Ulrich Dirnagl

List of Publications by Year
in descending order

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398 papers	44,520 citations	1799 103 h-index	2509 196 g-index
429 all docs	429 docs citations	429 times ranked	37946 citing authors

#	Article	IF	Citations
1	Pathobiology of ischaemic stroke: an integrated view. Trends in Neurosciences, 1999, 22, 391-397.	8.6	3,484
2	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. PLoS Biology, 2020, 18, e3000410.	5.6	2,209
3	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. Experimental Physiology, 2020, 105, 1459-1466.	2.0	1,300
4	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. PLoS Biology, 2020, 18, e3000411.	5.6	1,069
5	Near infrared spectroscopy (NIRS): A new tool to study hemodynamic changes during activation of brain function in human adults. Neuroscience Letters, 1993, 154, 101-104.	2.1	1,055
6	Neuroprotection in acute stroke: targeting excitotoxicity, oxidative and nitrosative stress, and inflammation. Lancet Neurology, The, 2016, 15, 869-881.	10.2	842
7	Stroke-induced Immunodeficiency Promotes Spontaneous Bacterial Infections and Is Mediated by Sympathetic Activation Reversal by Poststroke T Helper Cell Type 1â€“like Immunostimulation. Journal of Experimental Medicine, 2003, 198, 725-736.	8.5	813
8	Central nervous system injury-induced immune deficiency syndrome. Nature Reviews Neuroscience, 2005, 6, 775-786.	10.2	776
9	Biomedical research: increasing value, reducing waste. Lancet, The, 2014, 383, 101-104.	13.7	750
10	Ischemic tolerance and endogenous neuroprotection. Trends in Neurosciences, 2003, 26, 248-254.	8.6	743
11	Targeting gene-modified hematopoietic cells to the central nervous system: Use of green fluorescent protein uncovers microglial engraftment. Nature Medicine, 2001, 7, 1356-1361.	30.7	567
12	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research*. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1769-1777.	4.3	546
13	Preconditioning and tolerance against cerebral ischaemia: from experimental strategies to clinical use. Lancet Neurology, The, 2009, 8, 398-412.	10.2	527
14	Cortical spreading ischaemia is a novel process involved in ischaemic damage in patients with aneurysmal subarachnoid haemorrhage. Brain, 2009, 132, 1866-1881.	7.6	479
15	Continuous Measurement of Cerebral Cortical Blood Flow by Laserâ€”Doppler Flowmetry in a Rat Stroke Model. Journal of Cerebral Blood Flow and Metabolism, 1989, 9, 589-596.	4.3	459
16	Erythropoietin Is a Paracrine Mediator of Ischemic Tolerance in the Brain: Evidence from anIn VitroModel. Journal of Neuroscience, 2002, 22, 10291-10301.	3.6	436
17	Estrogen Increases Bone Marrowâ€“Derived Endothelial Progenitor Cell Production and Diminishes Neointima Formation. Circulation, 2003, 107, 3059-3065.	1.6	427
18	Simultaneous Recording of Cerebral Blood Oxygenation Changes during Human Brain Activation by Magnetic Resonance Imaging and Near-Infrared Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 817-826.	4.3	419

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19	Stroke-Induced Immunodepression. Stroke, 2007, 38, 770-773.	2.0	417
20	Bone Marrowâ€“Derived Progenitor Cells Modulate Vascular Reendothelialization and Neointimal Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1567-1572.	2.4	415
21	Stroke and the immune system: from pathophysiology to new therapeutic strategies. Lancet Neurology, The, 2011, 10, 471-480.	10.2	415
22	Vascular imprints of neuronal activity: Relationships between the dynamics of cortical blood flow, oxygenation, and volume changes following sensory stimulation. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14826-14831.	7.1	407
23	Atorvastatin Upregulates Type III Nitric Oxide Synthase in Thrombocytes, Decreases Platelet Activation, and Protects From Cerebral Ischemia in Normocholesterolemic Mice. Stroke, 2000, 31, 2442-2449.	2.0	359
24	Decrease in parietal cerebral hemoglobin oxygenation during performance of a verbal fluency task in patients with Alzheimer's disease monitored by means of near-infrared spectroscopy (NIRS) â€“ correlation with simultaneous rCBF-PET measurements. Brain Research, 1997, 755, 293-303.	2.2	356
25	Pericytes in capillaries are contractile in vivo, but arterioles mediate functional hyperemia in the mouse brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22290-22295.	7.1	349
26	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. British Journal of Pharmacology, 2020, 177, 3617-3624.	5.4	326
27	Bench to Bedside: The Quest for Quality in Experimental Stroke Research. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1465-1478.	4.3	319
28	Good Laboratory Practice. Stroke, 2009, 40, 221-3.	2.0	292
29	Capillary perfusion of the rat brain cortex. An in vivo confocal microscopy study.. Circulation Research, 1994, 75, 55-62.	4.5	286
30	Evidence for the Efficacy of NXY-059 in Experimental Focal Cerebral Ischaemia Is Confounded by Study Quality. Stroke, 2008, 39, 2824-2829.	2.0	279
31	Hypoxia-Induced Stroke Tolerance in the Mouse Is Mediated by Erythropoietin. Stroke, 2003, 34, 1981-1986.	2.0	277
32	Increased Formation of Reactive Oxygen Species after Permanent and Reversible Middle Cerebral Artery Occlusion in the Rat. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 196-205.	4.3	274
33	DNA Methyltransferase Contributes to Delayed Ischemic Brain Injury. Journal of Neuroscience, 2000, 20, 3175-3181.	3.6	274
34	Mechanisms of stroke protection by physical activity. Annals of Neurology, 2003, 54, 582-590.	5.3	273
35	Rosuvastatin, a new HMG-CoA reductase inhibitor, upregulates endothelial nitric oxide synthase and protects from ischemic stroke in mice. Brain Research, 2002, 942, 23-30.	2.2	270
36	Pathophysiology of Stroke: Lessons from Animal Models. Metabolic Brain Disease, 2004, 19, 151-167.	2.9	270

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37	Nitric Oxide Scavenging by Hemoglobin or Nitric Oxide Synthase Inhibition by N-Nitro-L-Arginine Induces Cortical Spreading Ischemia When K+ Is Increased in the Subarachnoid Space. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 978-990.	4.3	267
38	Tolerance Against Ischemic Neuronal Injury Can Be Induced by Volatile Anesthetics and Is Inducible NO Synthase Dependent. Stroke, 2002, 33, 1889-1898.	2.0	266
39	Role of glial cells in cerebral ischemia. Glia, 2005, 50, 281-286.	4.9	259
40	Attenuated Stroke Severity After Prodromal TIA. Stroke, 1999, 30, 1851-1854.	2.0	247
41	Neogenesis of cerebellar Purkinje neurons from gene-marked bone marrow cells in vivo. Journal of Cell Biology, 2001, 155, 733-738.	5.2	247
42	Improving Outcome after Stroke: Overcoming the Translational Roadblock. Cerebrovascular Diseases, 2008, 25, 268-278.	1.7	237
43	Stroke-induced immunodepression and post-stroke infections: Lessons from the preventive antibacterial therapy in stroke trial. Neuroscience, 2009, 158, 1184-1193.	2.3	236
44	Neuroprotective role of astrocytes in cerebral ischemia: Focus on ischemic preconditioning. Glia, 2005, 50, 307-320.	4.9	234
45	Angiotensin AT2 receptor protects against cerebral ischemiaâ€induced neuronal injury. FASEB Journal, 2005, 19, 1-25.	0.5	234
46	Preventive Antibacterial Therapy in Acute Ischemic Stroke: A Randomized Controlled Trial. PLoS ONE, 2008, 3, e2158.	2.5	227
47	Mild Cerebral Ischemia Induces Loss of Cyclin-Dependent Kinase Inhibitors and Activation of Cell Cycle Machinery before Delayed Neuronal Cell Death. Journal of Neuroscience, 2001, 21, 5045-5053.	3.6	223
48	Human cerebrospinal fluid monoclonalN-methyl-D-aspartate receptor autoantibodies are sufficient for encephalitis pathogenesis. Brain, 2016, 139, 2641-2652.	7.6	223
49	Cerebral oxygenation changes in response to motor stimulation. Journal of Applied Physiology, 1996, 81, 1174-1183.	2.5	221
50	Products of hemolysis in the subarachnoid space inducing spreading ischemia in the cortex and focal necrosis in rats: a model for delayed ischemic neurological deficits after subarachnoid hemorrhage?. Journal of Neurosurgery, 2000, 93, 658-666.	1.6	221
51	Physical Activity Improves Long-Term Stroke Outcome via Endothelial Nitric Oxide Synthaseâ€"Dependent Augmentation of Neovascularization and Cerebral Blood Flow. Circulation Research, 2006, 99, 1132-1140.	4.5	220
52	Role of nitric oxide in the coupling of cerebral blood flow to neuronal activation in rats. Neuroscience Letters, 1993, 149, 43-46.	2.1	217
53	Empirical Evidence of Bias in the Design of Experimental Stroke Studies. Stroke, 2008, 39, 929-934.	2.0	214
54	Stroke induced Sarcopenia: Muscle wasting and disability after stroke. International Journal of Cardiology, 2013, 170, 89-94.	1.7	211

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55	Results of a preclinical randomized controlled multicenter trial (pRCT): Anti-CD49d treatment for acute brain ischemia. Science Translational Medicine, 2015, 7, 299ra121.	12.4	207
56	Cellular Immunodepression Preceding Infectious Complications after Acute Ischemic Stroke in Humans. Cerebrovascular Diseases, 2008, 25, 50-58.	1.7	205
57	The Hong Kong Principles for assessing researchers: Fostering research integrity. PLoS Biology, 2020, 18, e3000737.	5.6	200
58	The neurovascular unit as a selective barrier to polymorphonuclear granulocyte (PMN) infiltration into the brain after ischemic injury. Acta Neuropathologica, 2013, 125, 395-412.	7.7	192
59	Desferrioxamine Induces Delayed Tolerance against Cerebral Ischemiain Vivoandin Vitro. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 520-525.	4.3	185
60	Neuroprotective effects of atorvastatin against glutamate-induced excitotoxicity in primary cortical neurones. Journal of Neurochemistry, 2005, 92, 1386-1398.	3.9	185
61	Distinguishing between Exploratory and Confirmatory Preclinical Research Will Improve Translation. PLoS Biology, 2014, 12, e1001863.	5.6	185
62	Immune surveillance of mouse brain perivascular spaces by bloodâ€borne macrophages. European Journal of Neuroscience, 2001, 14, 1651-1658.	2.6	181
63	Endothelinâ€1 potently induces LeÃ£oâ€™s cortical spreading depression in vivo in the rat. Brain, 2002, 125, 102-112.	7.6	181
64	Pathobiology of injury after stroke: the neurovascular unit and beyond. Annals of the New York Academy of Sciences, 2012, 1268, 21-25.	3.8	180
65	Spinal cord injury-induced immune deficiency syndrome enhances infection susceptibility dependent on lesion level. Brain, 2016, 139, 692-707.	7.6	180
66	Stroke Propagates Bacterial Aspiration to Pneumonia in a Model of Cerebral Ischemia. Stroke, 2006, 37, 2607-2612.	2.0	177
67	The ARRIVE guidelines 2.0: updated guidelines for reporting animal research. Journal of Physiology, 2020, 598, 3793-3801.	2.9	177
68	Essential role of interleukin-6 in post-stroke angiogenesis. Brain, 2012, 135, 1964-1980.	7.6	174
69	Serial Analysis of Gene Expression Identifies Metallothionein-II as Major Neuroprotective Gene in Mouse Focal Cerebral Ischemia. Journal of Neuroscience, 2002, 22, 5879-5888.	3.6	173
70	Physical model for the spectroscopic analysis of cortical intrinsic optical signals. Physics in Medicine and Biology, 2000, 45, 3749-3764.	3.0	169
71	Depletion of Cultivatable Gut Microbiota by Broad-Spectrum Antibiotic Pretreatment Worsens Outcome After Murine Stroke. Stroke, 2016, 47, 1354-1363.	2.0	168
72	Autoregulation of Cerebral Blood Flow in Experimental Focal Brain Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1990, 10, 327-336.	4.3	165

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73	Increased Hypoxic Tolerance by Chemical Inhibition of Oxidative Phosphorylation: â€œChemical Preconditioningâ€. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 257-264.	4.3	157
74	Age Dependency of Changes in Cerebral Hemoglobin Oxygenation during Brain Activation: A Near-Infrared Spectroscopy Study. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 1103-1108.	4.3	155
75	Withdrawal of Statin Treatment Abrogates Stroke Protection in Mice. Stroke, 2003, 34, 551-557.	2.0	153
76	Global Cerebral Ischemia in the Rat: Online Monitoring of Oxygen Free Radical Production Using Chemiluminescence in vivo. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 929-940.	4.3	150
77	No Evidence for Early Decrease in Blood Oxygenation in Rat Whisker Cortex in Response to Functional Activation. NeuroImage, 2001, 13, 988-1001.	4.2	147
78	Differential Mechanisms of Neuroprotection by 17 Î²-Estradiol in Apoptotic versus Necrotic Neurodegeneration. Journal of Neuroscience, 2001, 21, 2600-2609.	3.6	147
79	Sulfonylureas Improve Outcome in Patients With Type 2 Diabetes and Acute Ischemic Stroke. Stroke, 2007, 38, 2526-2530.	2.0	146
80	Respiratory Chain Inhibition Induces Tolerance to Focal Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1229-1237.	4.3	145
81	Preventive Antibacterial Treatment Improves the General Medical and Neurological Outcome in a Mouse Model of Stroke. Stroke, 2004, 35, 2-6.	2.0	144
82	Endogenous neuroprotection: Mitochondria as gateways to cerebral preconditioning?. Neuropharmacology, 2008, 55, 334-344.	4.1	142
83	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. BMC Veterinary Research, 2020, 16, 242.	1.9	136
84	Spinal cord injury-induced immunodeficiency is mediated by a sympathetic-neuroendocrine adrenal reflex. Nature Neuroscience, 2017, 20, 1549-1559.	14.8	133
85	ZK200775: A phosphonate quinoxalinedione AMPA antagonist for neuroprotection in stroke and trauma. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10960-10965.	7.1	133
86	Functional neurological recovery after spinal cord injury is impaired in patients with infections. Brain, 2012, 135, 3238-3250.	7.6	132
87	Found in Translation. Stroke, 2014, 45, 1510-1518.	2.0	132
88	Results of the ICTuS 2 Trial (Intravascular Cooling in the Treatment of Stroke 2). Stroke, 2016, 47, 2888-2895.	2.0	131
89	Microvascular Changes during the Early Phase of Experimental Bacterial Meningitis. Journal of Cerebral Blood Flow and Metabolism, 1990, 10, 914-922.	4.3	129
90	Ion changes in spreading ischaemia induce rat middle cerebral artery constriction in the absence of NO. Brain, 2005, 128, 2042-2051.	7.6	129

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91	Assessment of Local Brain Activation. Advances in Experimental Medicine and Biology, 1997, , 149-153.	1.6	127
92	Body Weight After Stroke. Stroke, 2011, 42, 3646-3650.	2.0	123
93	Modeling Stroke in Mice - Middle Cerebral Artery Occlusion with the Filament Model. Journal of Visualized Experiments, 2011, , .	0.3	122
94	Induction of tolerance in rat cortical neurons: hypoxic preconditioning. FEBS Letters, 1997, 414, 117-121.	2.8	120
95	Non-invasive functional mapping of the human motor cortex using near-infrared spectroscopy. NeuroReport, 1996, 7, 1977-1981.	1.2	118
96	Visualizing Cell Death in Experimental Focal Cerebral Ischemia: Promises, Problems, and Perspectives. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 213-231.	4.3	117
97	IL-1Î² Stimulates COX-2 Dependent PGE2 Synthesis and CGRP Release in Rat Trigeminal Ganglia Cells. PLoS ONE, 2011, 6, e17360.	2.5	115
98	Nitric oxide: a modulator, but not a mediator, of neurovascular coupling in rat somatosensory cortex. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H799-H811.	3.2	114
99	High prevalence of <scp>NMDA</scp> receptor IgA/IgM antibodies in different dementia types. Annals of Clinical and Translational Neurology, 2014, 1, 822-832.	3.7	114
100	The ARRIVE guidelines 2.0: updated guidelines for reporting animal researchThe ARRIVE guidelines 2.0: updated guidelines for reporting animal research. BMJ Open Science, 2020, 44, e100115.	1.7	114
101	Pre- and post-treatment with MK-801 but not pretreatment alone reduces neocortical damage after focal cerebral ischemia in the rat. Brain Research, 1990, 527, 62-68.	2.2	111
102	Turnover of Rat Brain Perivascular Cells. Experimental Neurology, 2001, 168, 242-249.	4.1	110
103	Improved Reperfusion and Neuroprotection by Creatine in a Mouse Model of Stroke. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 452-459.	4.3	109
104	SUMO2/3 Conjugation is an Endogenous Neuroprotective Mechanism. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2152-2159.	4.3	107
105	Noninvasive Assessment of Changes in Cytochrome-c Oxidase Oxidation in Human Subjects during Visual Stimulation. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 592-603.	4.3	103
106	Circulating monocytic cells infiltrate layers of anterograde axonal degeneration where they transform into microglia. FASEB Journal, 2005, 19, 1-19.	0.5	102
107	Effects of cerebral ischemia in mice lacking DNA methyltransferase 1 in post-mitotic neurons. NeuroReport, 2001, 12, 3763-3766.	1.2	100
108	Acute pathophysiological processes after ischaemic and traumatic brain injury. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2010, 24, 495-509.	4.0	97

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109	Robust research: Institutions must do their part for reproducibility. Nature, 2015, 525, 25-27.	27.8	97
110	Increased postischemic brain injury in mice deficient in uracil-DNA glycosylase. Journal of Clinical Investigation, 2004, 113, 1711-1721.	8.2	96
111	Anti ICAM-1 (CD 54) monoclonal antibody reduces inflammatory changes in experimental bacterial meningitis. Journal of Neuroimmunology, 1995, 63, 63-68.	2.3	95
112	Induction of hypoxia inducible factor 1 by oxygen glucose deprivation is attenuated by hypoxic preconditioning in rat cultured neurons. Neuroscience Letters, 1998, 254, 117-120.	2.1	94
113	A Concerted Appeal for International Cooperation in Preclinical Stroke Research. Stroke, 2013, 44, 1754-1760.	2.0	94
114	HMG-CoA reductase inhibition causes neurite loss by interfering with geranylgeranylpyrophosphate synthesis. Journal of Neurochemistry, 2004, 89, 24-32.	3.9	93
115	Nonâ€Resolving Aspects of Acute Inflammation after Spinal Cord Injury (SCI): Indices and Resolution Plateau. Brain Pathology, 2011, 21, 652-660.	4.1	93
116	Neurotoxicity mechanisms of thioether ecstasy metabolites. Neuroscience, 2007, 146, 1743-1757.	2.3	92
117	Fighting Publication Bias: Introducing the Negative Results Section. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1263-1264.	4.3	90
118	Where Have All the Rodents Gone? The Effects of Attrition in Experimental Research on Cancer and Stroke. PLoS Biology, 2016, 14, e1002331.	5.6	90
119	The Gut Microbiome as Therapeutic Target in Central Nervous System Diseases: Implications for Stroke. Neurotherapeutics, 2016, 13, 762-774.	4.4	89
120	Cerebrovascular Vasodilation to Extraluminal Acidosis Occurs via Combined Activation of ATP-Sensitive and Ca²⁺-Activated Potassium Channels. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 1227-1238.	4.3	87
121	Long-term functional outcome in patients with acquired infections after acute spinal cord injury. Neurology, 2017, 88, 892-900.	1.1	87
122	Improving target assessment in biomedical research: the GOT-IT recommendations. Nature Reviews Drug Discovery, 2021, 20, 64-81.	46.4	86
123	Neurovascular Coupling in Rat Brain Operates Independent of Hemoglobin Deoxygenation. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 757-768.	4.3	84
124	Hyperbaric oxygenation induced tolerance against focal cerebral ischemia in mice is strain dependent. Brain Research, 2000, 871, 146-150.	2.2	83
125	International, Multicenter Randomized Preclinical Trials in Translational Stroke Research: It's Time to Act. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 933-935.	4.3	82
126	Analysis of CO ₂ Vasomotor Reactivity and Vessel Diameter Changes by Simultaneous Venous and Arterial Doppler Recordings. Stroke, 1999, 30, 81-86.	2.0	81

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127	Ischemia Triggered by Red Blood Cell Products in the Subarachnoid Space Is Inhibited by Nimodipine Administration or Moderate Volume Expansion/Hemodilution in Rats. Neurosurgery, 2002, 51, 1457-1467.	1.1	81
128	Nitric Oxide Modulates Spreading Depolarization Threshold in the Human and Rodent Cortex. Stroke, 2008, 39, 1292-1299.	2.0	80
129	Effect and Reporting Bias of RhoA/ROCK-Blockade Intervention on Locomotor Recovery After Spinal Cord Injury. JAMA Neurology, 2014, 71, 91.	9.0	80
130	Catabolic Signaling and Muscle Wasting After Acute Ischemic Stroke in Mice. Stroke, 2014, 45, 3675-3683.	2.0	79
131	Selective Neuronal Vulnerability Following Mild Focal Brain Ischemia in the Mouse. Brain Pathology, 2003, 13, 452-464.	4.1	78
132	Pharmacological Uncoupling of Activation Induced Increases in CBF and CMRO₂. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 311-322.	4.3	78
133	Neuronal gelsolin prevents apoptosis by enhancing actin depolymerization. Molecular and Cellular Neurosciences, 2004, 25, 69-82.	2.2	76
134	Increased Extracellular K ⁺ Concentration Reduces the Efficacy of N -methyl-<scp>d</scp> -aspartate Receptor Antagonists to Block Spreading Depression-Like Depolarizations and Spreading Ischemia. Stroke, 2005, 36, 1270-1277.	2.0	76
135	Mitochondrial hexokinase II (HKII) and phosphoprotein enriched in astrocytes (PEA15) form a molecular switch governing cellular fate depending on the metabolic state. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1518-1523.	7.1	76
136	A fluorescence based non-radioactive electrophoretic mobility shift assay. Journal of Biotechnology, 2000, 78, 163-170.	3.8	75
137	Near Infrared Spectroscopy in the Diagnosis of Alzheimer's Diseasea. Annals of the New York Academy of Sciences, 1996, 777, 22-29.	3.8	74
138	Cholinergic Pathway Suppresses Pulmonary Innate Immunity Facilitating Pneumonia After Stroke. Stroke, 2015, 46, 3232-3240.	2.0	74
139	Protective effects of PJ34, a novel, potent inhibitor of poly(ADP-ribose) polymerase (PARP) in in vitro and in vivo models of stroke. International Journal of Molecular Medicine, 2001, 7, 255.	4.0	73
140	Ecstasy-induced cell death in cortical neuronal cultures is serotonin 2A-receptor-dependent and potentiated under hyperthermia. Neuroscience, 2006, 139, 1069-1081.	2.3	71
141	Stroke research at a road block: the streets from adversity should be paved with metaâ€analysis and good laboratory practice. British Journal of Pharmacology, 2009, 157, 1154-1156.	5.4	71
142	Near-infrared fluorescence imaging with fluorescently labeled albumin: A novel method for non-invasive optical imaging of bloodâ€“brain barrier impairment after focal cerebral ischemia in mice. Journal of Neuroscience Methods, 2009, 180, 126-132.	2.5	71
143	Vascular Signal Transducer and Activator of Transcription-3 Promotes Angiogenesis and Neuroplasticity Long-Term After Stroke. Circulation, 2015, 131, 1772-1782.	1.6	71
144	Ischaemia triggered by spreading neuronal activation is inhibited by vasodilators in rats. Journal of Physiology, 2001, 531, 515-526.	2.9	70

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145	Olfactory Ensheathing Cell Transplantation in Experimental Spinal Cord Injury: Effect size and Reporting Bias of 62 Experimental Treatments: A Systematic Review and Meta-Analysis. PLoS Biology, 2016, 14, e1002468.	5.6	70
146	Noninvasive near Infrared Spectroscopy Monitoring of Regional Cerebral Blood Oxygenation Changes during Peri-Infarct Depolarizations in Focal Cerebral Ischemia in the Rat. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 950-954.	4.3	69
147	Inâ€vivo confocal scanning laser microscopy of the cerebral microcirculation. Journal of Microscopy, 1992, 165, 147-157.	1.8	68
148	Focoidin, a polysaccharide inhibiting leukocyte rolling, attenuates inflammatory responses in experimental pneumococcal meningitis in rats. Neuroscience Letters, 1995, 191, 1-4.	2.1	68
149	Imaging of leukocytes within the rat brain cortex in vivo. Microvascular Research, 1991, 42, 305-315.	2.5	67
150	Laminar Analysis of Cerebral Blood Flow in Cortex of Rats by Laser-Doppler Flowmetry: A Pilot Study. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 1326-1336.	4.3	67
151	Saccadic Suppression Induces Focal Hypooxygenation in the Occipital Cortex. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1103-1110.	4.3	67
152	Isoflurane induced prolonged protection against cerebral ischemia in mice: a redox sensitive mechanism?. NeuroReport, 2002, 13, 1431-1435.	1.2	66
153	Blockade of Nitric Oxide Synthesis in Rats Strongly Attenuates the CBF Response to Extracellular Acidosis. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 535-539.	4.3	65
154	Distinct Physiologic Properties of Microglia and Blood-Borne Cells in Rat Brain Slices After Permanent Middle Cerebral Artery Occlusion. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1537-1549.	4.3	65
155	CGRP Release and c-fos Expression within Trigeminal Nucleus Caudalis of the Rat following Glyceryltrinitrate Infusion. Cephalalgia, 2005, 25, 225-236.	3.9	64
156	Pneumococcal cell wall components induce nitric oxide synthase and TNF-Î± in astroglial-enriched cultures. , 1996, 16, 1-6.		63
157	Ischemia triggered by spreading neuronal activation is induced by endothelin-1 and hemoglobin in the subarachnoid space. Annals of Neurology, 2003, 54, 591-598.	5.3	62
158	Reprint: Good Laboratory Practice: Preventing Introduction of Bias at the Bench. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 221-223.	4.3	62
159	In Vivo Near-Infrared Fluorescence Imaging of Matrix Metalloproteinase Activity after Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1284-1292.	4.3	62
160	Pathophysiological interference with neurovascular coupling - when imaging based on hemoglobin might go blind. Frontiers in Neuroenergetics, 2010, 2, .	5.3	61
161	Small-molecule-induced Rho-inhibition: NSAIDs after spinal cord injury. Cell and Tissue Research, 2012, 349, 119-132.	2.9	61
162	Blocking Stroke-Induced Immunodeficiency Increases CNS Antigen-Specific Autoreactivity But Does Not Worsen Functional Outcome after Experimental Stroke. Journal of Neuroscience, 2015, 35, 7777-7794.	3.6	60

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163	Global forebrain ischaemia in the rat: Controlled reduction of cerebral blood flow by hypobaric hypotension and two-vessel occlusion. Neurological Research, 1993, 15, 128-130.	1.3	59
164	Ischemia Triggered by Red Blood Cell Products in the Subarachnoid Space Is Inhibited by Nimodipine Administration or Moderate Volume Expansion/Hemodilution in Rats. Neurosurgery, 2002, 51, 1457-1467.	1.1	59
165	Phosphatidylinositol 3-Akt-Kinase-Dependent Phosphorylation of p21Waf1/Cip1 as a Novel Mechanism of Neuroprotection by Glucocorticoids. Journal of Neuroscience, 2007, 27, 4562-4571.	3.6	59
166	Non-invasive visualization of CNS inflammation with nuclear and optical imaging. Neuroscience, 2009, 158, 1161-1173.	2.3	59
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