: Support for a distinct role of lactate as an energy substrate for the neonatal vs. adult brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 3990-3995.	3.3	264
31	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
32	Characterization of the glycogenolysis elicited by vasoactive intestinal peptide, noradrenaline and adenosine in primary cultures of mouse cerebral cortical astrocytes. <i>Brain Research</i> , 1991, 563, 227-233.	1.1	252
33	Amyloid- β^2 Aggregates Cause Alterations of Astrocytic Metabolic Phenotype: Impact on Neuronal Viability. <i>Journal of Neuroscience</i> , 2010, 30, 3326-3338.	1.7	252
34	Neuroenergetics: Calling Upon Astrocytes to Satisfy Hungry Neurons. <i>Neuroscientist</i> , 2004, 10, 53-62.	2.6	230
35	Immunohistochemical distribution of pro-somatostatin-related peptides in cerebral cortex. <i>Brain Research</i> , 1983, 262, 344-351.	1.1	216
36	Cell-specific localization of monocarboxylate transporters, MCT1 and MCT2, in the adult mouse brain revealed by double immunohistochemical labeling and confocal microscopy. <i>Neuroscience</i> , 2000, 100, 617-627.	1.1	207

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37	Evidence for a Susceptibility Gene for Anorexia Nervosa on Chromosome 1. <i>American Journal of Human Genetics</i> , 2002, 70, 787-792.	2.6	199
38	Neuroprotective Role of Lactate after Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1780-1789.	2.4	197
39	Peripuberty stress leads to abnormal aggression, altered amygdala and orbitofrontal reactivity and increased prefrontal MAOA gene expression. <i>Translational Psychiatry</i> , 2013, 3, e216-e216.	2.4	196
40	Glutamate Uptake Stimulates Na ⁺ ,K ⁺ -ATPase Activity in Astrocytes via Activation of a Distinct Subunit Highly Sensitive to Ouabain. <i>Journal of Neurochemistry</i> , 1997, 69, 2132-2137.	2.1	190
41	Neurotransmitters Regulate Energy Metabolism in Astrocytes: Implications for the Metabolic Trafficking between Neural Cells. <i>Developmental Neuroscience</i> , 1993, 15, 306-312.	1.0	185
42	Noninvasive characterization of the fission yeast cell cycle by monitoring dry mass with digital holographic microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 034049.	1.4	181
43	The distribution and morphological characteristics of the intracortical VIP-positive cell: An immunohistochemical analysis. <i>Brain Research</i> , 1984, 292, 269-282.	1.1	179
44	Simultaneous cell morphometry and refractive index measurement with dual-wavelength digital holographic microscopy and dye-enhanced dispersion of perfusion medium. <i>Optics Letters</i> , 2008, 33, 744.	1.7	179
45	VIP and noradrenaline act synergistically to increase cyclic AMP in cerebral cortex. <i>Nature</i> , 1984, 308, 280-282.	13.7	178
46	Lactate and pyruvate promote oxidative stress resistance through hormetic ROS signaling. <i>Cell Death and Disease</i> , 2019, 10, 653.	2.7	177
47	Fluoxetine regulates the expression of neurotrophic/growth factors and glucose metabolism in astrocytes. <i>Psychopharmacology</i> , 2011, 216, 75-84.	1.5	176
48	Astrocyte-Specific Expression of Aquaporin-9 in Mouse Brain is Increased after Transient Focal Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 477-482.	2.4	174
49	Early Cell Death Detection with Digital Holographic Microscopy. <i>PLoS ONE</i> , 2012, 7, e30912.	1.1	174
50	MCT2 is a Major Neuronal Monocarboxylate Transporter in the Adult Mouse Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 586-595.	2.4	171
51	Comparative study of human erythrocytes by digital holographic microscopy, confocal microscopy, and impedance volume analyzer. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 895-903.	1.1	171
52	Food for Thought: Challenging the Dogmas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1282-1286.	2.4	169
53	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
54	TORC1 is a calcium- and cAMP-sensitive coincidence detector involved in hippocampal long-term synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4700-4705.	3.3	168

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55	A β 242 Neurotoxicity Is Mediated by Ongoing Nucleated Polymerization Process Rather than by Discrete A β 242 Species. <i>Journal of Biological Chemistry</i> , 2011, 286, 8585-8596.	1.6	168
56	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
57	Immunohistochemical distribution of pro-somatostatin-related peptides in hippocampus. <i>Neuroscience Letters</i> , 1982, 34, 137-142.	1.0	164
58	Pro-inflammatory cytokines induce the transcription factors C/EBP β and C/EBP δ in astrocytes. , 2000, 29, 91-97.		164
59	Astrocytes generate Na ⁺ -mediated metabolic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14937-14942.	3.3	164
60	Role of glutamate in neuron-glia metabolic coupling. <i>American Journal of Clinical Nutrition</i> , 2009, 90, 875S-880S.	2.2	164
61	Channel-Mediated Lactate Release by K ⁺ -Stimulated Astrocytes. <i>Journal of Neuroscience</i> , 2015, 35, 4168-4178.	1.7	163
62	Cerebral metabolic effects of exogenous lactate supplementation on the injured human brain. <i>Intensive Care Medicine</i> , 2014, 40, 412-421.	3.9	151
63	Astrocytic β -adrenergic receptors mediate hippocampal long-term memory consolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8526-8531.	3.3	151
64	Cellular bases of functional brain imaging: insights from neuron-glia metabolic coupling ¹¹ Published on the World Wide Web on 12 October 2000.. <i>Brain Research</i> , 2000, 886, 108-112.	1.1	146
65	Distribution of Aquaporin 9 in the adult rat brain: Preferential expression in catecholaminergic neurons and in glial cells. <i>Neuroscience</i> , 2004, 128, 27-38.	1.1	140
66	Review of quantitative phase-digital holographic microscopy: promising novel imaging technique to resolve neuronal network activity and identify cellular biomarkers of psychiatric disorders. <i>Neurophotonics</i> , 2014, 1, 020901.	1.7	139
67	Functional receptors for vasoactive intestinal polypeptide in cultured astroglia from neonatal rat brain. <i>Regulatory Peptides</i> , 1983, 6, 71-80.	1.9	138
68	Brain Lactate Metabolism in Humans With Subarachnoid Hemorrhage. <i>Stroke</i> , 2012, 43, 1418-1421.	1.0	130
69	A quantitative analysis of glutamate-regulated Na ⁺ dynamics in mouse cortical astrocytes: implications for cellular bioenergetics. <i>European Journal of Neuroscience</i> , 2000, 12, 3843-3853.	1.2	129
70	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
71	CCAAT/Enhancer-binding Protein Family Members Recruit the Coactivator CREB-binding Protein and Trigger Its Phosphorylation. <i>Journal of Biological Chemistry</i> , 2003, 278, 36959-36965.	1.6	122
72	Modulation of astrocytic metabolic phenotype by proinflammatory cytokines. <i>Glia</i> , 2008, 56, 975-989.	2.5	116

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73	Astrocytes Couple Synaptic Activity to Glucose Utilization in the Brain. <i>Physiology</i> , 1999, 14, 177-182.	1.6	114
74	Dissecting the Shared Genetic Architecture of Suicide Attempt, Psychiatric Disorders, and Known Risk Factors. <i>Biological Psychiatry</i> , 2022, 91, 313-327.	0.7	114
75	Determination of Transmembrane Water Fluxes in Neurons Elicited by Glutamate Ionotropic Receptors and by the Cotransporters KCC2 and NKCC1: A Digital Holographic Microscopy Study. <i>Journal of Neuroscience</i> , 2011, 31, 11846-11854.	1.7	113
76	Monoamines and peptides in cerebral cortex “contrasting principles of cortical organization. <i>Trends in Neurosciences</i> , 1983, 6, 146-151.	4.2	111
77	Peripheral administration of lactate produces antidepressant-like effects. <i>Molecular Psychiatry</i> , 2018, 23, 392-399.	4.1	111
78	Excitatory Amino Acids Stimulate Aerobic Glycolysis in Astrocytes via an Activation of the Na ⁺ /K ⁺ ATPase. <i>Developmental Neuroscience</i> , 1996, 18, 336-342.	1.0	110
79	Role of the Glyoxalase System in Astrocyte-Mediated Neuroprotection. <i>Journal of Neuroscience</i> , 2011, 31, 18338-18352.	1.7	106
80	New Evidence of Neuroprotection by Lactate after Transient Focal Cerebral Ischaemia: Extended Benefit after Intracerebroventricular Injection and Efficacy of Intravenous Administration. <i>Cerebrovascular Diseases</i> , 2012, 34, 329-335.	0.8	106
81	Label-Free Cytotoxicity Screening Assay by Digital Holographic Microscopy. <i>Assay and Drug Development Technologies</i> , 2013, 11, 101-107.	0.6	105
82	In vivo reprogramming of wound-resident cells generates skin epithelial tissue. <i>Nature</i> , 2018, 561, 243-247.	13.7	104
83	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
84	Alzheimer's disease: the amyloid hypothesis and the Inverse Warburg effect. <i>Frontiers in Physiology</i> , 2014, 5, 522.	1.3	103
85	Cellular perspectives on the glutamate “monoamine interactions in limbic lobe structures and their relevance for some psychiatric disorders. <i>Progress in Neurobiology</i> , 2002, 67, 173-202.	2.8	102
86	NEUROSCIENCE: Let There Be (NADH) Light. <i>Science</i> , 2004, 305, 50-52.	6.0	97
87	Learning-Induced Gene Expression in the Hippocampus Reveals a Role of Neuron -Astrocyte Metabolic Coupling in Long Term Memory. <i>PLoS ONE</i> , 2015, 10, e0141568.	1.1	95
88	VIP and PACAP potentiate the action of glutamate on BDNF expression in mouse cortical neurones. <i>European Journal of Neuroscience</i> , 1998, 10, 272-280.	1.2	94
89	An immunohistochemical study of pro-somatostatin-derived peptides in the human brain. <i>Neuroscience</i> , 1987, 22, 781-800.	1.1	93
90	Glutamate Transport Decreases Mitochondrial pH and Modulates Oxidative Metabolism in Astrocytes. <i>Journal of Neuroscience</i> , 2011, 31, 3550-3559.	1.7	93

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91	Noradrenaline- and vasoactive intestinal peptide-containing neuronal systems in neocortex: Functional convergence with contrasting morphology. <i>Neuroscience</i> , 1988, 24, 367-378.	1.1	92
92	Spatial analysis of erythrocyte membrane fluctuations by digital holographic microscopy. <i>Blood Cells, Molecules, and Diseases</i> , 2009, 42, 228-232.	0.6	92
93	Disrupting astrocyte-neuron lactate transfer persistently reduces conditioned responses to cocaine. <i>Molecular Psychiatry</i> , 2016, 21, 1070-1076.	4.1	89
94	Neuron-glia metabolic coupling and plasticity. <i>Experimental Physiology</i> , 2011, 96, 407-410.	0.9	88
95	Cell morphology and intracellular ionic homeostasis explored with a multimodal approach combining epifluorescence and digital holographic microscopy. <i>Journal of Biophotonics</i> , 2010, 3, 432-436.	1.1	87
96	Noradrenaline Modulates Glutamate-mediated Neurotransmission in the Rat Basolateral Amygdala In Vitro. <i>European Journal of Neuroscience</i> , 1997, 9, 1356-1364.	1.2	86
97	Multi-timescale Modeling of Activity-Dependent Metabolic Coupling in the Neuron-Glia-Vasculature Ensemble. <i>PLoS Computational Biology</i> , 2015, 11, e1004036.	1.5	86
98	Purification and Cytochemical Identification of Neuronal and Non-Neuronal Cells in Chick Embryo Retina Cultures. <i>Developmental Neuroscience</i> , 1982, 5, 27-39.	1.0	85
99	Deletion of CREB-Regulated Transcription Coactivator 1 Induces Pathological Aggression, Depression-Related Behaviors, and Neuroplasticity Genes Dysregulation in Mice. <i>Biological Psychiatry</i> , 2012, 72, 528-536.	0.7	85
100	Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues. <i>Journal of Comparative Neurology</i> , 2016, 524, 23-38.	0.9	85
101	Effects of chronic lithium treatment on dopamine receptors in the rat corpus striatum. II. No effect on denervation or neuroleptic-induced supersensitivity. <i>Brain Research</i> , 1982, 232, 401-412.	1.1	81
102	Autoradiographic mapping of [mono[125I]iodo-Tyr10, MetO17]vasoactive intestinal peptide binding sites in the rat brain. <i>Neuroscience</i> , 1987, 23, 539-565.	1.1	81
103	Local Injection of Antisense Oligonucleotides Targeted to the Glial Glutamate Transporter GLAST Decreases the Metabolic Response to Somatosensory Activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 404-412.	2.4	80
104	Feeding active neurons: (re)emergence of a nursing role for astrocytes. <i>Journal of Physiology (Paris)</i> , 2002, 96, 273-282.	2.1	80
105	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
106	Protein targeting to glycogen mRNA expression is stimulated by noradrenaline in mouse cortical astrocytes. , 2000, 30, 382-391.		79
107	Gangliosides: Treatment Avenues in Neurodegenerative Disease. <i>Frontiers in Neurology</i> , 2019, 10, 859.	1.1	79
108	Astrocytes: New Targets for the Treatment of Neurodegenerative Diseases. <i>Current Pharmaceutical Design</i> , 2015, 21, 3570-3581.	0.9	79

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109	Dopaminergic supersensitivity induced by denervation and chronic receptor blockade is additive. <i>Nature</i> , 1982, 299, 72-74.	13.7	78
110	Sleep deprivation modulates brain mRNAs encoding genes of glycogen metabolism. <i>European Journal of Neuroscience</i> , 2002, 16, 1163-1167.	1.2	76
111	Astrocytes as Key Regulators of Brain Energy Metabolism: New Therapeutic Perspectives. <i>Frontiers in Physiology</i> , 2021, 12, 825816.	1.3	76
112	Cerebral Extracellular Lactate Increase is Predominantly Nonischemic in Patients with Severe Traumatic Brain Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1815-1822.	2.4	75
113	L-Lactate Regulates the Expression of Synaptic Plasticity and Neuroprotection Genes in Cortical Neurons: A Transcriptome Analysis. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 375.	1.4	74
114	Deciphering neuron-glia compartmentalization in cortical energy metabolism. <i>Frontiers in Neuroenergetics</i> , 2009, 1, 4.	5.3	73
115	The Challenge of Connecting the Dots in the B.R.A.I.N.. <i>Neuron</i> , 2013, 80, 270-274.	3.8	73
116	Relationship between L-glutamate-regulated intracellular Na ⁺ dynamics and ATP hydrolysis in astrocytes. <i>Journal of Neural Transmission</i> , 2005, 112, 77-85.	1.4	72
117	Measurement of absolute cell volume, osmotic membrane water permeability, and refractive index of transmembrane water and solute flux by digital holographic microscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 036007.	1.4	72
118	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
119	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
120	Regulation of energy metabolism by neurotransmitters in astrocytes in primary culture and in an immortalized cell line. , 1997, 21, 74-83.		69
121	Glucocorticoids modulate neurotransmitter-induced glycogen metabolism in cultured cortical astrocytes. <i>Journal of Neurochemistry</i> , 2004, 88, 900-908.	2.1	69
122	How to balance the brain energy budget while spending glucose differently. <i>Journal of Physiology</i> , 2003, 546, 325-325.	1.3	69
123	Labeled Acetate as a Marker of Astrocytic Metabolism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1668-1674.	2.4	69
124	Effects of chronic lithium treatment on dopamine receptors in the rat corpus striatum. I. Locomotor activity and behavioral supersensitivity. <i>Brain Research</i> , 1982, 232, 391-400.	1.1	67
125	Differential messenger RNA distribution of lactate dehydrogenase LDH-1 and LDH-5 isoforms in the rat brain. <i>Neuroscience</i> , 2000, 96, 619-625.	1.1	67
126	Regulation of neuron-astrocyte metabolic coupling across the sleep-wake cycle. <i>Neuroscience</i> , 2016, 323, 135-156.	1.1	67

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127	Cloning, localization and induction of mouse brain glycogen synthase. <i>Molecular Brain Research</i> , 1996, 38, 191-199.	2.5	66
128	The HDAC inhibitor SAHA improves depressive-like behavior of CRTCL1-deficient mice: Possible relevance for treatment-resistant depression. <i>Neuropharmacology</i> , 2016, 107, 111-121.	2.0	66
129	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
130	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
131	Evidence for the role of EP HX2 gene variants in anorexia nervosa. <i>Molecular Psychiatry</i> , 2014, 19, 724-732.	4.1	65
132	Sustained sleep fragmentation affects brain temperature, food intake and glucose tolerance in mice. <i>Journal of Sleep Research</i> , 2013, 22, 3-12.	1.7	64
133	3D cellular reconstruction of cortical glia and parenchymal morphometric analysis from Serial Block-Face Electron Microscopy of juvenile rat. <i>Progress in Neurobiology</i> , 2019, 183, 101696.	2.8	64
134	The Strategic Location of Glycogen and Lactate: From Body Energy Reserve to Brain Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 82.	1.8	64
135	Sodium signaling and astrocyte energy metabolism. <i>Glia</i> , 2016, 64, 1667-1676.	2.5	61
136	VIP neurons in the cerebral cortex. <i>Trends in Pharmacological Sciences</i> , 1990, 11, 250-254.	4.0	60
137	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
138	Reactive Oxygen Species: Beyond Their Reactive Behavior. <i>Neurochemical Research</i> , 2021, 46, 77-87.	1.6	60
139	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
140	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
141	Inadequate brain glycogen or sleep increases spreading depression susceptibility. <i>Annals of Neurology</i> , 2018, 83, 61-73.	2.8	58
142	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
143	Expression of the monocarboxylate transporter MCT1 in the adult human brain cortex. <i>Brain Research</i> , 2006, 1070, 65-70.	1.1	57
144	Association study of 182 candidate genes in anorexia nervosa. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2010, 153B, 1070-1080.	1.1	57

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145	Patterns of calcium-binding proteins support parallel and hierarchical organization of human auditory areas. <i>European Journal of Neuroscience</i> , 2003, 17, 397-410.	1.2	56
146	Differential effects of pro- and anti-inflammatory cytokines alone or in combinations on the metabolic profile of astrocytes. <i>Journal of Neurochemistry</i> , 2011, 116, 564-576.	2.1	55
147	Astrocyte-neuron co-culture on microchips based on the model of SOD mutation to mimic ALS. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 964-975.	0.6	54
148	Regulation of Glycogen Metabolism in Astrocytes: Physiological, Pharmacological, and Pathological Aspects. , 1993, , 243-265.		54
149	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
150	Prostaglandins and the synergism between VIP and noradrenaline in the cerebral cortex. <i>Nature</i> , 1987, 328, 637-640.	13.7	51
151	Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. <i>Cell Research</i> , 2019, 29, 804-819.	5.7	51
152	VIP and PACAP in the CNS: Regulators of Glial Energy Metabolism and Modulators of Glutamatergic Signaling. <i>Annals of the New York Academy of Sciences</i> , 1998, 865, 213-225.	1.8	50
153	Vasoactive Intestinal Peptide and Pituitary Adenylate Cyclase-Activating Polypeptide Potentiate Ca^{2+} Expression Induced by Glutamate in Cultured Cortical Neurons. <i>Journal of Neurochemistry</i> , 1995, 65, 1-9.	2.1	50
154	International Brain Initiative: An Innovative Framework for Coordinated Global Brain Research Efforts. <i>Neuron</i> , 2020, 105, 212-216.	3.8	50
155	Transmitter mediated regulation of energy metabolism in nervous tissue at the cellular level. <i>Neurochemistry International</i> , 1986, 9, 1-10.	1.9	49
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