

# 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	Common Genetic Variation and Age of Onset of Anorexia Nervosa. <i>Biological Psychiatry Global Open Science</i> , 2022, 2, 368-378.	1.0	10
2	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
3	Representing stimulus information in an energy metabolism pathway. <i>Journal of Theoretical Biology</i> , 2022, 540, 111090.	0.8	2
4	Shared genetic risk between eating disorder and substance use related phenotypes: Evidence from genome-wide association studies. <i>Addiction Biology</i> , 2021, 26, e12880.	1.4	28
5	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.	7.1	1,098
6	Ganglioside GM1 Targets Astrocytes to Stimulate Cerebral Energy Metabolism. <i>Frontiers in Pharmacology</i> , 2021, 12, 653842.	1.6	16
7	Hydroxycarboxylic Acid Receptor 1 and Neuroprotection in a Mouse Model of Cerebral Ischemia-Reperfusion. <i>Frontiers in Physiology</i> , 2021, 12, 689239.	1.3	7
8	Role of adult hippocampal neurogenesis in the antidepressant actions of lactate. <i>Molecular Psychiatry</i> , 2021, 26, 6723-6735.	4.1	27
9	Interoception Disorder and Insular Cortex Abnormalities in Schizophrenia: A New Perspective Between Psychoanalysis and Neuroscience. <i>Frontiers in Psychology</i> , 2021, 12, 628355.	1.1	4
10	l-Lactate: Food for Thoughts, Memory and Behavior. <i>Metabolites</i> , 2021, 11, 548.	1.3	18
11	Digital Reconstruction of the Neuro-Glia-Vascular Architecture. <i>Cerebral Cortex</i> , 2021, 31, 5686-5703.	1.6	30
12	InShaDe: Invariant Shape Descriptors for visual 2D and 3D cellular and nuclear shape analysis and classification. <i>Computers and Graphics</i> , 2021, 98, 105-125.	1.4	10
13	Brain glycogen metabolism: A possible link between sleep disturbances, headache and depression. <i>Sleep Medicine Reviews</i> , 2021, 59, 101449.	3.8	20
14	Reactive Oxygen Species: Beyond Their Reactive Behavior. <i>Neurochemical Research</i> , 2021, 46, 77-87.	1.6	60
15	Roadmap on Digital Holography-Based Quantitative Phase Imaging. <i>Journal of Imaging</i> , 2021, 7, 252.	1.7	37
16	Astrocytes as Key Regulators of Brain Energy Metabolism: New Therapeutic Perspectives. <i>Frontiers in Physiology</i> , 2021, 12, 825816.	1.3	76
17	Excitation states of metabolic networks predict dose-response fingerprinting and ligand pulse phase signalling. <i>Journal of Theoretical Biology</i> , 2020, 487, 110123.	0.8	3
18	Lactate measurement by neurochemical profiling in the dorsolateral prefrontal cortex at 7T: accuracy, precision, and relaxation times. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1895-1908.	1.9	10

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19	Gut microbiota modulates expression of genes involved in the astrocyte-neuron lactate shuttle in the hippocampus. <i>European Neuropsychopharmacology</i> , 2020, 41, 152-159.	0.3	17
20	Virtual reality framework for editing and exploring medial axis representations of nanometric scale neural structures. <i>Computers and Graphics</i> , 2020, 91, 12-24.	1.4	9
21	From the Principle of Inertia to the Death Drive: The Influence of the Second Law of Thermodynamics on the Freudian Theory of the Psychological Apparatus. <i>Frontiers in Psychology</i> , 2020, 11, 325.	1.1	10
22	Extended preclinical investigation of lactate for neuroprotection after ischemic stroke. <i>Clinical and Translational Neuroscience</i> , 2020, 4, 2514183X2090457.	0.4	15
23	International Brain Initiative: An Innovative Framework for Coordinated Global Brain Research Efforts. <i>Neuron</i> , 2020, 105, 212-216.	3.8	50
24	Forget About Electron Micrographs: A Novel Guide for Using for Quantitative Analysis of Dense Reconstructions. <i>Neuroinformatics</i> , 2020, , 263-304.	0.2	2
25	Le symptôme entre neurosciences et psychanalyse. <i>Actualités de l'au-delà du principe de plaisir. Figures De La Psychanalyse</i> , 2020, n° 40, 101-110.	0.0	0
26	How lactate links cannabis to social behaviour. <i>Nature</i> , 2020, 583, 526-527.	13.7	2
27	Genome-wide association study identifies eight risk loci and implicates metabo-psychiatric origins for anorexia nervosa. <i>Nature Genetics</i> , 2019, 51, 1207-1214.	9.4	641
28	Interactive Volumetric Visual Analysis of Glycogen-derived Energy Absorption in Nanometric Brain Structures. <i>Computer Graphics Forum</i> , 2019, 38, 427-439.	1.8	10
29	Shape analysis of 3D nanoscale reconstructions of brain cell nuclear envelopes by implicit and explicit parametric representations. <i>Computers and Graphics: X</i> , 2019, 1, 100004.	0.6	4
30	Gangliosides: Treatment Avenues in Neurodegenerative Disease. <i>Frontiers in Neurology</i> , 2019, 10, 859.	1.1	79
31	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
32	Lactate and pyruvate promote oxidative stress resistance through hormetic ROS signaling. <i>Cell Death and Disease</i> , 2019, 10, 653.	2.7	177
33	Lactate enhances NMDA receptor responses via two distinct mechanisms. <i>IBRO Reports</i> , 2019, 6, S397-S398.	0.3	0
34	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
35	Associations Between Attention-Deficit/Hyperactivity Disorder and Various Eating Disorders: A Swedish Nationwide Population Study Using Multiple Genetically Informative Approaches. <i>Biological Psychiatry</i> , 2019, 86, 577-586.	0.7	43
36	WHOLE GENOME SEQUENCE ANALYSIS OF A COUSIN PAIR WITH RESTRICTING ANOREXIA NERVOSA. <i>European Neuropsychopharmacology</i> , 2019, 29, S977-S978.	0.3	3

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37	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
38	A Method for 3D Reconstruction and Virtual Reality Analysis of Glial and Neuronal Cells. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	4
39	An investigation of indirect effects of personality features on anorexia nervosa severity through interoceptive dysfunction in individuals with lifetime anorexia nervosa diagnoses. <i>International Journal of Eating Disorders</i> , 2019, 52, 200-205.	2.1	12
40	Exploring living neuronal network dynamics and homeostasis with multimodal digital holographic microscopy: towards identifying early biomarkers for neurodevelopmental disorders. , 2019, , .		0
41	Virtual environment for processing medial axis representations of 3D nanoscale reconstructions of brain cellular structures. , 2019, , .		2
42	Hypocretin/orexin deficiency decreases cocaine abuse liability. <i>Neuropharmacology</i> , 2018, 133, 395-403.	2.0	33
43	Lactate in the brain: from metabolic end-product to signalling molecule. <i>Nature Reviews Neuroscience</i> , 2018, 19, 235-249.	4.9	724
44	Abstractocyte: A Visual Tool for Exploring Nanoscale Astroglial Cells. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2018, 24, 853-861.	2.9	36
45	Impact of MCT1 Haploinsufficiency on the Mouse Retina. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 375-380.	0.8	5
46	Peripheral administration of lactate produces antidepressant-like effects. <i>Molecular Psychiatry</i> , 2018, 23, 392-399.	4.1	111
47	Inadequate brain glycogen or sleep increases spreading depression susceptibility. <i>Annals of Neurology</i> , 2018, 83, 61-73.	2.8	58
48	Exploring cell structure, dynamics and homeostasis with a multimodal microscopy approach based on digital holographic microscopy: towards identifying early biomarkers of cell viability and cytotoxicity. , 2018, , .		0
49	The Epistemological Foundations of Freud's Energetics Model. <i>Frontiers in Psychology</i> , 2018, 9, 1861.	1.1	8
50	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
51	A Process for Digitizing and Simulating Biologically Realistic Oligocellular Networks Demonstrated for the Neuro-Glio-Vascular Ensemble. <i>Frontiers in Neuroscience</i> , 2018, 12, 664.	1.4	25
52	Hypertonic Lactate to Improve Cerebral Perfusion and Glucose Availability After Acute Brain Injury*. <i>Critical Care Medicine</i> , 2018, 46, 1649-1655.	0.4	49
53	In vivo reprogramming of wound-resident cells generates skin epithelial tissue. <i>Nature</i> , 2018, 561, 243-247.	13.7	104
54	Norepinephrine stimulates glycogenolysis in astrocytes to fuel neurons with lactate. <i>PLoS Computational Biology</i> , 2018, 14, e1006392.	1.5	47

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55	GLAM: Glycogen-derived Lactate Absorption Map for visual analysis of dense and sparse surface reconstructions of rodent brain structures on desktop systems and virtual environments. <i>Computers and Graphics</i> , 2018, 74, 85-98.	1.4	17
56	At the Heart of Genome Editing and Cardiovascular Diseases. <i>Circulation Research</i> , 2018, 123, 221-223.	2.0	6
57	Neuroscience without borders: Preserving the history of neuroscience. <i>European Journal of Neuroscience</i> , 2018, 48, 2099-2109.	1.2	5
58	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
59	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
60	A preclinical model for identifying rats at risk of alcohol use disorder. <i>Scientific Reports</i> , 2017, 7, 9454.	1.6	29
61	Gender-specific alteration of energy balance and circadian locomotor activity in the <i>Crtc1</i> knockout mouse model of depression. <i>Translational Psychiatry</i> , 2017, 7, 1269.	2.4	12
62	A Historical Review of Diachrony and Semantic Dimensions of Trace in Neurosciences and Lacanian Psychoanalysis. <i>Frontiers in Psychology</i> , 2017, 8, 734.	1.1	2
63	Noradrenergic System and Memory. , 2017, , 183-200.		2
64	Plasticité neuronale: les traces et leurs destins. , 2017, , 19-46.		4
65	Glutamate Cysteine Ligase Modulatory Subunit Knockout Mouse Shows Normal Insulin Sensitivity but Reduced Liver Glycogen Storage. <i>Frontiers in Physiology</i> , 2016, 7, 142.	1.3	5
66	A Motion Capture Study to Measure the Feeling of Synchrony in Romantic Couples and in Professional Musicians. <i>Frontiers in Psychology</i> , 2016, 7, 1673.	1.1	10
67	Involvement of the agmatinergetic system in the depressive-like phenotype of the <i>Crtc1</i> knockout mouse model of depression. <i>Translational Psychiatry</i> , 2016, 6, e852-e852.	2.4	48
68	Adding large EM stack support. , 2016, , .		3
69	A Role for Lactate in the Consolidation of Drug-Related Associative Memories. <i>Biological Psychiatry</i> , 2016, 79, 875-877.	0.7	6
70	The HDAC inhibitor SAHA improves depressive-like behavior of <i>CRTC1</i> -deficient mice: Possible relevance for treatment-resistant depression. <i>Neuropharmacology</i> , 2016, 107, 111-121.	2.0	66
71	Protein targeting to glycogen is a master regulator of glycogen synthesis in astrocytes. <i>IBRO Reports</i> , 2016, 1, 46-53.	0.3	18
72	Lactate release from astrocytes to neurons contributes to cocaine memory formation. <i>BioEssays</i> , 2016, 38, 1266-1273.	1.2	15

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73	Sleep fragmentation alters brain energy metabolism without modifying hippocampal electrophysiological response to novelty exposure. <i>Journal of Sleep Research</i> , 2016, 25, 583-590.	1.7	13
74	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
75	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. <i>Nature</i> , 2016, 540, 144-149.	13.7	906
76	Astrocytic $\text{IP}_2$ -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
77	Sodium signaling and astrocyte energy metabolism. <i>Glia</i> , 2016, 64, 1667-1676.	2.5	61
78	Imaging brain aerobic glycolysis as a marker of synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7015-7016.	3.3	20
79	Dysregulation of soluble epoxide hydrolase and lipidomic profiles in anorexia nervosa. <i>Molecular Psychiatry</i> , 2016, 21, 537-546.	4.1	49
80	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, Spc1-Spc1.	0.9	3
81	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
82	Regulation of neuron-astrocyte metabolic coupling across the sleep-wake cycle. <i>Neuroscience</i> , 2016, 323, 135-156.	1.1	67
83	In Vivo Evidence for a Lactate Gradient from Astrocytes to Neurons. <i>Cell Metabolism</i> , 2016, 23, 94-102.	7.2	437
84	Disrupting astrocyte-neuron lactate transfer persistently reduces conditioned responses to cocaine. <i>Molecular Psychiatry</i> , 2016, 21, 1070-1076.	4.1	89
85	The Subjective Sensation of Synchrony: An Experimental Study. <i>PLoS ONE</i> , 2016, 11, e0147008.	1.1	17
86	Brain Energy and Metabolism. , 2016, , 1879-1909.		1
87	Sustained Sleep Fragmentation Induces Sleep Homeostasis in Mice. <i>Sleep</i> , 2015, 38, 567-579.	0.6	24
88	Association of PCK1 with Body Mass Index and Other Metabolic Features in Patients With Psychotropic Treatments. <i>Journal of Clinical Psychopharmacology</i> , 2015, 35, 544-552.	0.7	5
89	Embodied memory: unconscious smiling modulates emotional evaluation of episodic memories. <i>Frontiers in Psychology</i> , 2015, 6, 650.	1.1	15
90	A New Outlook on Mental Illnesses: Glial Involvement Beyond the Glue. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 468.	1.8	49

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91	Methylglyoxal, the dark side of glycolysis. <i>Frontiers in Neuroscience</i> , 2015, 9, 23.	1.4	381
92	Goals in Nutrition Science 2015–2020. <i>Frontiers in Nutrition</i> , 2015, 2, 26.	1.6	31
93	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
94	A Cellular Perspective on Brain Energy Metabolism and Functional Imaging. <i>Neuron</i> , 2015, 86, 883-901.	3.8	871
95	Metabolic gene expression changes in astrocytes in Multiple Sclerosis cerebral cortex are indicative of immune-mediated signaling. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 313-325.	2.0	39
96	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
97	Channel-Mediated Lactate Release by K <sup>+</sup> -Stimulated Astrocytes. <i>Journal of Neuroscience</i> , 2015, 35, 4168-4178.	1.7	163
98	Impact of HSD11B1 polymorphisms on BMI and components of the metabolic syndrome in patients receiving psychotropic treatments. <i>Pharmacogenetics and Genomics</i> , 2015, 25, 246-258.	0.7	12
99	Complex regulation of CREB-binding protein by homeodomain-interacting protein kinase 2. <i>Cellular Signalling</i> , 2015, 27, 2252-2260.	1.7	9
100	Glycogen metabolism and the homeostatic regulation of sleep. <i>Metabolic Brain Disease</i> , 2015, 30, 263-279.	1.4	49
101	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
102	Influence of MCHR2 and MCHR2-AS1 Genetic Polymorphisms on Body Mass Index in Psychiatric Patients and In Population-Based Subjects with Present or Past Atypical Depression. <i>PLoS ONE</i> , 2015, 10, e0139155.	1.1	16
103	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
104	Astrocytes: New Targets for the Treatment of Neurodegenerative Diseases. <i>Current Pharmaceutical Design</i> , 2015, 21, 3570-3581.	0.9	79
105	The human CFTR protein expressed in CHO cells activates an aquaporin 3 in a cAMP dependent pathway: study by Digital Holographic Microscopy. <i>Journal of Cell Science</i> , 2014, 127, 546-56.	1.2	20
106	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
107	High throughput second harmonic imaging for label-free biological applications. <i>Optics Express</i> , 2014, 22, 31102.	1.7	43
108	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

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109	Characterization of genetic variation in the VGLL4 gene in anorexia nervosa. <i>Psychiatric Genetics</i> , 2014, 24, 183-184.	0.6	8
110	The role of leptin, melanocortin, and neurotrophin system genes on body weight in anorexia nervosa and bulimia nervosa. <i>Journal of Psychiatric Research</i> , 2014, 55, 77-86.	1.5	25
111	Cerebral metabolic effects of exogenous lactate supplementation on the injured human brain. <i>Intensive Care Medicine</i> , 2014, 40, 412-421.	3.9	151
112	Synaptic Plasticity and the Warburg Effect. <i>Cell Metabolism</i> , 2014, 19, 4-5.	7.2	17
113	Control of Mitochondrial pH by Uncoupling Protein 4 in Astrocytes Promotes Neuronal Survival. <i>Journal of Biological Chemistry</i> , 2014, 289, 31014-31028.	1.6	26
114	Evidence for the role of EP HX2 gene variants in anorexia nervosa. <i>Molecular Psychiatry</i> , 2014, 19, 724-732.	4.1	65
115	Hypertonic lactate and the injured brain: facts and the potential for positive clinical implications. <i>Intensive Care Medicine</i> , 2014, 40, 920-921.	3.9	11
116	Increased activation in Broca's area after cognitive remediation in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2014, 221, 204-209.	0.9	39
117	Alzheimer's disease: the amyloid hypothesis and the Inverse Warburg effect. <i>Frontiers in Physiology</i> , 2014, 5, 522.	1.3	103
118	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
119	Influence of <i>CRTC1</i> Polymorphisms on Body Mass Index and Fat Mass in Psychiatric Patients and the General Adult Population. <i>JAMA Psychiatry</i> , 2013, 70, 1011.	6.0	42
120	The Challenge of Connecting the Dots in the B.R.A.I.N.. <i>Neuron</i> , 2013, 80, 270-274.	3.8	73
121	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
122	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
123	Label-Free Cytotoxicity Screening Assay by Digital Holographic Microscopy. <i>Assay and Drug Development Technologies</i> , 2013, 11, 101-107.	0.6	105
124	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
125	Marker-free phase nanoscopy. <i>Nature Photonics</i> , 2013, 7, 113-117.	15.6	527
126	The psychostimulant modafinil enhances gap junctional communication in cortical astrocytes. <i>Neuropharmacology</i> , 2013, 75, 533-538.	2.0	36



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127	Brain Energy Metabolism. , 2013, , 1591-1620.		44
128	Astrocyte-neuron co-culture on microchips based on the model of SOD mutation to mimic ALS. Integrative Biology (United Kingdom), 2013, 5, 964-975.	0.6	54
129	Super-resolution Phase Tomography. , 2013, , .		0
130	Exploring Neural Cell Dynamics with Digital Holographic Microscopy. , 2013, , .		3
131	Genes Involved in the Astrocyte-Neuron Lactate Shuttle (ANLS) Are Specifically Regulated in Cortical Astrocytes Following Sleep Deprivation in Mice. Sleep, 2013, 36, 1445-1458.	0.6	47
132	Brain Energy Metabolism. , 2013, , 261-284.		24
133	Memory Reconsolidation, Trace Reassociation and the Freudian Unconscious. , 2013, , 293-312.		10
134	Resistance to Diet-Induced Obesity and Associated Metabolic Perturbations in Haploinsufficient Monocarboxylate Transporter 1 Mice. PLoS ONE, 2013, 8, e82505.	1.1	66
135	Regulation of Neurotrophic Factors and Energy Metabolism by Antidepressants in Astrocytes. Current Drug Targets, 2013, 14, 1308-1321.	1.0	31
136	An introduction to the International Brain Research Organization: IBRO's beginnings. Neurology, 2012, 79, 1496-1498.	1.5	1
137	Quantitative measurement of absolute cell volume and intracellular integral refractive index (RI) with dual-wavelength digital holographic microscopy (DHM). Proceedings of SPIE, 2012, , .	0.8	2
138	Brain Lactate Metabolism in Humans With Subarachnoid Hemorrhage. Stroke, 2012, 43, 1418-1421.	1.0	130
139	Digital holographic microscopy applied to neurosciences. , 2012, , .		0
140	New Evidence of Neuroprotection by Lactate after Transient Focal Cerebral Ischaemia: Extended Benefit after Intracerebroventricular Injection and Efficacy of Intravenous Administration. Cerebrovascular Diseases, 2012, 34, 329-335.	0.8	106
141	Sweet Sixteen for ANLS. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1152-1166.	2.4	580
142	Deletion of CREB-Regulated Transcription Coactivator 1 Induces Pathological Aggression, Depression-Related Behaviors, and Neuroplasticity Genes Dysregulation in Mice. Biological Psychiatry, 2012, 72, 528-536.	0.7	85
143	Oligodendroglia metabolically support axons and contribute to neurodegeneration. Nature, 2012, 487, 443-448.	13.7	1,287
144	Early Cell Death Detection with Digital Holographic Microscopy. PLoS ONE, 2012, 7, e30912.	1.1	174

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145	Spatially-Resolved Eigenmode Decomposition of Red Blood Cells Membrane Fluctuations Questions the Role of ATP in Flickering. PLoS ONE, 2012, 7, e40667.	1.1	48
146	Simultaneous Optical Recording in Multiple Cells by Digital Holographic Microscopy of Chloride Current Associated to Activation of the Ligand-Gated Chloride Channel GABAA Receptor. PLoS ONE, 2012, 7, e51041.	1.1	38
147	Measuring biophysical properties of living cells with digital holographic microscopy. , 2011, , .		0
148	<i>In Vivo</i> Evidence for Lactate as a Neuronal Energy Source. Journal of Neuroscience, 2011, 31, 7477-7485.	1.7	353
149	Astrocyte-Neuron Lactate Transport Is Required for Long-Term Memory Formation. Cell, 2011, 144, 810-823.	13.5	1,285
150	Brain Energy Metabolism: Focus on Astrocyte-Neuron Metabolic Cooperation. Cell Metabolism, 2011, 14, 724-738.	7.2	1,727
151	Astrocyte-neuron metabolic relationships: for better and for worse. Trends in Neurosciences, 2011, 34, 76-87.	4.2	542
152	Altered Glycogen Metabolism in Cultured Astrocytes from Mice with Chronic Glutathione Deficit; Relevance for Neuroenergetics in Schizophrenia. PLoS ONE, 2011, 6, e22875.	1.1	22
153	Cell death detection and ionic homeostasis monitoring with digital holographic microscopy. , 2011, , .		2
154	Dual-wavelength Digital Holography for quantification of cell volume and integral refractive index (RI). , 2011, , .		3
155	Differential effects of pro- and anti-inflammatory cytokines alone or in combinations on the metabolic profile of astrocytes. Journal of Neurochemistry, 2011, 116, 564-576.	2.1	55
156	Neuron-glia metabolic coupling and plasticity. Experimental Physiology, 2011, 96, 407-410.	0.9	88
157	Fluoxetine regulates the expression of neurotrophic/growth factors and glucose metabolism in astrocytes. Psychopharmacology, 2011, 216, 75-84.	1.5	176
158	Absence of association between specific common variants of the obesity-related FTO gene and psychological and behavioral eating disorder phenotypes. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2011, 156, 454-461.	1.1	31
159	Association of Candidate Genes with Phenotypic Traits Relevant to Anorexia Nervosa. European Eating Disorders Review, 2011, 19, 487-493.	2.3	30
160	Determination of Transmembrane Water Fluxes in Neurons Elicited by Glutamate Ionotropic Receptors and by the Cotransporters KCC2 and NKCC1: A Digital Holographic Microscopy Study. Journal of Neuroscience, 2011, 31, 11846-11854.	1.7	113
161	Genetic Association of Recovery from Eating Disorders: The Role of GABA Receptor SNPs. Neuropsychopharmacology, 2011, 36, 2222-2232.	2.8	36
162	A $\beta$ <sup>242</sup> Neurotoxicity Is Mediated by Ongoing Nucleated Polymerization Process Rather than by Discrete A $\beta$ <sup>242</sup> Species. Journal of Biological Chemistry, 2011, 286, 8585-8596.	1.6	168

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163	Glutamate Transport Decreases Mitochondrial pH and Modulates Oxidative Metabolism in Astrocytes. <i>Journal of Neuroscience</i> , 2011, 31, 3550-3559.	1.7	93
164	Role of the Glyoxalase System in Astrocyte-Mediated Neuroprotection. <i>Journal of Neuroscience</i> , 2011, 31, 18338-18352.	1.7	106
165	Labeled Acetate as a Marker of Astrocytic Metabolism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1668-1674.	2.4	69
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